
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

FORM 6-K

**REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13a-16 or 15d-16
UNDER THE SECURITIES EXCHANGE ACT OF 1934**

For the month of March, 2023

Commission File Number: 001-14946

CEMEX, S.A.B. de C.V.
(Translation of Registrant's name into English)

Avenida Ricardo Margáin Zozaya #325, Colonia Valle del Campestre
San Pedro Garza García, Nuevo León, 66265, México
(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F.

Form 20-F **Form 40-F**

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

We may disclose to prospective investors certain information that has not been previously publicly reported. This report is neither an offer to sell nor a solicitation of an offer to purchase any securities. We have elected to provide the information in this report for informational purposes.

This report contains, and the reports we will file or furnish in the future may contain, forward-looking statements within the meaning of the U.S. federal securities laws. We intend these forward-looking statements to be covered by the safe harbor provisions for forward-looking statements within the meaning of the U.S. federal securities laws. In some cases, these statements can be identified by the use of forward-looking words such as “may,” “assume,” “might,” “should,” “could,” “continue,” “would,” “can,” “consider,” “anticipate,” “estimate,” “expect,” “envision,” “plan,” “believe,” “foresee,” “predict,” “potential,” “target,” “strategy,” “intend,” “aimed” or other similar terms. These forward-looking statements reflect, as of the date such forward-looking statements are made, or unless otherwise indicated, our current expectations and projections about future events based on our knowledge of present facts and circumstances and assumptions about future events. These statements necessarily involve risks and uncertainties that could cause actual results to differ materially from our expectations. Some of the risks, uncertainties and other important factors that could cause results to differ, or that otherwise could have an impact on us or our consolidated entities, include, but are not limited to:

- the impact of pandemics, epidemics or outbreaks of infectious diseases and the response of governments and other third parties, which could adversely affect, among other matters, the ability of our operating facilities to operate at full or any capacity, supply chains, international operations, availability of liquidity, investor confidence and consumer spending, as well as the availability of, and demand for, our products and services;
- the cyclical activity of the construction sector;
- our exposure to other sectors that impact our and our clients’ businesses, such as, but not limited to, the energy sector;
- availability of raw materials and related fluctuating prices of raw materials, as well as of goods and services in general, in particular increases in prices as a result of inflation;
- volatility in pension plan asset values and liabilities, which may require cash contributions to the pension plans;
- the impact of environmental cleanup costs and other remedial actions, and other liabilities relating to existing and/or divested businesses;
- our ability to secure and permit aggregates reserves in strategically located areas;
- the timing and amount of federal, state and local funding for infrastructure;
- changes in the level of spending for private residential and private nonresidential construction;
- changes in our effective tax rate;
- competition in the markets in which we offer our products and services;
- general political, social, health, economic and business conditions in the markets in which we operate or that affect our operations and any significant economic, health, political or social developments in those markets, as well as any inherent risks to international operations;
- the regulatory environment, including environmental, energy, tax, labor, antitrust, and acquisition-related rules and regulations;
- our ability to satisfy our obligations under our material debt agreements, the indentures that govern our outstanding Notes (as defined in Exhibit 1 filed herewith) and our other debt instruments and financial obligations, including our subordinated notes with no fixed maturity and other financial obligations;

- the availability of short-term credit lines or working capital facilities, which can assist us in connection with market cycles;
- the impact of our below investment grade debt rating on our cost of capital and on the cost of the products and services we purchase;
- loss of reputation of our brands;
- our ability to consummate asset sales, fully integrate newly acquired businesses, achieve cost-savings from our cost-reduction initiatives, implement our pricing initiatives for our products and generally meet our business strategy goals;
- the increasing reliance on information technology infrastructure for our sales, invoicing, procurement, financial statements and other processes that can adversely affect our sales and operations in the event that the infrastructure does not work as intended, experiences technical difficulties or is subjected to cyber-attacks;
- changes in the economy that affect demand for consumer goods, consequently affecting demand for our products and services;
- climate change, in particular reflected in weather conditions, including, but not limited to, excessive rain and snow, and disasters such as earthquakes and floods, that could affect our facilities or the markets in which we offer our products and services or from where we source our raw materials;
- trade barriers, including tariffs or import taxes and changes in existing trade policies or changes to, or withdrawals from, free trade agreements, including the United States–Mexico–Canada Agreement;
- availability and cost of trucks, railcars, barges and ships, as well as their licensed operators and drivers, for transport of our materials;
- labor shortages and constraints;
- terrorist and organized criminal activities as well as geopolitical events, such as war and armed conflicts, including the current war between Russia and Ukraine;
- declarations of insolvency or bankruptcy, or becoming subject to similar proceedings;
- natural disasters and other unforeseen events (including global health hazards such as COVID-19); and
- the other risks and uncertainties described under “Risk Factors” in this report.

Readers are urged to read this report and carefully consider the risks, uncertainties and other factors that affect our business and operations. The information contained in this report is subject to change without notice, and we are not obligated to publicly update or revise forward-looking statements after the date hereof or to reflect the occurrence of anticipated or unanticipated events or circumstances. Readers should review future reports filed or furnished by us to the U.S. Securities and Exchange Commission.

This report also includes statistical data regarding, but not limited to, the production, distribution, marketing and sale of cement, ready-mix concrete, clinker and aggregates. We generated some of this data internally, and some was obtained from independent industry publications and reports, available as of the date of this report, that we believe to be reliable sources. We have not independently verified this nor sought the consent of any organizations to refer to their reports in this report.

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, CEMEX, S.A.B. de C.V. has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

CEMEX, S.A.B. de C.V.

(Registrant)

Date: March 6, 2023

By: /s/ Rafael Garza Lozano

Name: Rafael Garza Lozano

Title: Chief Comptroller

EXHIBIT INDEX

EXHIBIT NO.

DESCRIPTION

1

Certain information with respect to CEMEX, S.A.B. de C.V. (NYSE: CX) and its direct and indirect subsidiaries.

The following summarizes certain information, including financial information, that we may disclose to prospective investors. The information set forth below updates the information contained in our annual report on Form 20-F for the year ended December 31, 2021, filed with the U.S. Securities and Exchange Commission (the “SEC”) on April 29, 2022, and the annual report filed on the aforementioned date with the Mexican securities authority (*Comisión Nacional Bancaria y de Valores*) (the “CNBV”) as required by article 33, section I, subsection (b), first numeral of the Mexican Regulation for Issuers (*Disposiciones de Carácter General Aplicables a las Emisoras de Valores y a Otros Participantes del Mercado de Valores*), and any other documents that we have filed or furnished with the SEC and should be read in conjunction therewith. Except as the context otherwise may require, references in this report to “CEMEX,” the “Company,” “we,” “us” or “our” refer to CEMEX, S.A.B. de C.V. and its consolidated entities. See note 2 to our audited consolidated financial statements for the years ended as of December 31, 2021 and 2022, and for each of the three years ended December 31, 2020, 2021 and 2022 included in the February 23 6-K for a description of our significant accounting policies including our principles of consolidation. References in this report to “\$” and “Dollars” are to United States Dollars, references to “€” are to Euros, references to “£,” “Pounds Sterling” and “Pounds” are to British Pounds, and, unless otherwise indicated, references to “Ps\$,” “Mexican Pesos” and “Pesos” are to Mexican Pesos. References to “billion” mean one thousand million. References in this report to “CPOs” are to CEMEX, S.A.B. de C.V.’s *Certificados de Participación Ordinarios* and each CPO represents two Series A shares and one Series B share of CEMEX, S.A.B. de C.V. References in this report to “ADSs” are to American Depositary Shares of CEMEX, S.A.B. de C.V. and each ADS represents ten CPOs of CEMEX, S.A.B. de C.V. References in this report to the “February 23 6-K” refer only to Exhibit 1 (CEMEX, S.A.B. de C.V. and subsidiaries—Consolidated Financial Statements) thereto.

See notes 2.7, 17.1 and 17.2 to our 2022 audited consolidated financial statements included in the February 23 6-K for a detailed description of our debt and other financial obligations. Total debt plus other financial obligations differs from the calculation of debt under our unsecured credit agreements, dated as of December 20, 2021, as amended and/or restated from time to time (the “Mexican Peso Banorte Agreement”), dated as of October 29, 2021, as amended and/or restated from time to time (the “2021 Credit Agreement”), and dated as of October 7, 2022, as amended and/or restated from time to time (the “2022 EUR Credit Agreement,” and collectively with the Mexican Peso Banorte Agreement and the 2021 Credit Agreement, the “Credit Agreements”). See “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Liquidity and Capital Resources—Our Indebtedness” for more information.

During 2022, pursuant to tender offers and other market transactions, we partially repurchased different series of our notes for an aggregate notional amount of \$1,172 million. The difference between the amount paid for such notes and the notional amount redeemed, net of transactional costs, generated a repurchase gain of \$104 million, recognized in the statement of operations for the year ended December 31, 2022. On June 8, 2021, we issued \$1,000 million of our 5.125% Subordinated Notes (the “5.125% Subordinated Notes”) with no fixed maturity. Based on International Financial Reporting Standards (“IFRS”), the 5.125% Subordinated Notes qualify as equity instruments and are classified within controlling interest stockholders’ equity. See note 21.2 to our 2022 audited consolidated financial statements included in the February 23 6-K for a detailed description of the 5.125% Subordinated Notes.

The 2022 audited consolidated financial statements included in the February 23 6-K have been prepared in accordance with IFRS, as issued by the International Accounting Standards Board (“IASB”) and audited in accordance with International Standards on Auditing (“ISAs”).

In this document, we also refer to non-IFRS measures, including “Operating EBITDA.” “Operating EBITDA” equals operating earnings before other expenses, net, plus amortization and depreciation expenses, as more fully explained in “Selected Consolidated Financial Information.” Additionally, we refer to “Operating EBITDA Margin,” which is calculated by dividing our revenues by our “Operating EBITDA.” The presentation of these non-IFRS measures is not meant to be considered in isolation or as a substitute for the 2022 audited consolidated financial results of CEMEX, S.A.B. de C.V. included in the February 23 6-K.

We have approximated certain numbers in this report to their closest round numbers or a given number of decimal places. Due to rounding, figures shown as totals in tables may not be arithmetic aggregations of the figures preceding them.

CERTAIN TECHNICAL TERMS

When used herein, the terms set forth below mean the following:

- **Aggregates** are inert granular materials, such as stone, sand, and gravel, which are obtained from land-based sources (mainly mined from quarries) or by dredging marine deposits. They give ready-mix concrete its necessary volume and add to its overall strength. Under normal circumstances, one cubic meter of fresh concrete contains two tons of gravel and sand.
- **Cement** is a binding agent which, when mixed with aggregates and water, produces either ready-mix concrete or mortar.
- **Cement mill** (also called finish mill in the United States) is a piece of equipment used to reduce the size of the materials needed for cement production, usually to microns size (1 micron is equal to 0.001 millimeters). Traditionally, cement mills have adopted the form of ball mills. Vertical roller mills, which are more effective in terms of energy consumption compared to ball mills, are being gradually introduced to our operations in the United States, Mexico, the United Kingdom, the United Arab Emirates, and other regions in which we operate.
- **Clinker** is an intermediate cement product made by sintering limestone, clay, and iron oxide in a kiln at around 1,450 degrees Celsius. One ton of clinker is used to make approximately 1.1 tons of gray portland cement.
- **Fly ash** is a combustion residue from coal-fired power plants that can be used as a non-clinker cementitious material.
- **Gray portland cement**, used for construction purposes, is a hydraulic binding agent with a traditional composition by weight of approximately 95% clinker and up to 5% of a minor component (usually calcium sulfate). Blended portland cement has lower clinker factor, usually below 90%, which results in lower carbon dioxide (“CO₂”) emissions. Both traditional and blended portland cement, when mixed with sand, stone or other aggregates and water, produce either concrete or mortar.
- **Petroleum coke (“pet coke”)** is a by-product of the oil refining coking process that can be incorporated into the cement production process as fuel, in substitution of fossil fuels such as natural gas or coal.
- **Ready-mix concrete** is a mixture of cement, aggregates, admixtures and water.
- **Slag** is the by-product of smelting ore to purify metals.
- **Tons** means metric tons. One metric ton equals 1.102 short tons.
- **Urbanization Solutions** is one of our four core businesses. It is a business that complements our value offering of products and solutions, looking to connect with the broader city ecosystem. It seeks to address urbanization challenges and provide means to all stakeholders in the construction value chain to enable sustainable urbanization by focusing on four market segments: performance materials, waste management, industrialized construction, and related services.
- **White cement** is a specialty cement used primarily for decorative purposes.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This report contains, and the reports we will file or furnish in the future may contain, forward-looking statements within the meaning of the U.S. federal securities laws and the Mexican federal securities laws, as applicable. We intend these forward-looking statements to be covered by the safe harbor provisions for forward-looking statements within the meaning of the U.S. federal securities laws. In some cases, these statements can be identified by the use of forward-looking words such as “may,” “assume,” “might,” “should,” “could,” “continue,” “would,” “can,” “consider,” “anticipate,” “estimate,” “expect,” “envision,” “plan,” “believe,” “foresee,” “predict,” “potential,” “target,” “strategy,” “intend,” “aimed” or other similar terms. These forward-looking statements reflect, as of the date such forward-looking statements are made, or unless otherwise indicated, our current expectations and projections about future events based on our knowledge of present facts and circumstances and assumptions about future events. These statements necessarily involve risks and uncertainties that could cause actual results to differ materially from our expectations. Some of the risks, uncertainties and other important factors that could cause results to differ, or that otherwise could have an impact on us or our consolidated entities, include, but are not limited to:

- the impact of pandemics, epidemics or outbreaks of infectious diseases and the response of governments and other third parties, which could adversely affect, among other matters, the ability of our operating facilities to operate at full or any capacity, supply chains, international operations, availability of liquidity, investor confidence and consumer spending, as well as the availability of, and demand for, our products and services;
- the cyclical activity of the construction sector;
- our exposure to other sectors that impact our and our clients’ businesses, such as, but not limited to, the energy sector;
- availability of raw materials and related fluctuating prices of raw materials, as well as of goods and services in general, in particular increases in prices as a result of inflation;
- volatility in pension plan asset values and liabilities, which may require cash contributions to the pension plans;
- the impact of environmental cleanup costs and other remedial actions, and other liabilities relating to existing and/or divested businesses;
- our ability to secure and permit aggregates reserves in strategically located areas;
- the timing and amount of federal, state and local funding for infrastructure;
- changes in the level of spending for private residential and private nonresidential construction;
- changes in our effective tax rate;
- competition in the markets in which we offer our products and services;
- general political, social, health, economic and business conditions in the markets in which we operate or that affect our operations and any significant economic, health, political or social developments in those markets, as well as any inherent risks to international operations;
- the regulatory environment, including environmental, energy, tax, labor, antitrust, and acquisition-related rules and regulations;
- our ability to satisfy our obligations under our material debt agreements, the indentures that govern our outstanding Notes and our other debt instruments and financial obligations, including the 5.125% Subordinated Notes and other financial obligations;
- the availability of short-term credit lines or working capital facilities, which can assist us in connection with market cycles;
- the impact of our below investment grade debt rating on our cost of capital and on the cost of the products and services we purchase;
- loss of reputation of our brands;
- our ability to consummate asset sales, fully integrate newly acquired businesses, achieve cost-savings from our cost-reduction initiatives, implement our pricing initiatives for our products and generally meet our business strategy goals;

- the increasing reliance on information technology infrastructure for our sales, invoicing, procurement, financial statements and other processes that can adversely affect our sales and operations in the event that the infrastructure does not work as intended, experiences technical difficulties or is subjected to cyber-attacks;
- changes in the economy that affect demand for consumer goods, consequently affecting demand for our products and services;
- climate change, in particular reflected in weather conditions, including, but not limited to, excessive rain and snow, and disasters such as earthquakes and floods, that could affect our facilities or the markets in which we offer our products and services or from where we source our raw materials;
- trade barriers, including tariffs or import taxes and changes in existing trade policies or changes to, or withdrawals from, free trade agreements, including the United States–Mexico–Canada Agreement;
- availability and cost of trucks, railcars, barges and ships, as well as their licensed operators and drivers, for transport of our materials;
- labor shortages and constraints;
- terrorist and organized criminal activities as well as geopolitical events, such as war and armed conflicts, including the current war between Russia and Ukraine;
- declarations of insolvency or bankruptcy, or becoming subject to similar proceedings;
- natural disasters and other unforeseen events (including global health hazards such as COVID-19); and
- the other risks and uncertainties described under and under “Risk Factors” in this report.

Readers are urged to read this report and carefully consider the risks, uncertainties and other factors that affect our business and operations. The information contained in this report is subject to change without notice, and we are not obligated to publicly update or revise forward-looking statements after the date hereof or to reflect the occurrence of anticipated or unanticipated events or circumstances. Readers should review future reports filed or furnished by us to the SEC, the CNBV and the Mexican Stock Exchange (*Bolsa Mexicana de Valores*).

This report also includes statistical data regarding, but not limited to, the production, distribution, marketing and sale of cement, ready-mix concrete, clinker and aggregates. We generated some of this data internally, and some was obtained from independent industry publications and reports, available as of the date of this report, that we believe to be reliable sources. We have not independently verified this nor sought the consent of any organizations to refer to their reports in this report.

CEMEX

We are one of the largest cement companies in the world, based on annual installed cement production capacity. As of December 31, 2022, we had 89.2 million tons of annual installed cement production capacity and our cement sales volumes in 2022 were 63.4 million tons. We estimate we are one of the largest ready-mix concrete and aggregates companies in the world with annual sales volumes of 50.1 million cubic meters and 139.2 million tons, respectively, in each case, based on our annual sales volumes in 2022. In 2022, we traded 11.8 million tons of cementitious and non-cementitious materials, in 92 countries, including 9.6 million tons of cement and clinker and 2.3 million tons of cementitious and other materials. This information does not include discontinued operations. See note 4.2 to our 2022 audited consolidated financial statements included in the February 23 6-K. CEMEX, S.A.B. de C.V. is an operating and a holding company engaged, directly or indirectly, through its operating subsidiaries, primarily in the production, distribution, marketing and sale of cement, ready-mix concrete, aggregates, clinker, other construction materials and urbanization solutions throughout the world. We also provide related services and reliable construction-related services to customers and communities and maintain business relationships in more than 50 countries throughout the world.

We operate in different parts of the world, with operations in Mexico, the United States, Europe, the Middle East, Africa and Asia (the “EMEA”) region and South America, Central America and the Caribbean (the “SCA&C”) region. We had total assets of \$26,447 million as of December 31, 2022, and an equity market capitalization of \$8,583 million as of March 3, 2023.

As of December 31, 2022, our cement production facilities were located in Mexico, the United States, the United Kingdom, Germany, Spain, Poland, the Czech Republic, Croatia, Egypt, the Philippines, the UAE, Colombia, Panama, Nicaragua, Guatemala, the Dominican Republic, Puerto Rico, Trinidad and Tobago, Jamaica and Barbados.

	As of December 31, 2022		
	Consolidated assets (in Millions of Dollars)	Number of Cement and Grinding Plants	Installed Cement Grinding Capacity (Millions of Tons Per Annum)
Mexico	\$ 3,846	15	27.3
United States ⁽¹⁾	12,623	10	14.1
EMEA		22	34.5
United Kingdom ⁽²⁾	1,393	3	3.6
France	952	—	—
Germany	452	2	3.1
Poland	341	3	3.8
Spain ⁽³⁾	616	6	7.7
Philippines	792	2	5.7
Israel	771	—	—
Rest of EMEA ⁽⁴⁾	783	6	10.6
SCA&C		13	13.2
Colombia	742	4	4.1
Panama	302	1	1.2
Caribbean TCL ⁽⁵⁾	499	3	2.9
Dominican Republic	232	1	2.4
Rest of SCA&C ⁽⁶⁾	268	4	2.6
Corporate and Other Operations	1,767	—	—
Continuing Operations	26,379	60	89.2
Assets held for sale	68	—	—
Total	26,447	60	89.2

“—” Not applicable

The above table excludes our proportional interest in the installed capacity of companies in which we hold a non-controlling interest and reflects our organizational structure as of December 31, 2022.

- (1) “Number of cement and grinding plants” and “installed cement grinding capacity” include two cement plants that are temporarily inactive with an aggregate annual installed grinding capacity of 2.0 million tons of cement.
- (2) “Number of cement and grinding plants” and “installed cement grinding capacity” include one cement plant that is temporarily inactive with an annual installed capacity of 1.0 million tons of cement.
- (3) “Number of cement and grinding plants” and “installed cement grinding capacity” include two cement plants that are temporarily inactive with an annual installed grinding capacity of 1.4 million tons of cement.
- (4) “Rest of EMEA” refers mainly to our operations in the Czech Republic, Croatia, Egypt and the UAE.
- (5) “Caribbean TCL” refers to TCL’s operations mainly in Trinidad and Tobago, Jamaica, Barbados and Guyana.
- (6) “Rest of SCA&C” refers mainly to our operations in Peru, Puerto Rico, Nicaragua, Jamaica, the Caribbean and Guatemala, excluding the operations of TCL.

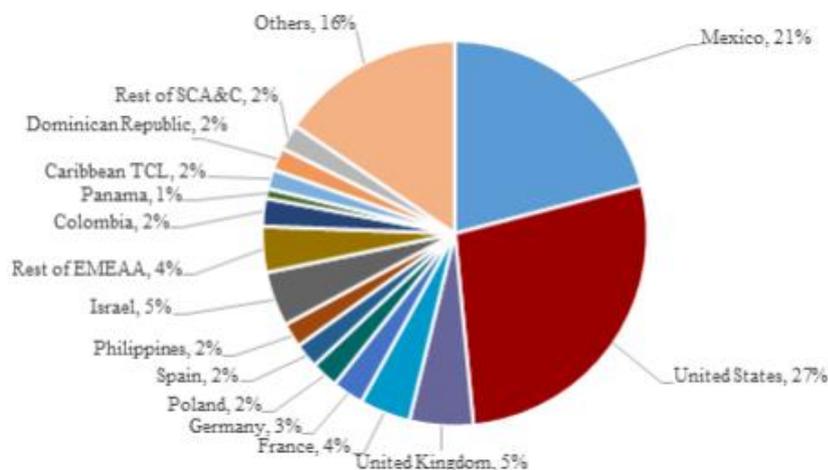
Beginning in the late 1980s, we embarked on a major geographic expansion program intended to diversify our cash flows and enter into markets whose economic cycles within the cement industry operate largely independently from Mexico and which, at the time, we believed offered long-term growth potential. We have also built an extensive network of marine and land-based distribution centers and terminals that give us marketing access around the world. As part of our strategy, we have undertaken and are undertaking actions designed to streamline and reposition our portfolio in order to enhance our diversification and achieve higher profitable growth. As such, we expect to rebalance our portfolio by focusing on the markets that we believe offer long-term growth potential and retaining those assets that we believe are best suited to grow, offering us long-term profitability. While these actions are being undertaken, we could continue to complement our strategy with organic, bolt-on investments, on a stand-alone basis or with other partners, using a metropolis-centric approach leveraging our related businesses and digital strategy. The following are our most significant acquisitions, divestitures and reconfigurations that we have announced or closed since 2020:

- On January 29, 2020, CHP announced the results of its stock rights offering pursuant to which 8,293,831,169 common shares of CHP were issued and listed on the Philippine Stock Exchange on March 4, 2020. As of December 31, 2022, after giving effect to the stock rights offering, and other repurchased in the market over the last few years, our indirect ownership of CHP's outstanding common shares had further increased to 77.90%. See "Recent Developments—Recent Developments Relating to Our Business and Operations."
- During the first six months of 2020, one of our subsidiaries in Israel acquired a ready-mix concrete products business ("Netivei Noy") from Ashtröm Industries for an amount in Shekels equivalent to \$33 million. After the conclusion of the purchase price allocation to the fair values of the assets acquired and liabilities assumed of this business, we determined goodwill of \$2 million.
- On March 6, 2020, we concluded the sale of our U.S. affiliate Kosmos Cement Company ("Kosmos"), a partnership with a subsidiary of Buzzi Unicem S.p.A. in which we held a 75% interest, to Eagle Materials Inc. for \$665 million. The share of proceeds to us from this transaction was \$499 million before transactional and other costs and expenses. The assets that were divested consisted of Kosmos' cement plant in Louisville, Kentucky, as well as related assets which include seven distribution terminals and raw material reserves. The operations of these assets in the United States for the period from January 1, 2020 to March 6, 2020, which includes a gain on sale of \$14 million, net of the proportional allocation of goodwill of \$291 million, are presented in our statements of operations, net of income tax, as part of the single line item "Discontinued operations."
- On August 3, 2020, through an affiliate in the United Kingdom, we closed the sale of certain assets to Breedon Group plc ("Breedon") for an amount in Pounds equivalent to \$230 million, including \$30 million of debt. The assets included 49 ready-mix plants, 28 aggregate quarries, four depots, one cement terminal, 14 asphalt plants, four concrete products operations, as well as a portion of our paving solutions business in the United Kingdom. After completion of this divestiture, we maintain a significant footprint in key operating geographies in the United Kingdom related to the production and sale of cement, ready-mix, aggregates, asphalt and paving solutions, among others. Our operations of these assets in the United Kingdom for the period from January 1, 2020 to August 3, 2020, which includes a loss on sale of \$57 million net of the proportional allocation of goodwill of \$47 million, are presented in our statements of operations, net of tax, as part of the single line item "Discontinued operations."
- During 2020, CEMEX España, S.A. ("CEMEX España") made a cash tender offer for any and all outstanding ordinary shares of CEMEX Latam Holdings, S.A. ("CLH") registered with the National Register of Securities and Issuers (*Registro Nacional de Valores y Emisores*) ("RNVE") and the Colombian Securities Exchange (*Bolsa de Valores de Colombia*) (the "BVC") (except for shares either owned by CEMEX España or CLH) (the "2020 CLH Tender Offer"). As of December 31, 2022, considering the effects of the 2020 CLH Tender Offer and additionally including shares of CLH purchased by us in the secondary market, we indirectly own 95.30% of all outstanding shares of CLH (which excludes shares of CLH owned by CLH). See "Recent Developments—Recent Developments Relating to Our Business and Operations."

- In January 2021, one of our subsidiaries in Israel acquired two ready-mix concrete plants from Kinneret and Beton-He'Emek for an amount in shekels equivalent to \$6 million. After the conclusion of the purchase price allocation to the fair values of the assets acquired and liabilities assumed of this business, we determined goodwill of \$5 million.
- On March 31, 2021, we sold 24 concrete plants and one aggregates quarry in France to LafargeHolcim for an amount in Euros equivalent to \$44 million. These assets were located in the Rhone Alpes region in the Southeast of France, east of our operations in Lyon, France. The operations related to these assets for the year ended December 31, 2020 and for the three-month period ended March 31, 2021 are presented in our statements of operations, net of income tax, as part of the single line item "Discontinued operations."
- On July 9, 2021, we announced that we concluded the sale agreed in March 2019 of our white cement business, except for Mexico and the U.S., to Çimsa Çimento Sanayi Ve Ticaret A.S. for a total consideration of \$155 million. Assets sold included our Buñol cement plant in Spain and white cement customer list. Our operations of these assets in Spain for the year ended December 31, 2020 and for the period from January 1, 2021 to July 9, 2021 are reported in the statements of operations, net of income tax, as part of the single line item "Discontinued operations," including in 2021 a loss on sale of \$67 million net of the proportional allocation of goodwill of \$41 million.
- On August 31, 2022, we announced that we, through certain of our subsidiaries, concluded the sale agreed in December 2021 of our operations in Costa Rica and El Salvador to affiliates of Cementos Progreso Holdings, S.L. for a total consideration of \$325 million, related to our aggregate controlling interest. The divested assets consisted of one fully integrated cement plant, one grinding station, seven ready-mix plants, one aggregate quarry, as well as one distribution center in Costa Rica and one distribution center in El Salvador. As of December 31, 2021, the assets and liabilities related to our operations in Costa Rica and El Salvador were presented in the financial statements in the line items "Assets held for sale" and "Liabilities directly related to assets held for sale." Our operations of these assets in Costa Rica and El Salvador for the years ended December 31, 2020 and 2021 and for the period from January 1, 2022 to August 31, 2022 are reported in the statements of operations, net of income tax, as part of the single line item "Discontinued operations," including in 2022 a gain on sale of \$240 million, which includes the reclassification of foreign currency translation effects accrued in equity until the disposal date.
- On December 10, 2021, through a subsidiary in Mexico, we acquired Broquers Ambiental, a sustainable waste management company for a total consideration of \$13 million. Broquers Ambiental assets include a plant for solid waste treatment for its use as alternate fuel. During 2022, considering the fair values of the assets acquired and liabilities assumed, we determined goodwill of \$4 million.
- On July 11, 2022, through a subsidiary in Germany, we completed the acquisition of a 53% stake in the German aggregates company ProStein for a total consideration of \$21 million. The investment expands our aggregates business in the region and we estimate that it increases the life of aggregates reserves for our operations in Central Europe for at least the next 25 years. The majority stake in ProStein's assets adds a full range of fine and hard aggregates to our aggregates portfolio. In addition to supplying the greater Berlin area, the additional capacity can supply several urban centers in Poland and the Czech Republic. ProStein's assets include six active hardstone plants and six construction, demolition, and excavation waste ("CDEW") recovery sites. As of December 31, 2022, based on the preliminary valuation of the fair values of the assets acquired and liabilities assumed, we have not determined any goodwill.
- On October 25, 2022, we created a partnership with Advent International ("Advent"). As part of the partnership we sold to Advent a 65% stake in Neoris N.V. ("Neoris") for a total consideration of \$119 million. While surrendering control to Advent, we retain an approximate 35% stake and remain as a key strategic partner and customer of Neoris. Our retained an approximate 35% in Neoris was remeasured at fair value at the date of loss of control, is subsequently accounted for under the equity method and is presented in the line item "Investments in associates and joint ventures. Neoris' results for the years ended December 31, 2020 and 2021 and for the period from January 1 to October 25, 2022 are reported in the statements of operations, net of income tax, in the single line item "Discontinued operations," including in 2022 a gain on sale of \$117 million, net of the reclassification of foreign currency translation effects accrued in equity until the date of loss of control.

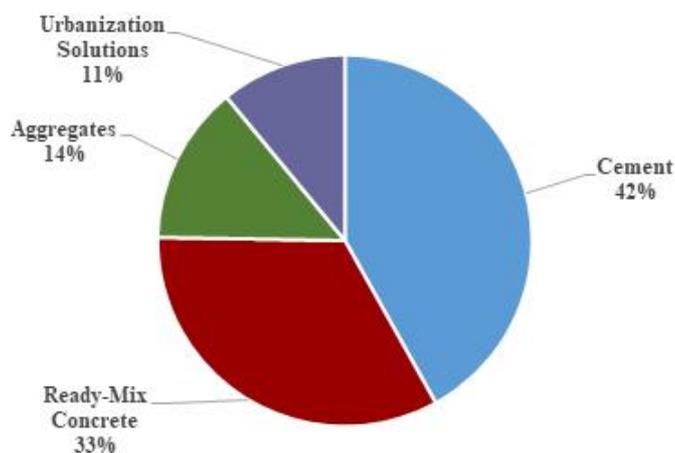
Geographic Breakdown of Revenues by Reportable Segment for the Year Ended December 31, 2022

The following chart indicates the geographic breakdown of our revenues by reportable segment, before eliminations resulting from consolidation, for the year ended December 31, 2022:



Breakdown of Revenues by Line of Business for the Year Ended December 31, 2022

The following chart indicates the breakdown of our revenues by line of business, before other revenues and eliminations resulting from consolidation, for the year ended December 31, 2022:



Coverage Ratio ⁽¹⁾	For the Year Ended December 31,	
	2021 ⁽¹⁾	2022 ⁽¹⁾
	(2)	
	5.99x	6.27x

- (1) Under the Credit Agreements, coverage ratio is calculated by dividing Consolidated EBITDA by the financial expenses for the last twelve months as of the calculation date. For the years ended December 31, 2021 and 2022, in our statements of operations, financial expense under IFRS does not include coupon payments of our 5.125% Subordinated Notes of \$30 million and \$54 million, respectively. See note 21.2 to our 2022 audited consolidated financial statements included in the February 23 6-K. Our coverage ratio is calculated and presented because it is used to measure our performance under certain of our financing agreements. Consolidated EBITDA and such ratio are non-IFRS measures and should not be considered as indicators of our financial performance as alternatives to cash flows, as measures of liquidity or as being comparable to other similarly titled measures of other companies. Under IFRS, while there are line items that are customarily included in statements of operations prepared pursuant to IFRS, such as revenues, operating costs and expenses and financial revenues and expenses, among others, the inclusion of certain subtotals, such as operating earnings before other expenses, net, and the display of such statement of operations varies significantly by industry and company according to specific needs. Our Consolidated EBITDA may not be comparable to similarly titled measures reported by other companies due to potential differences in the method of calculation. Consolidated EBITDA is reconciled below to cash flows provided by operating activities from continuing operations.
- (2) In June 2021, CEMEX redeemed all series of its outstanding Perpetual Debentures. For the year ended December 31, 2021, in the statements of operations, financial expense under IFRS does not include coupon payments of the Perpetual Debentures issued by consolidated entities of \$11 million. See note 21.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

	For the Year Ended December 31,	
	2021	2022
	(In millions of Dollars)	
Reconciliation of Cash flows provided by operating activities from continuing operations to Consolidated EBITDA		
Cash flows provided by operating activities from continuing operations	\$ 2,500	\$ 2,150
Plus/minus:		
Changes in working capital, excluding income taxes	143	390
Depreciation and amortization of assets	(1,120)	(1,120)
Other items, net	196	141
Operating earnings before other expenses, net	1,719	1,561
Plus:		
Depreciation and amortization of assets	1,120	1,120
Consolidated EBITDA	<u>2,839</u>	<u>2,681</u>

Debt Information

The following table provides certain information with respect to our debt as of December 31, 2022.

CEMEX—Consolidated as of December 31, 2022

Total debt plus other financial obligations, excluding the 5.125% Subordinated Notes ⁽¹⁾	\$8,825 million (principal amount \$8,870 million, excluding deferred issuance costs)
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- (1) Total debt plus other financial obligations includes our current debt, non-current debt, and other current and non-current financial obligations, which include: (a) lease contracts as per IFRS 16 and (b) liabilities secured with accounts receivable. See notes 17.1 and 17.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

RECENT DEVELOPMENTS

Recent Developments Relating to Our Indebtedness

- On February 8, 2023, CEMEX announced that all our Receivables Financing Agreements are now linked to CEMEX's Sustainability-Linked Financing Framework (as described herein), which is aligned to our sustainability goals. The Sustainability-Linked Financing Framework references three climate action key performance indicators: (i) net CO₂ emissions per ton of cementitious material; (ii) power consumption from clean energy sources in cement; and (iii) the alternative fuels rate. The annual performance in these metrics may result in an adjustment of the interest rate margin paid under these programs. These programs amount to approximately \$750 million and are used in our operations in Mexico, the United States, the United Kingdom and France.
- During January 2023, commitments were increased by \$440 million, mainly due to \$410 million from the revolving credit facility pursuant to the 2021 Credit Agreement and \$30 million from foreign exchange conversion effects mainly due to Euro appreciation. During February 2023, commitments under the revolving credit facility were subsequently decreased by \$50 million. As of the date of this report, we are in compliance with the applicable limitations and restrictions contained in the Credit Agreements.

Recent Developments Relating to CEMEX, S.A.B. de C.V.'s Shareholders' Meeting

On February 13, 2023, CEMEX, S.A.B. de C.V. filed with the SEC and the BMV the notice and agenda, and supplemental information for its 2023 Ordinary General Shareholders' Meeting (the "AGM"), which is scheduled to take place in the city of Monterrey, Nuevo Leon, Mexico on March 23, 2023. The aforementioned documents described the topics to be discussed and voted during the AGM, providing additional context for the items in the agenda.

On February 23, 2023, CEMEX, S.A.B. de C.V. filed with the SEC and the BMV the list of documents to be proposed for approval by its shareholders at the AGM. The list of documents includes, among others: (i) the proposal for the appointment of the members of CEMEX, S.A.B. de C.V.'s Board of Directors, which will be voted on an individual basis; (ii) the proposal for the appointment of the members of the Audit Committee, the Corporate Practices and Finance Committee and the Sustainability, Climate Action, Social Impact, and Diversity Committee, as well as their respective presidents and secretaries, which will be voted on an individual basis, as opposed to on a "group slate" basis as it occurred in previous meetings; (iii) the proposal to set, from March 23, 2023 to the date of the next CEMEX, S.A.B. de C.V. ordinary general shareholders' meeting, the compensation, as honoraria, for each appointed member of CEMEX, S.A.B. de C.V.'s Board of Directors for each meeting they attend, and the compensation, as honoraria, for each member of the Audit Committee, the Corporate Practices and Finance Committee, and the Sustainability, Climate Action, Social Impact, and Diversity Committee, for each committee meeting they attend; and (iv) the proposal to set the amount of \$500 million or its equivalent in Mexican Pesos as the maximum amount of resources that during fiscal year 2023 (until the next ordinary general shareholders' meeting of CEMEX, S.A.B. de C.V. is held in 2024), CEMEX, S.A.B. de C.V. may use for the acquisition of its own shares directly or through securities that represent such shares. No declaration and payment of dividends by CEMEX, S.A.B. de C.V. was included in the call notice and agenda for the AGM.

Recent Developments Relating to Our Business and Operations

- On January 24, 2023, through a subsidiary of ours, we signed a definitive agreement for the purchase of the assets of Atlantic Minerals Limited in Newfoundland, Canada, consisting of a construction and chemical aggregates quarry and port operations for a price of \$75 million. Subject to the consummation of the asset purchase, with this investment, we intend to secure a new long-term aggregates reserve mainly for our extensive Florida operations and the U.S. east coast, as well as a source for chemical-grade stone serving a broader geographic footprint. The closing of this transaction is subject to the satisfaction of certain customary conditions, including consent from government agencies. We expect to finalize this acquisition at the end of the first quarter of 2023 or soon thereafter.
- On January 30, 2023, through a subsidiary of ours, we acquired a 51% ownership interest in Israel-based SHTANG Recycle LTD, a CDEW recycling company, for \$13 million. As of the date of this report, CEMEX believes that the acquisition aligns with our strategy to strengthen our business in developed markets through bolt-on acquisitions in businesses with strong circular and sustainable attributes. SHTANG has been awarded a 13-year license to build and operate a state-of-the-art CDEW recycling facility that is expected to be capable of processing approximately 600,000 tons of waste per year. The CDEW will be used by our Regenera business as raw materials for aggregate production.
- On February 3, 2023, the Colombian Financial Superintendency (*Superintendencia Financiera de Colombia*) (the "SFC") authorized CEMEX España to commence a public delisting tender offer (the "Delisting CLH Offer") to acquire a minimum of one ordinary share and a maximum of 26, 281,913 ordinary shares of CLH registered with the RNVE and the BVC. The period to tender CLH shares under the Delisting CLH Offer concluded on February 28, 2023, with the final results of the Delisting CLH Offer being confirmed on March 3, 2023. As a result of the Delisting CLH Offer, we expect to increase our interest to 99.5% of CLH (excluding shares owned by CLH) and to cancel the registry of CLH in the RNVE and delist CLH's shares from the BVC. The total consideration that we expect to pay as a result of the Delisting CLH Offer is not expected to exceed \$25 million. We currently expect that CLH could be delisted from the BVC before the end of April 2023. Additionally, we expect legal actions from minority shareholders of CLH that believe the Delisting CLH Offer breached their rights. However, as of the date of this report, CEMEX believes any such legal actions would not be adversely resolved against us, but if adversely resolved, we believe this would not have a material adverse impact on our operating results, liquidity or financial position. See "Risk Factors—Risks Relating to Our Business and Operations—We are subject to restrictions and reputational risks resulting from non-controlling interests held by third parties in our consolidated subsidiaries. As of the date of this report, we control four publicly listed companies, where this risk is heightened" for more information.

- On January 25, 2023, in Manila, Philippines, CEMEX Asian South East Corporation (“CASEC”), an indirect subsidiary of CEMEX, filed a Tender Offer Report on Form 19-1 with the Securities and Exchange Commission of the Philippines (the “PSEC”) and the Philippine Stock Exchange, pursuant to Rule 19 of the Securities Regulation Code of the Philippines, in connection with its intention to conduct a voluntary tender offer (the “CHP Tender Offer”) to acquire a minimum of one and a maximum of 1,614,000,000 common shares of CHP, which, if successful, would not cause CASEC to own 90% or more of CHP’s outstanding common shares. The tender offer period commenced on February 16, 2023, and shall last for a period of at least 20 business days and may be extended subject to the PSEC’s prior approval. Payment of the net proceeds of the validly tendered shares is expected to take place on or around March 30, 2023 in the Philippines. As of the date of this report, because the results of the CHP Tender Offer are not known, we are able to calculate the consideration to be paid. However, the total consideration that we expect to pay as a result of the CHP Tender Offer should not exceed 2,098.20 million Philippine Pesos (\$37.68 million as of December 31, 2022, based on an exchange rate of 55.67 Philippine Pesos to \$1.00).
- On March 1, 2023, we announced that on February 28, 2023, Sustainalytics updated its second-party opinion to CEMEX’s Green Financing Framework (as described herein), confirming that it aligns with Green Bond Principles 2021, the Green Loan Principles 2021, and the Transition Finance Handbook 2020.

Recent Developments Relating to Our Regulatory Matters and Legal Proceedings

Environmental Matters

Mexico

The trial period of the Emissions Trading System, in which CEMEX participated, ended on December 31, 2022. During a conference on climate change, the Mexican government presented the contribution determinations, increasing the national greenhouse gas reduction goal from 22% to 35% in 2030, with respect to its baseline. The Emissions Trading System in Mexico is expected to begin as soon as 2024.

Tax Matters

Spain

Tax Assessment for the years 2006 to 2009

On January 18, 2023, the admission section of the Spanish Supreme Court, considering the annulment recourse accepted in December 2022, approved CEMEX España’s cassation appeal project to be analyzed by the Spanish Supreme Court. CEMEX will file the applicable recourse before the Spanish Supreme Court. See “Business—Regulatory Matters and Legal Proceedings—Tax Matters—Spain—Tax Assessment for the years 2006 to 2009.”

Other Legal Proceedings

Egypt Share Purchase Agreement

On January 14, 2023, the High Constitutional Court determined that Law 32/2014 is constitutionally compliant. This determination would allow CEMEX to challenge the legal standing of all current lawsuits and protect CEMEX’s investment in Egypt. As a result of the determination made by the High Constitutional Court, the two pending cases were resolved in favor of CEMEX on February 23, 2023. The plaintiffs have 60 days from the date of the resolution to file an appeal. If the plaintiffs fail to appeal this resolution within the established deadline, these proceedings will be closed. See “Business—Regulatory Matters and Legal Proceedings—Other Legal Proceedings—Egypt Share Purchase Agreement” for more information.

RISK FACTORS

We are subject to various risks mainly resulting from changing economic, environmental, political, industry, business, regulatory, financial and climate conditions, as well as risks related to ongoing legal proceedings and investigations. The following risk factors are not the only risks we face, and any of the risk factors described below could significantly and adversely affect our business, liquidity, results of operations or financial condition, as well as, in certain instances, our reputation.

Risk Factor Summary

Risks Relating to Our Business and Operations

- Economic conditions, including inflation, in countries where we operate and in other regions or countries may adversely affect our business, financial condition, liquidity and results of operations.
- The war between Russia and Ukraine may have a material adverse effect on our business, financial condition, liquidity and results of operation.
- High energy and fuel costs may have a material adverse effect on our operating results.
- We are subject to restrictions and reputational risks resulting from non-controlling interests held by third parties in our consolidated subsidiaries. As of the date of this report, we control four publicly listed companies, where this risk is heightened.
- Our use of derivative financial instruments could negatively affect our net income and liquidity, especially in volatile and uncertain markets.
- Political, social and geopolitical events, possible changes in public policies and other risks in some of the countries where we operate, which are inherent to the operations of an international company, could have a material adverse effect on our business, financial condition, liquidity and results of operations.
- Complications in relationships with local communities may adversely affect our business continuity, reputation, liquidity and results of operations.
- We are increasingly dependent on information technology and our systems and infrastructure, as well as those provided by third-party service providers, face certain risks, including cyber-security risks.
- We may fail to secure certain materials required to run our business.
- We may not be able to realize the expected benefits from any acquisitions or joint ventures, some of which may have a material impact on our business, financial condition, liquidity and results of operations. Any failure to realize expected benefits from the bolt-on acquisitions of our business strategy heightens this risk.
- The introduction of or failure to introduce substitutes or alternative forms of cement, ready-mix concrete or aggregates into the market and the development of or failure to develop new construction techniques and technologies could have a material adverse effect on our business, financial condition, liquidity and results of operations.
- We operate in highly competitive markets with numerous players employing different competitive strategies and if we do not compete effectively, our revenues, market share and results of operations may be affected.

- A substantial amount of our total assets consists of intangible assets, including goodwill. We have recognized charges for goodwill impairment in the past and in 2022, and if market or industry conditions deteriorate further, additional impairment charges may be recognized.
- Activities in our business can be hazardous and can cause injury to people or damage to property in certain circumstances.
- Our operations and ability to source products and materials can be affected by adverse weather conditions and natural disasters, including climate change.
- We could be adversely affected by any significant or prolonged disruption to our production facilities.
- Labor activism and unrest, or failure to maintain satisfactory labor relations, could adversely affect our results of operations.
- Our insurance coverage may not cover all the risks to which we may be exposed.
- Our success depends on the leadership of CEMEX, S.A.B. de C.V.'s board of directors and on key members of our executive management team and the availability of a specialized workforce.
- Future pandemics and epidemics, such as the COVID-19 pandemic, could materially adversely affect our financial condition and results of operations.

Risks Relating to Our Indebtedness and Certain Other Obligations

- The Credit Agreements, the indentures governing our outstanding Notes and our other debt agreements and/or instruments contain several restrictions and covenants. Our failure to comply with such restrictions and covenants or any inability to capitalize on business opportunities or refinance our debt resulting from them could have a material adverse effect on our business and financial conditions.
- The elimination of the London Inter-Bank Offered Rate (“LIBOR”) after June 2023 may affect our financial results.
- We have a substantial amount of debt and other financial obligations. If we are unable to secure refinancing on favorable terms or at all, we may not be able to comply with our payment obligations upon their maturity. Our ability to comply with our principal maturities and financial covenants may depend on us implementing certain strategic initiatives, including, but not limited to, making asset sales, and there is no assurance that we will be able to implement any such initiatives or execute such sales, if needed, on terms favorable to us or at all.
- We may not be able to generate sufficient cash to service our indebtedness or satisfy our short-term liquidity needs, and we may be forced to take other actions to do so, which may not be successful.
- CEMEX, S.A.B. de C.V.'s ability to repay debt and pay dividends is highly dependent on our subsidiaries' ability to transfer income and dividends to us. As of the date of this report, we control four publicly listed companies, where this risk is heightened.
- We have to service part of our debt and other financial obligations denominated in Dollars and Euros with revenues generated in Mexican Pesos or other currencies, as we do not generate sufficient revenue in Dollars and Euros from our operations to service all our debt and other financial obligations denominated in Dollars and Euros. This could adversely affect our ability to service our obligations in the event of a devaluation or depreciation in the value of the Mexican Peso, or any of the other currencies of the countries in which we operate, compared to the Dollar and Euro. In addition, our consolidated reported results and outstanding indebtedness are significantly affected by fluctuations in exchange rates between the Dollar (our reporting currency) vis-à-vis the Mexican Peso and other significant currencies within our operations.
- Increases in liabilities related to our pension plans could adversely affect our results of operations.

Risks Relating to Regulatory and Legal Matters

- We are subject to the laws and regulations of the countries where we operate and do business and non-compliance, any material changes in such laws and regulations and/or any significant delays in assessing the impact and/or adapting to such changes may have an adverse effect on our business, financial condition, liquidity and results of operations.
- We or our third-party providers may fail to maintain, obtain, or renew or may experience material delays in obtaining requisite governmental or other approvals, licenses and permits for the conduct of our business.
- We are subject to litigation proceedings, including, but not limited to, government investigations relating to corruption and antitrust proceedings, that could harm our business and our reputation.
- We are subject to anti-corruption, anti-bribery, anti-money laundering, antitrust, anti-boycott, economic sanctions, trade embargoes, and export control laws and regulations in the countries in which we operate, a considerable number of which are considered high-risk countries. Any violation of any such laws or regulations could have a material adverse impact on our reputation, results of operations and financial condition.
- Certain tax matters may have a material adverse effect on our cash flow, financial condition and net income, as well as on our reputation.
- Our operations are subject to environmental laws and regulations that are increasingly stringent.
- It may be difficult to enforce civil liabilities against us or the members of CEMEX, S.A.B. de C.V.'s board of directors, our senior management and controlling persons.

Risks Relating to Our Business and Operations

Economic conditions, including inflation, in countries where we operate and in other regions or countries may adversely affect our business, financial condition, liquidity and results of operations.

The economic conditions in some of the countries where we operate have had and may continue to have a material adverse effect on our business, financial condition, liquidity and results of operations worldwide. Our results of operations are highly dependent on the results of our operating subsidiaries worldwide, including those in the United States, Mexico, EMEA and SCA&C.

For a geographic breakdown of our revenues for the year ended December 31, 2022, see “Geographic Breakdown of Revenues by Reportable Segment for the Year Ended December 31, 2022.”

As of the date of this report, we believe that the main risk factors for the global economy and the countries where we operate include, but are not limited to: (i) monetary policies to reduce inflation could diverge from the optimal stance, increasing the risk of a recession or high inflation; (ii) policy paths in the largest economies could continue to diverge, leading to further Dollar appreciation with negative cross-border effects; (iii) energy and food price shocks might cause inflation to persist for longer and weigh on investment and productivity growth, raising additional roadblocks in the recovery path; (iv) global tightening of financing conditions could trigger widespread emerging market debt distress; (v) reduction in gas supplies from Russia or an escalation of the Russia-Ukraine war could depress output of gas in Europe; (vi) a resurgence in COVID-19 or any related COVID-19 strain, or new pandemics or epidemics, might further hinder growth; (vii) the rapid growth of cryptocurrencies without clear regulation could lead to financial instability with negative effects for the global economy; (viii) a worsening of China's poverty sector crisis could spill over to the domestic banking sector and weigh heavily on the country's growth, with negative cross-border effects; (ix) an increase in the spread and destructiveness of cyberattacks involving critical infrastructure could further delay the recovery of the global economy, particularly as teleworking and automation increase; (x) geopolitical risks like fragmentation could impede trade and capital flows, further hindering climate policy cooperation; and (xi) other geopolitical risks like the escalation of social unrest or more adverse climate shocks.

Since the beginning of 2022, inflation, as measured by the consumer price index has increased in advanced and emerging market economies, reached record highs in Europe and in the United States, driven mainly by supply chain issues (including input shortages, labor constraints, and rising commodity prices), an excess demand for goods and services and, since March 2022, a significant increase in energy and food prices, in part due to the war in Ukraine.

In this context, central banks worldwide have increased interest rates to try and reduce persistent high inflation, anchor inflation expectations and, in many cases, protect their own currencies from potential depreciation and market turmoil. Although inflation in 2023 is expected to be lower than in 2022, we cannot rule out other energy or food price shocks that could cause persistent inflation for longer. This environment of high inflation has caused, for the first time in years, a current account deficit in Europe, which could damage the value of the Euro if this situation persists.

High inflation can deteriorate economic conditions in the countries where we operate and has caused and may continue to cause a rise in the costs of manufacturing our products, as well as an increase in related expenses, such as freight related expenses. Furthermore, our operations, mainly those in the United States and Europe, have historically not experienced inflationary pressures, and thus there is no assurance that they will be well-prepared to cope with them. Inflation and its related effects could have a material adverse effect on our business, financial condition, liquidity, and results of operations. See “—High energy and fuel costs may have a material adverse effect on our operating results” for information on how energy and fuel costs affect the costs of manufacturing our products and related expenses.

On the other hand, central banks increasing interest rates to tighten monetary policy could fail to reduce inflation in the short term and be inclined to keep interest rates higher for longer, potentially causing deep damage to their economies (affecting the investment capacity of consumers and enterprises and damaging the purchasing power of consumers due to higher loan payments, causing governments to issue debt), enlarging and deepening a potential upcoming recession in Europe or the United States with potential spillovers worldwide. This global tightening of financing conditions could also trigger widespread emerging market debt distress, and could affect debt sustainability not only in emerging economies but also in developed countries with high debt levels. In addition, in Europe, the decision of the European Central Bank to reduce their balance sheet from March 2023 onwards could cause a credit spread crisis in the European periphery. This high interest rate environment could also limit our ability to access capital at reasonable terms or at all, and thus have a material adverse effect on our business, financial condition, liquidity, and results of operations.

Emerging markets and developing economies with significant foreign currency denominated-debt and financing needs could be particularly exposed and affected from the resulting effects of an environment of sustained higher interest rate such as capital outflows, exchange rate depreciations, shifts in investor sentiment and increasing borrowing costs, all of which lead to adverse growth outcomes. Similarly, large-scale corporate debt defaults or restructuring could reverberate widely. A substantial portion of our operations are located in developing countries which have shown to be negatively affected by capital outflows in the past and have volatile currency values. In the event that one or more of these risks materialize, demand for our products and services could decrease significantly due to a general deterioration in the economic conditions of these countries and/or our revenues and available resources in local currencies could depreciate significantly, which could limit our ability to satisfy our indebtedness and other obligations and/or incur expenditures and make investments in hard currency necessary to conduct our business, all of which could have a material adverse effect on our business, financial condition, liquidity, and results of operations. See “Geographic Breakdown of Revenues by Reportable Segment for the Year Ended December 31, 2022” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Liquidity and Capital Resources—Our Indebtedness.”

In the context of high inflation, high interest rates and low economic growth, social unrest could easily surge in countries where consumers’ purchasing power has been significantly damaged. Notwithstanding governmental plans to encourage economic growth, there is a risk that the lack of economic resources (like high debt, fiscal deficits and lack of access to financing), geopolitical tensions and political instability could make it difficult. Further intensification of social unrest could also damage economic sentiment and weigh on the economic recovery from the COVID-19 pandemic.

Climate change, one of the main causes of the more frequent and intense weather-related disasters, already has had visible immediate impacts, with effects beyond the regions where the disasters strike. Cross-border migration pressures, financial stresses (including among creditors and insurers in countries not directly impacted by a given event), and health care burdens may rise, with implications that persist long after the event itself. Disasters caused by climate change may pose further challenges to the global recovery.

Mexico's economic recovery from the effects of the COVID-19 pandemic continued in 2022 mainly due to strong U.S. external demand, the remarkable remittance inflows and the "catch-up" momentum of domestic demand. Even though the Mexican economic activity reached its pre-pandemic levels in the third quarter of 2022, there are some sectors in which recovery is still lagging, such as the construction sector.

As of the date of this report, apart from the risks mentioned above, the Mexican economy faces other risks in the short term including, but not limited to: (i) a sharper than expected U.S. and global recession; (ii) monetary overtightening by the Mexican Central Bank due to a persistence of domestic inflationary pressures; (iii) higher pressures on public revenues and/or debt service costs might lead to the reallocation of budget funds and potential delays on non-priority infrastructure projects and housing programs; (iv) negative effects of the Mexican Peso's abrupt depreciation on public and private debt trajectories; (v) a slowdown or pause of "nearshoring" dynamics; (vi) a possible downgrade of Petróleos Mexicanos' ("PEMEX") debt rating or further capital requirements to restructure PEMEX, which could negatively affect fiscal stability and Mexico's sovereign debt rating; and (vii) the negative effects derived from uncertainty about institutional frameworks changes. Together or alone, these uncertainties and risks could have a material adverse impact on our financial condition, business and results of operations, particularly in Mexico.

In general, demand for our products and services is strongly related to construction levels and depends, in large part, on construction activity, as well as private and public infrastructure spending in the countries where we operate. Declines in the construction industry are usually correlated with declines in general economic conditions. As a result, the deterioration of economic conditions in the countries where we operate, could have a material adverse effect on our business, financial condition, liquidity and results of operations. There is no assurance that growth in gross domestic product ("GDP") of the countries where we operate will translate into an increase in demand for our products. We are subject to the effects of general global economic and market conditions beyond our control. If these conditions are challenging or deteriorate, our business, financial condition, liquidity and results of operations could be adversely affected.

The war between Russia and Ukraine may have a material adverse effect on our business, financial condition, liquidity and results of operation.

Global markets are experiencing volatility and disruption following the escalation of geopolitical tensions and the start of the war between Russia and Ukraine. In February 2022, Russia launched a full-scale military invasion of Ukraine. Although the length and impact of the ongoing military conflict is unpredictable, the conflict in Ukraine has created and could lead to further market disruptions, including significant volatility in commodity prices, credit and capital markets. After a year of conflict, hostilities continue to occur between Russia and Ukraine. As of the date of this report, comprehensive sanctions for Russian entities and officials have been enacted by the United States, the European Union (the "EU"), the United Kingdom, Switzerland, Japan, France, New Zealand, Australia, Canada, Germany and Poland, among others, mainly against Russia and Russian individuals and companies, including agreements to remove certain Russian financial institutions from the Society for Worldwide Interbank Financial Telecommunication ("SWIFT") payment system. A foreseeable peaceful resolution to this war is not expected to occur during 2023. The war is expected to have further global economic consequences, including, but not limited to, the possibility of severely diminished liquidity and credit availability, declines in consumer confidence, scarcity in certain raw materials and products, declines in economic growth, increases in inflation rates and uncertainty about economic and political stability. In addition, there is a risk that Russia and other countries supporting Russia in this conflict may launch cyber-attacks against the United States and its allies and other countries, their governments and businesses, including the infrastructure in such countries. Any of the foregoing consequences, including those we cannot yet predict, may have a material adverse effect on our business, financial condition, liquidity and results of operations.

High energy and fuel costs may have a material adverse effect on our operating results.

Energy and fuel costs represent an important part of our cost structure. The price and availability of energy and fuel are generally subject to market volatility and inflation, and have had, and may continue to have, an adverse impact on our costs and operating results. If third-party suppliers fail to provide to us the required amounts of energy or fuel under existing agreements, we may need to acquire energy or fuel at an increased cost from other suppliers to fulfill contractual commitments with third parties or for use in our operations. Governments in several countries in which we operate are working to reduce energy subsidies, introduce or tighten clean energy obligations or impose excise taxes and carbon emission caps, which could increase energy costs and have a material adverse effect on our business, financial condition, liquidity and results of operations.

Our commitment to transition to and increase the use of alternative energy sources and fuels may limit our flexibility to use energy sources and fuels that may be more cost-effective and require us to incur more in capital expenditures and investments than we currently have planned. However, if our efforts to increase our use of alternative fuels are unsuccessful, due to their limited availability, price volatility or otherwise, we would be required to use traditional fuels, which may be more expensive at any given time and increase our energy and fuel costs. Also, any such failure may cause us not to achieve the targets under our *Future in Action* climate action program and certain key performance indicators provided for in our sustainability-linked financing arrangements, which, among other adverse effects, would damage our reputation and give rise to an increase in our cost of capital. Any of this could have a material adverse effect on our business, financial condition, liquidity and results of operations. See “Business—Regulatory Matters and Legal Proceedings—Environmental Matters—Mexico” and “—Recent Developments—Recent Developments Relating to Our Regulatory Matters and Legal Proceedings—Environmental Matters—Mexico” for a description of certain changes in the laws and regulations governing the energy, electricity and hydrocarbons sectors which have been enacted or are undergoing constitutional challenges or approval procedures, and which may result in increased costs for our business, which may in turn have a material adverse effect on our business, financial condition, liquidity and results of operations. See “—Economic conditions, including inflation, in countries where we operate and in other regions or countries may adversely affect our business, financial condition, liquidity and results of operations” for more information on the current inflationary environment.

We are subject to restrictions and reputational risks resulting from non-controlling interests held by third parties in our consolidated subsidiaries. As of the date of this report, we control four publicly listed companies, where this risk is heightened.

We conduct our business mostly through subsidiaries. In some cases, third-party shareholders hold non-controlling interests in these subsidiaries. Our most important subsidiaries in which third-party shareholders held non-controlling interests as of December 31, 2022 are CLH, CHP, Trinidad Cement Limited (“TCL”) and Caribbean Cement Company Limited (“CCCL”), all of which are publicly listed companies. Various disadvantages may result from the participation of non-controlling shareholders whose interests may not be aligned with ours. Some of these disadvantages may, among other things, result in our inability to, or complicate our ability to, implement organizational efficiencies, divest or acquire assets, contribute capital to such publicly listed subsidiaries to achieve operational improvements, and transfer cash and assets from one subsidiary to another in order to allocate assets most effectively. In addition, we are also exposed to third-party shareholders initiating different actions or proceedings against us as controlling shareholders on corporate and corporate governance related matters, such as tender offer procedures, which could also harm our reputation and have an adverse effect on our business, liquidity, financial condition and results of operations.

Our use of derivative financial instruments could negatively affect our net income and liquidity, especially in volatile and uncertain markets.

We have used, and may continue to use, derivative financial instruments, mainly to manage the risk profile associated with interest rates and currency exposure of our debt, to reduce the volatility of our financing costs, to hedge the costs of fuel and other commodities and to hedge our net assets in certain currencies. However, we cannot assure you that our use of such instruments will allow us to achieve these objectives due to the inherent risks in any derivatives transaction or the risk that we will not continue to have access to such instruments at reasonable costs, or at all.

As of December 31, 2022, our derivative financial instruments consisted of Dollar/Mexican Peso foreign exchange forward and option contracts, both designated as a net investment hedge of CEMEX’s net investment in Mexican Pesos. It also included interest rate swap instruments related to bank loans, Dollar/Mexican Peso call spread option contracts negotiated to maintain the value in Dollars over revenues generated in Mexican Pesos, as well as fuel price hedging derivatives, which had an impact on our financial position. Changes in the fair value of our derivative financial instruments, not specifically designated as hedges, are reflected in our statement of operations, which could

introduce volatility in our controlling interest net income and other related ratios. As of December 31, 2021 and 2022, the aggregate notional amount under our outstanding derivative financial instruments was \$2,911 million (\$1,511 million of net investment hedge, \$1,005 million of interest rate swaps, \$250 million of foreign exchange options and \$145 million of fuel price hedging) and \$2,491 million (\$837 million of net investment hedge, \$1,018 million of interest rate swaps, \$136 million of fuel price hedging and \$500 million of foreign exchange options), respectively, with a mark-to-market valuation representing net assets of \$21 million as of December 31, 2021 and net assets of \$32 million as of December 31, 2022. See note 17.4 to our 2022 audited consolidated financial statements included in the February 23 6-K for a detailed description of our derivative financial instruments. As of December 31, 2022, CEMEX's risk of cash margin calls with respect to our existing financial derivatives is not material. However, if we enter into new derivative financial instruments, we may incur net losses and be subject to margin calls requiring a substantial amount of cash to be covered and may reduce the funds available to us for our operations or other capital needs. In addition, as with any derivative position, we assume the creditworthiness risk of the counterparty, including the risk that the counterparty may not honor its obligations to us. In addition, entering into new derivative financial instruments incurs costs, and we cannot assure you that any new derivative financial instrument that we enter into will be done so at reasonable costs or will be available to us at all.

Political, social and geopolitical events, possible changes in public policies and other risks in some of the countries where we operate, which are inherent to the operations of an international company, could have a material adverse effect on our business, financial condition, liquidity and results of operations.

As of December 31, 2022, our operations were mostly in Mexico, the United States, certain countries in the EMEAA region and the SCA&C region. For a geographic breakdown of our revenues for the year ended December 31, 2022, see "Geographic Breakdown of Revenues by Reportable Segment for the Year Ended December 31, 2022."

We are exposed to the circumstances prevalent in the countries in which we market our products and services. Like other companies with international operations, political, economic, geopolitical or social developments in the countries where we operate or elsewhere, such as elections, new governments, changes in public policy, economic circumstances, laws and/or regulations, trade policies, political agreements or disagreements, civil disturbances and a rise in violence or the perception of violence, could have a material adverse effect in the countries where we operate or on the global financial markets, and in turn on our business, financial condition, liquidity and results of operations.

Presidential, legislative, state and local elections took place in 2022 in several of the countries where we operate, including Mexico, France, Colombia, the United States, the Philippines and Barbados. In addition, future snap elections cannot be discarded. A change in federal or national government and the political party in control of the legislature in any of these countries could result in changes to the countries' economic, political or social conditions, and in changes to laws, regulations and public policies, which may contribute to economic uncertainty or adverse business conditions and could also materially impact our business, financial condition, liquidity and results of operations. Similarly, if no political party wins a clear majority in the legislative bodies of these countries, legislative gridlock and political and economic uncertainty may continue or result.

Political events and social unrest have impacted the business and economic environment in the United States and beyond. The 2022 U.S. midterm elections resulted in changes to the controlling political party in the lower chamber of the U.S. Congress and, in turn, may result in potential changes to, and delays in, the U.S. federal government's policy priorities and legislative endeavors. The new Congress could impose regulations and/or taxes reaching further than those currently in effect. We are not certain if any such regulations and/or taxes will be imposed or not; and, in the event they are imposed, if costs and expenses which may be incurred in order to comply with such regulations and/or taxes would have a material adverse effect on our business, financial condition, liquidity and results of operations. Additionally, the new Congress could suffer gridlock, for instance, in raising the U.S. government's federal debt ceiling.

In Mexico, several laws, policies and regulations issued since the beginning of the current administration, as well as certain legislative proposals, differ substantially from those in effect in previous administrations. Additionally, emission caps per industrial sector in line with Mexico's greenhouse gas emissions reduction targets are expected to come into effect in 2024. See "Business—Regulatory Matters and Legal Proceedings—Environmental Matters—Mexico" and "Recent Developments—Recent Developments Relating to Our Regulatory Matters and Legal Proceedings—Environmental Matters—Mexico" for a description of such changes in the laws and regulations governing the energy, electricity and hydrocarbons sectors which have been enacted or are undergoing constitutional

challenges, as well as a description of potential emission caps regulations in Mexico. We are not certain if such laws and regulations undergoing constitutional challenges will prevail. Additionally, an increase of “green” taxes in states where we operate is also expected. These and any other policies, laws and regulations which are further adopted could result in a deterioration of investment sentiment, political and economic uncertainty, and increased costs for our business, which may in turn have a material adverse effect on our business, financial condition, liquidity and results of operations.

In Europe, though Brexit has already materialized, there continues to be uncertainty regarding the United Kingdom’s future relationship with the European Union and other key partners around the world. This uncertainty could still have a material adverse effect on our business, financial condition, liquidity and results of operations, particularly in the United Kingdom. To mitigate any such risk, a “Brexit taskforce” has been implemented and continues to operate with the following objectives: (i) monitoring and sharing relevant public information, (ii) identifying ongoing and evolving risks and opportunities, (iii) assessing potential impacts and action plan to minimize them, (iv) following-up with affected areas, and (v) preparing an effective communication for different audiences. As of the date of this report, the Brexit taskforce has been working, aligned with United Kingdom government guidelines, on critical issues to potentially anticipate and avoid a business disruption resulting from Brexit. These issues include: (i) the new chemical regulations and the Registration, Evaluation, Authorization and Restriction of Chemicals registry requirements for imported products, (ii) identifying commercial products being placed on the market in Great Britain with the previously used “CE” (*conformité européenne*) marking that will require U.K. Conformity Assessed (“UKCA”) marking in 2022, (iii) complying with the specific tariffs on imported goods through a new Economic Operators’ Registration and Identification number applicable to all of our operation sites in the United Kingdom, and (iv) supporting our employees living in the United Kingdom which do not have citizenship status with the preparation and filing of their settlement scheme application. The United Kingdom and the European Union have reached agreements in several matters to continue diplomatic relations, such as trade and travel. The withdrawal from either party from any of the agreements may have a material adverse effect on our business, financial condition, liquidity and results of operations.

Our operations in Egypt, the UAE and Israel have experienced disruption as a result of, among other things, political instability, civil unrest, terrorism, extremism, deterioration of general diplomatic relations and changes in the geopolitical dynamics in the region. There can be no assurances that political turbulence in Israel, Egypt, Iran, Iraq, Syria, Libya, Yemen and other countries in Africa, the Middle East and Asia will abate in the future or that neighboring countries (e.g., the United Arab Emirates) will not be drawn further into conflict or experience instability. In addition, some of our operations are or may be subject to political risks, such as confiscation, expropriation and/or nationalization, as for example was the case of our past operations in Venezuela and is currently the case in Egypt. See “Business—Regulatory Matters and Legal Proceedings—Other Legal Proceedings—Egypt Share Purchase Agreement.”

Our operations are also exposed to the Israeli-Palestinian conflict. Confrontations between the Israeli Defense Force and Palestinians in the Gaza Strip have continued generating events of violence in the region. Progress on peace remains stalled, despite efforts from third parties to reach an agreement. As of the date of this report, the parties continued to portray opposite views over the contested territory and neither side is expected to make concessions in the near future. If the conflict escalates, it could have a negative impact on the geopolitics and economy of the region, which in turn could adversely affect our operations, financial condition, liquidity and results of operations. In November 2022, Israel held legislative elections to constitute the 25th congress of Israel, marking the fifth general election held in the past three years. The previous election and successive negotiations resulted in the formation of a coalition government in June 2021. Nonetheless, a bill was introduced in June 2022 to dissolve the congress and call for a new election in November 2022. Political instability related to the governmental transition and disputes within the governing coalition could have an adverse effect on our business, financial condition, liquidity, and results of operations in Israel. Increased tensions in the Middle East could pose the risk of full military action and could have a material adverse effect on our business, financial condition, liquidity and results of operations, most importantly in Israel and the UAE.

In Asia, pro-democracy protests and demands, mainly in Hong Kong, ongoing disputes between North and South Korea, as well as territorial disputes among several Southeast Asian countries and China in the South China Sea continue to be a cause for social, economic and political uncertainty and instability in the region. A major outbreak of hostilities or political upheaval in China, Hong Kong, Taiwan, North Korea, South Korea or any other Asian nation could adversely affect the global economy, which could have a material adverse effect on our business, financial condition, liquidity or results of operations.

In Latin America, discontent with politicians, corruption, poverty, and inequality have been cause for numerous protests and general social unrest. Protests have sparked throughout the region in countries such as Haiti, Colombia, Guatemala, Costa Rica, Peru and others. Furthermore, the region continues to be affected by Venezuela's economic and political crisis, which has had a major impact on the regional economy and poses an important economic, social and security risk.

Further geopolitical challenges, such as the conflict between the United States and China, could cause important disruptions in the global economic, financial markets and trade dynamics which could impact the markets in which we operate and materially and adversely affect our business, financial condition, liquidity and results of operations.

There have been terrorist attacks and ongoing threats of future terrorist attacks in countries in which we operate. We cannot assure you that there will not be new attacks or threats that will cause any damage to our operating units and facilities or locations, or harm any of our employees, including members of CEMEX, S.A.B. de C.V.'s board of directors or senior management, or lead to an economic contraction, financial markets volatility or erection of material barriers to trade in any of our markets. An economic contraction in any of the markets where we operate could affect domestic demand for our products, which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

As part of our risk governance approach, from time to time we evaluate the need to address the financial consequences of political or social risk through the purchase of insurance. As a result, we purchase certain types of political risk insurance policies for selected countries where we operate, and which are exposed to political turmoil, geopolitical issues or political uncertainty. These insurance policies are designed to offer some assistance to our financial flexibility to the extent that the specifics of a political incident could give rise to a financial liability. However, we cannot assure you that a given social or political event and possible changes in government policies will be covered by the political risk insurance policies we have in place, or that the amount of such insurance will be sufficient to offset the liability arising from such applicable events. Any such liability could have a material adverse effect on our business, financial condition, liquidity and results of operations.

These and other political, economic, social and geopolitical issues have the potential to materially and adversely impact the global economy, financial markets and the overall stability of the countries and regions in which we operate and, in turn, our business, financial condition, liquidity and results of operations.

Complications in relationships with local communities may adversely affect our business continuity, reputation, liquidity, and results of operations.

We make significant efforts to maintain good long-term relationships and continuous communication with local and neighboring communities where we operate; however, there can be no assurance that such communities will not have or will not develop interests or objectives which are different from, or even in conflict with, our objectives, which could result in legal or administrative proceedings, civil unrest, protests, negative media coverage, direct action or campaigns, including, but not limited to, requests for the government to revoke or deny our concessions, licenses or other permits to operate. Any such events could cause delays or disruptions in our operations, result in operational restrictions or higher costs, or cause reputational damage, which could materially and adversely affect our business, reputation, liquidity and results of operations. See "Business—Regulatory Matters and Legal Proceedings—Environmental Matters—Philippines Environmental Class Action."

We are increasingly dependent on information technology and our systems and infrastructure, as well as those provided by third-party service providers, face certain risks, including cyber-security risks.

We increasingly rely on a variety of information technology and cloud services, on a fully digital customer integration platform, such as CEMEX Go, and on automated operating systems to manage and support our operations, as well as to offer our products to our customers. The proper functioning of this technology and these systems is critical to the efficient operation and management of our business, as well as for the sales generated by our business. Our systems and technologies may require modifications or upgrades as a result of technological changes, growth in

our business and to enhance our business security. These changes may be costly and disruptive to our operations and could impose substantial demands on our systems and increase system outage time. Our systems and technology, as well as those provided by our third-party service providers, such as International Business Machines Corporation (“IBM”), Microsoft and HCL Technologies, among others, may be vulnerable to damage, disruption or intrusion caused by circumstances beyond our control, such as physical or electronic break-ins, catastrophic events, power outages, natural disasters, computer system or network failures, security breaches, computer viruses and cyber-attacks, including malicious codes, worms, ransomware, phishing, denial of service attacks and unauthorized access. For example, our digital solutions to improve sales, customer experience, enhance our operations and increase our business efficiencies could be impeded by such damages, disruptions or intrusions. Furthermore, while we expect to further integrate digital technologies into our operations as part of our Working Smarter digital transformation initiative and believe this is likely to assist us in fulfilling our strategic priorities, these integration efforts and the engagement of additional technology service providers and systems in our operations as part of Working Smarter could increase our exposure to these risks. See “Business—Our Strategic Priorities—Operational Improvements” and “Summary—Recent Developments—Recent Developments Relating to Our Business and Operations—Execution of Agreements relating to our Working Smarter Initiative” for more information on Working Smarter and the related technologies, service providers and systems engaged as part of this digital transformation initiative. To try to minimize such risks, we safeguard our systems and electronic information through a set of cyber-security controls, processes, and a proactive monitoring service to attend to potential breaches. In addition, we also have disaster recovery plans in case of incidents that could cause major disruptions to our business. However, these measures may not be sufficient, and our systems have in the past been subject to certain minor intrusions that did not result in a material breach or material impact to the Company, including distributed denial of service (“DDoS”) attacks, unauthorized access attempts, brute force attacks and phishing. Although, as of the date of this report, we are certified under and compliant with International Organization for Standardization (“ISO”) 27001:2013 standards for information security management systems to preserve the confidentiality, integrity and availability of data and also are certified on the Payment Card Industry (“PCI”) security standard which provides a trustful e-commerce mechanism for customers, and the majority of our cement plants received the ISO 27001 certification, we cannot assure that we will always be able to retain or renew this certification or that our systems will not be subject to certain intrusions. In a global business environment that relies on complex digital networks, cybercriminals are often outpacing a company’s ability to prevent and manage cyberthreats. The digitalization of global supply chains creates new risks as they increasingly rely on technology and other third parties.

During 2022, there was a global trend of an increase in security threats, including, but not limited to, phishing and malware/ransomware campaigns, exploitation of video collaboration vulnerabilities, among other things. Furthermore, the increase in employees working from home increased cyber risk due to inadequate security configurations of domestic (home) networks and use of non-corporate devices. As of the date of this report, we have implemented additional cybersecurity technology and controls designed to reduce such risks and mitigate the impact of such risks, but these may also not be sufficient, and we cannot assure you that intrusions will not occur.

In relation to our overall operations, particularly due to our digital transformation efforts and the implementation of CEMEX Go, our audit committee is informed of the cyber-security threats we face and is involved in approving general steps to try to mitigate any such cyber-security threats. As of December 31, 2022, CEMEX Go has more than 53,000 customers across the countries in which we do business, and through CEMEX Go we receive approximately 50% of our main product orders and process 60% of our total global sales. As of December 31, 2022, we have not detected, and our third-party service providers have not informed us of, any relevant event that has materially damaged, disrupted or resulted in an intrusion of our systems. Any significant information leakages or theft of information, or any unlawful processing of personal data, could affect our compliance with data privacy laws and make us subject to regulatory action, including substantial fines and private litigation with potentially large costs, and could damage our relationship with our employees, customers and suppliers, which could have a material adverse impact on our business, financial condition, liquidity, results of operations and prospects.

Furthermore, in June 2022, our insurance program was renewed for 12 additional months. This program includes insurance coverage that, subject to its terms and conditions, is intended to address certain costs associated with cyber incidents, network failures and data privacy-related concerns. Nevertheless, this insurance coverage may not, depending on the specific facts and circumstances surrounding an incident, cover all losses or types of claims that may arise from an incident or the damage to our reputation or brands that may result from an incident. However, any significant disruption to our systems could have a material adverse effect on our business, financial condition, liquidity and results of operations, and could also harm our reputation.

We may fail to secure certain materials required to run our business.

We increasingly use in most of our business certain by-products of industrial processes produced by third parties, such as pet coke, fly ash, slag and synthetic gypsum, among others, as well as natural resources such as water. While we are not dependent on any particular suppliers, we try to secure the supply of the required materials, products or resources through long-term renewable contracts and framework agreements, which allow us to better manage supplies. Short-term contracts are entered into in certain countries where we operate. Should existing suppliers cease operations or reduce or eliminate production of these by-products, or should for any reason any suppliers not be able to deliver to us the contractual quantities, or should laws and/or regulations in any region or country limit the access to these materials, products, reserves or resources, sourcing costs for these materials could increase significantly or require us to find alternative sources for these materials, which could have a material adverse effect on our business, financial condition, liquidity, results of operations and prospects. In particular, scarcity and quality of natural resources (such as water and aggregates reserves) in some of the countries where we operate could have a material adverse effect on our operations, costs and results of operations.

We may not be able to realize the expected benefits from any acquisitions or joint ventures, some of which may have a material impact on our business, financial condition, liquidity and results of operations. Any failure to realize expected benefits from the bolt-on acquisitions of our business strategy heightens this risk.

Our ability to realize the expected benefits from any acquisitions, joint ventures, investments or partnerships depends, in large part, on our ability to integrate acquired operations with our existing operations in a timely and effective manner or on our ability to impact financial results or operations of or properly manage, together with any partners, any joint venture business, partnership or other business where we hold an investment. These efforts may not be successful. Although we have disposed of assets in the past and may continue to do so to reduce our overall leverage and rebalance our portfolio, certain of our debt instruments restrict our ability to acquire assets and enter into joint ventures. We may in the future acquire new operations or enter into joint ventures or investments and integrate such operations or assets into our existing operations, and some of such acquisitions, joint ventures or investments may have a material impact on our business, financial condition, liquidity and results of operations. We cannot assure you that we will be successful in identifying or acquiring suitable assets in the future, or that the terms under which we may acquire any assets or enter into joint ventures in the future would be favorable to us or that we will be able to find suitable partners for our joint ventures at all.

We may also fail to achieve any anticipated cost savings from any acquisitions, joint ventures or investments. We have announced that the portfolio optimization efforts to grow Operating EBITDA that are a part of our strategic priorities are expected to include a variety of bolt-on investments, divestments and acquisitions, which included acquisitions in different geographies like France, Spain and Texas in 2021 and divestments in geographies like Costa Rica and El Salvador in 2022, and are expected to continue in 2023. Failure to realize the expected benefits from these acquisitions, if at all made, would cause us to not achieve certain of our strategic goals and, in turn, our business, financial condition, liquidity and results of operations could be materially and adversely affected.

The introduction of or failure to introduce substitutes or alternative forms of cement, ready-mix concrete or aggregates into the market and the development of or failure to develop new construction techniques and technologies could have a material adverse effect on our business, financial condition, liquidity and results of operations.

Materials such as plastic, aluminum, ceramics, glass, wood and steel can be used in construction as a substitute for cement, ready-mix concrete or aggregates. In addition, other construction techniques, such as the use of dry wall, and the integration of new technologies in the construction industry, such as 3-D printing, mini-mills and mobile plants, and changes in housing preferences could adversely impact the demand and price for our cement, ready-mix concrete and/or aggregates. Furthermore, research aimed at developing new construction techniques and modern materials and digitalizing the construction industry may introduce new products and technologies in the future that could reduce the demand for and prices of our products. Our efforts to introduce new products or products with non-traditional compositions (such as our *Vertua* family of products and those with reduced cement or clinker content introduced in 2021) or to develop and market new construction techniques and technologies (such as those that are

part of our Urbanization Solutions) are not only aimed at increasing our operating results, but are also relevant to achieve the targets of our *Future in Action* climate action program and certain key performance indicators provided for in our sustainability-linked financing arrangements. Therefore, if our efforts to introduce these products and construction techniques and technologies are unsuccessful or unprofitable, among other adverse effects, this would damage our operating results, reputation and give rise to an increase in our cost of capital. Any of this, individually or in the aggregate, could have a material adverse effect on our business, financial condition, liquidity and results of operations.

We operate in highly competitive markets with numerous players employing different competitive strategies and if we do not compete effectively, our revenues, market share and results of operations may be affected.

The markets in which we operate are highly competitive and are served by a variety of established companies with recognized brand names, as well as new market entrants and increasing imports. Companies in these markets compete based on a variety of factors, often employing aggressive pricing strategies to gain market share. For example, in the relatively consolidated cement and ready-mix concrete industries, we generally compete based on quality, client segmentation, value proposition, and superior customer experience. In the more fragmented market for aggregates, we generally compete based on capacity, price for our products and our customer centric culture. In certain areas of the markets in which we compete, some of our competitors may be more established, benefit from greater brand recognition or have greater manufacturing and distribution channels and other resources than we do or offer a better customer experience than we do. In addition, if our competitors were to combine, they may be able to compete more effectively with us, and they may also dispose of assets, which could lead to new market entrants, increasing competition in our markets. Mergers and acquisitions transactions have played an important role in the last year in the United States. For example, in 2022, HeidelbergCement sold its Southern Spain business, including its integrated cement plant in Malaga and several sites in Adalusia to Votorantim Cimentos. This divestment complements a series of divestments made by HeidelbergCement in Spain, which include Asturias, Balearics and Catalonia, with the business in Spain announced to be divested during 2023. We have substantial operations in Spain, and it is unclear how competitive dynamics will change in these or other regions of the Iberian country following this transaction. Even though we have generally been able to compete effectively in Spain, these shifts in market participants in the markets where we participate could be detrimental to our position. In the United States, in late 2022, Holcim announced the acquisition of Polymers Sealants North America (“PSNA”), a company focused on coating, adhesive and sealant solutions with a presence in California, Arizona, Texas, Georgia and other states. This acquisition enables Holcim to expand its solutions and products division, which will further diversify their product portfolio and their applications. CEMEX has a presence in several of the states in which PSNA has a presence, effectively modifying competitive dynamics in these markets, which could be detrimental to our position. We believe that Elementia Materiales and Holcim, which have operations in Mexico, the United States and Latin America, offer products and services that could increase competition with our Urbanization Solutions business in those markets. In addition, if any of our major competitors divest assets in different parts of the world, this may lead to increased competition in the markets in which we operate. It is unclear how competitors that could potentially acquire those assets will compete in the markets in which we operate. Some may use aggressive competitive strategies based on imports and pricing that could be damaging to our industry’s profitability and, as a consequence, our results of operations. In addition, asset optimization by buyers of the disposed assets could result in an operational cost advantage. As a result, if we are not able to compete effectively, we may lose market share, potentially substantially, in the countries in which we operate, and our revenues could decline or grow at a slower rate and our business and results of operations would be harmed, which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

A substantial amount of our total assets consists of intangible assets, including goodwill. We have recognized charges for goodwill impairment in the past and in 2022, and if market or industry conditions deteriorate further, additional impairment charges may be recognized.

Our 2022 audited consolidated financial statements included in the February 23 6-K have been prepared in accordance with IFRS as issued by the IASB, under which goodwill is not amortized and is tested for impairment. Tests for impairment are carried out when indicators exist or at least once a year during the fourth quarter of each year and are performed by determining the value-in-use of its groups of cash-generating units (“CGUs”) to which goodwill balances have been allocated. The recoverable amount of CGUs consists of the higher of such groups of cash-generating units’ fair value, less cost to sell, and their corresponding value in use, represented by the discounted amount of estimated future cash flows expected to be generated by such groups of CGUs to which goodwill has been

allocated. An impairment loss is recognized under IFRS if the recoverable amount is lower than the net book value of the groups of CGUs to which goodwill has been allocated within other expenses, net. We determine the discounted amount of estimated future cash flows over periods of five years. If the value in use of a group of CGUs to which goodwill has been allocated is lower than its corresponding carrying amount, we determine its corresponding fair value using methodologies generally accepted in the markets to determine the value of entities, such as multiples of Operating EBITDA and/or by reference to market transactions.

Impairment tests are significantly sensitive to, among other factors, the estimation of future prices of our products, in the development of operating expenses, local and international economic trends in the construction industry, the long-term growth expectations in the different markets, as well as the discount rates and the growth rates in perpetuity applied. For purposes of estimating future prices, we use, to the extent available, historical data plus the expected increase or decrease according to information issued by trusted external sources, such as national construction or cement producer chambers and/or in governmental economic expectations. Operating expenses are normally measured as a constant proportion of revenues, following experience. However, such operating expenses are also reviewed considering external information sources in respect of inputs that behave according to international prices, such as oil and gas. We use specific pre-tax discount rates for each group of CGUs to which goodwill is allocated, which are applied to pre-tax cash flows. The amounts of estimated undiscounted cash flows are significantly sensitive to the growth rates in perpetuity applied. The higher the growth rate in perpetuity applied, the higher the amount of undiscounted future cash flows by group of CGUs obtained. Moreover, the amounts of discounted future cash flows are significantly sensitive to the weighted average cost of capital (discount rate) applied. The higher the discount rate applied, the lower the amount of discounted estimated future cash flows by group of CGUs obtained. During the fourth quarter of 2022, as part of our yearly impairment test, we recognized a non-cash aggregate goodwill impairment charge of \$365 million, of which \$273 million related to our business in the United States and \$92 million related to our business in Spain. In both cases, the related book value of the operating segment exceeded the corresponding value-in-use. The impairment losses in 2022 are mainly related to the significant increase in the discount rates as compared to 2021 and the resulting significant decrease in our projected cash flows in these segments considering the global high inflationary environment, which increased the risk-free rates, and the material increase in the funding cost observed in the industry during the period. See notes 7, 16.1 and 16.2 to our 2022 audited consolidated financial statements included in the February 23 6-K. Considering the important role that economic factors play in testing goodwill for impairment, we cannot assure that any downturn in the economies where we operate will not necessitate further impairment tests and a possible downward readjustment of our goodwill for impairment under IFRS. Such an impairment test could result in impairment charges which could be material to our financial statements, which could have a material adverse effect on our financial condition.

Activities in our business can be hazardous and can cause injury to people or damage to property in certain circumstances.

Most of our production facilities and units, as well as mineral extraction locations, require individuals to work with chemicals, equipment and other materials that have the potential to cause fatalities, harm and injury when used without due care. An accident or injury that occurs at our facilities could result in disruptions to our business and operations and could have legal and regulatory, as well as reputational, consequences. As a result, we may be required to compensate such individuals or incur other costs and liabilities, any and all of which could have a material adverse impact on our reputation, business, financial condition, liquidity, results of operations and prospects.

Additionally, cement production raises a number of health and safety issues. As is the case with other companies in our industry, some of our aggregate products contain varying amounts of crystalline silica, a common mineral. Also, some of our construction and material processing operations release, as dust, crystalline silica that is in the materials being handled. Excessive, prolonged inhalation of very small-sized particles of crystalline silica has allegedly been associated with respiratory disease (including silicosis). As part of our annual due diligence, we work with our stakeholders to verify that certain health and safety protocols are in place with regards to the management of silica and its health effects, as well as in relation to other substances and products. Nonetheless, any health issues related to cement and aggregates production can result in future claims related to exposure to these products or substances, which could have a material adverse impact on our reputation, business, financial condition, liquidity, results of operations and prospects.

Other health and safety issues related to our business include: burns arising from contact with hot cement kiln dust or dust on preheater systems; airborne hazards related to our aggregates mining activities; noise, including from chutes and hoppers, milling plants, exhaust fans and blowers; the potential for dioxin formation if chlorine-containing alternative fuels are introduced into kilns; plant cleaning and maintenance activities involving working at elevated heights or in confined or other awkward locations, and the storage and handling of coal, pet coke and certain alternative fuels, which, in their finely ground state, can pose a risk of fire or explosion; and health hazards associated with operating ready-mix concrete trucks. We may also be exposed to liability resulting from injuries or fatalities involving third-party service providers, such as drivers for our suppliers when delivering products or services to us. While we actively seek to minimize the risk posed by these issues, personal injury claims may be made, and substantial damages awarded, against us, which could have a material adverse impact on our reputation, business, financial condition, liquidity and results of operations. Additionally, we may also be required to change our operational practices, involving material capital expenditure.

Our operations and ability to source products and materials can be affected by adverse weather conditions and natural disasters, including climate change.

Construction activity, and thus demand for our products, decreases substantially during periods of cold weather, when it snows or when heavy or sustained rainfalls occur, or generally, in any rainy and snowy weather. Consequently, demand for our products is significantly lower during the winter or raining and snowing seasons in the countries in which we operate and do business. Generally, winter weather in our European and North American operations significantly reduces our first quarter sales volumes, and to a lesser extent our fourth quarter sales volumes. Sales volumes in these and similar markets generally increase during the second and third quarters because of normally better weather conditions. However, high levels of rainfall and/or snow can also adversely affect our operations during these periods, as well as our access to products and materials used in our operations (as was the case in 2018 with regard to our operations in the Philippines, which was exacerbated by a natural landslide that affected our operations in the country). Natural disasters throughout 2022, such as the floods in southeast Asia and South America, earthquakes in Asia, severe droughts in North America and hurricane Ian in Florida, have had and in the future could have a negative impact on our sales volumes, which could also have a material adverse effect on our results of operations. Our operations in Florida and Texas, the Caribbean and certain parts of the Gulf of Mexico are particularly exposed to hurricanes and similar weather events. For the years ended December 31, 2022, 2021 and 2020, the Company's other expenses, net, in the statement of operations, include expenses and losses associated with severe weather conditions of \$1 million, \$5 million and \$1 million, respectively, mainly related with hurricane Ian in 2022, storms in Texas in 2021 and Hurricanes Sally and Maria in 2020. These events generated incremental costs related to power and gas consumption costs and additional parts replacement, but these costs could be higher, including materially higher, in case the frequency and severity of any weather event increases, in particular as a result of climate change. In general, decreases in sales volumes because of weather events or natural disasters are usually counterbalanced by the increase in the demand for our products during the reconstruction phase, unless any of our operating units or facilities are impacted by the natural disaster, or if our access to our sources of raw materials and the general supply chain is also affected. Such adverse weather conditions and natural disasters can have a material adverse effect on our business, financial condition, liquidity and results of operations if they occur with unusual intensity, during abnormal periods, or last longer than usual in our major markets, or if they cause scarcity and increases in the cost of the products we need to run our business, especially during peak construction periods.

We could be adversely affected by any significant or prolonged disruption to our production facilities.

Any prolonged and/or significant disruption to our production facilities, whether due to repair, maintenance or servicing, governmental or administrative actions, regulatory issues, civil unrest, industrial accidents, unavailability or excessively high cost of raw materials such as energy to the point of making it inefficient to run our production facilities, mechanical equipment failure, human error, natural disaster, cyber-attack to our systems, public health threat or otherwise, could disrupt and adversely affect our operations. Additionally, any major or sustained disruptions in the supply of utilities such as water, gas or electricity or any fire, flood, earthquake, hurricane, volcanic eruption, landslide, blizzard or other natural calamities or communal unrest or acts of terrorism may disrupt our operations or damage our production facilities or inventories and could have a material adverse effect on our business, financial condition, liquidity and results of operations. We typically shut down our facilities to undertake maintenance and repair work at scheduled intervals. Although we schedule shutdowns such that not all our facilities are shut down at the same time, the unexpected shutdown or closure of any facility or the unexpected prolongation for unforeseen reasons of any scheduled shutdown or temporary closure, may nevertheless materially affect our business, financial condition, liquidity and results of operations from one period to another.

Labor activism and unrest, or failure to maintain satisfactory labor relations, could adversely affect our results of operations.

Labor activism and unrest may adversely affect our operations and thereby adversely affect our business, financial condition, liquidity, results of operations and prospects. Although most of our significant operations have not been affected by any significant labor disputes in the past, we cannot assure you that we will not experience labor unrest, activism, disputes or actions in the future, including as a result of labor laws and regulations that have recently been enacted or that could come into effect in the future, some of which may be significant and could adversely affect our business, financial condition, liquidity, results of operations and prospects. For example, collective bargaining agreements in some of the countries in which we operate have expired in the past year and, as a result, several negotiations have taken place and are expected to continue into 2023.

Our insurance coverage may not cover all the risks to which we may be exposed.

Among others, we face the risks of fatalities and injury of our employees and contractors, loss and damage to our products, property and machinery due to, among other things, public health threats, fire, theft and natural disasters such as floods, and also face risks related to cyber-security related matters. Such events may cause a disruption to, or cessation of, our operations and business. Our insurance coverage may not be sufficient to cover all of our potential losses and liabilities. In addition, our insurance coverage may not cover all the risks to which we may be exposed, such as all risks related to pandemics and/or epidemics (such as COVID-19), and political risk. If our losses exceed our insurance coverage, or if we are not covered by the insurance policies we have taken up, we may be liable to cover any shortfall or losses. Our insurance premiums may also increase substantially because of such claims. Such circumstances could have a material adverse effect on our business, liquidity, financial condition and results of operations.

Our success depends on the leadership of CEMEX, S.A.B. de C.V.'s board of directors and on key members of our executive management team and the availability of a specialized workforce.

Our success depends largely on strategic vision and actions of CEMEX, S.A.B. de C.V.'s board of directors and on key members of our executive management team. The loss of some or all of CEMEX, S.A.B. de C.V.'s directors or our senior management could have a material adverse effect on our business, financial condition, liquidity and results of operations, as well as on our reputation. Although we have appointed new board of directors members, including to replace outgoing board members, and removed members from the board of directors in recent years, we cannot assure you that this will continue to occur nor that the current structure and composition of CEMEX, S.A.B. de C.V.'s board of directors will be maintained.

The execution of our business strategy also depends on our ongoing ability to attract and retain highly skilled employees. For a variety of reasons, particularly due to the competitive environment and the limited availability of skilled labor, we may not be successful in attracting and retaining the personnel we require. In addition, the availability of trained and skilled transportation operators and drivers is lacking in certain countries in which we operate, including in the United States. Consequently, the manufacturing and distribution of our products may be adversely affected if we are unable to hire or train persons to perform such tasks. If we are unable to hire, train and retain qualified employees at a reasonable cost, we may be unable to successfully operate our business or capitalize on growth opportunities and, as a result, our business, financial condition, liquidity and results of operations could be materially and adversely affected.

Future pandemics and epidemics, such as the COVID-19 pandemic, could materially adversely affect our financial condition and results of operations.

Future pandemics and epidemics, as well as a resurgence in cases of currently existing strains of COVID-19, may cause governments and health authorities around the world to re-implement measures attempting to contain and mitigate the spread and effects of a virus. Measures previously implemented in connection with past pandemics and epidemics have resulted, and may continue to result, in: (i) restrictions on, or suspended access to, or shutdown, or suspension or the halt of, our facilities, including our cement plants and grinding mills; (ii) staffing shortages, production slowdowns or stoppages and disruptions in our delivery systems; (iii) disruptions or delays in our supply chains, including shortages of materials, products and services on which we and our businesses depend; (iv) reduced availability of land and sea transport, including labor shortages, logistics constraints and increased border controls or

closures; (v) increased cost of materials, products and services on which we and our businesses depend; (vi) reduced investor confidence and consumer spending in the regions where we operate and globally; (vii) a slowdown in economic activity, including in the construction industry, and a decrease in demand for our products and services and industry demand generally; (viii) constraints on the availability of financing, if available at all, including on access to credit lines and working capital facilities; (ix) inability to satisfy liquidity needs if our operating cash flow and funds received under receivables and inventory financing facilities decrease or if we are not able to obtain borrowings under credit facilities, proceeds of debt and equity offerings and/or proceeds from asset sales; (x) our inability to refinance our indebtedness on desired terms, if at all; or (xi) our inability to comply with, or receive waivers with respect to, restrictions and covenants under the agreements governing our indebtedness and financial obligations, including, but not limited to, maintenance covenants under our Credit Agreements. New pandemics and epidemics could cause governments to implement similar containment measures such as, but not limited to, those implemented during the COVID-19 pandemic. As to the effects and duration of the COVID-19 pandemic, there could still be significant adverse effects in the future mainly in connection with: (i) impairment of long-lived assets including goodwill; (ii) foreign exchange losses related to our obligations denominated in foreign currency; (iii) increases in estimated credit losses on trade accounts receivable; and (iv) further disruption in supply chains.

Risks Relating to Our Indebtedness and Certain Other Obligations

The Credit Agreements, the indentures governing our outstanding Notes and our other debt agreements and/or instruments contain several restrictions and covenants. Our failure to comply with such restrictions and covenants or any inability to capitalize on business opportunities or refinance our debt resulting from them could have a material adverse effect on our business and financial conditions.

Each Credit Agreement requires us to comply with financial ratios and tests, including (i) a minimum Consolidated Coverage Ratio of Consolidated EBITDA to Consolidated Interest Expense and (ii) a maximum Consolidated Leverage Ratio of Consolidated Net Debt to consolidated EBITDA, in each case, as described in each Credit Agreement. The calculation and formulation of Consolidated EBITDA, Consolidated Interest Expense, Consolidated Net Debt, Consolidated Coverage Ratio and Consolidated Leverage Ratio are defined and set out in each Credit Agreement and may differ from the calculation and/or formulation of analogous terms in this report. Our ability to comply with these ratios may be affected by our results of operations, economic conditions and volatility in foreign exchange rates, by overall conditions in the financial and capital markets and the construction sector, and by any monetary penalties or fines we may have to pay as a result of any administrative or legal proceedings to which we may be exposed to. See “Business—Regulatory Matters and Legal Proceedings” for more information. Additionally, each Credit Agreement requires us to comply with certain covenants and restrictions consistent with an investment grade capital structure. As of December 31, 2022, there were \$3,730 million and €400 million aggregate principal amount of then-outstanding Notes under the indentures governing such Notes. The indentures governing our Notes impose operating and financial restrictions on us, which are more stringent than those imposed by the Credit Agreements. These restrictions limit our ability, among other things, to: (i) incur debt, including restrictions on incurring debt at our subsidiaries, which are not parties to the indentures governing the Notes; (ii) pay dividends on stock; (iii) redeem stock or redeem subordinated debt; (iv) make investments; (v) guarantee indebtedness; and (vi) create or assume liens.

Most of the covenants and restrictions in the Credit Agreements and the indentures governing our Notes are subject to a number of exceptions and qualifications. Nevertheless, they still limit our ability to conduct business at our discretion and may, among other effects, potentially impede or restrict refinancing plans with respect to our debt limit, as well as our ability to seize opportunities for our business, particularly if we are unable to incur financing or make investments to take advantage of such opportunities. In addition, in connection with the entry into new financings or amendments to existing financing arrangements while our debt rating remains below investment grade, our financial and operational flexibility may be further reduced as a result of more restrictive covenants, requirements for security and other terms that are often imposed on sub-investment grade entities. The breach of any of these covenants could result in a default under the Credit Agreements and/or the indentures governing our outstanding Notes, as well as certain other existing debt obligations, as a result of cross-default provisions contained in the instruments governing such debt obligations. In the event of a default under any of the Credit Agreements and/or the indentures governing our outstanding Notes, lenders under the applicable Credit Agreement and holders of our outstanding Notes could seek to declare all amounts outstanding under such Credit Agreement and such Notes, together with accrued and unpaid interest, if any, to be immediately due and payable. If the indebtedness under the Credit Agreements, our

outstanding Notes, or certain other existing debt obligations were to be accelerated, we cannot assure you that our assets would be sufficient to repay in full such accelerated indebtedness or our other indebtedness. We cannot guarantee that we will be able to comply with the covenants and limitations contained in the Credit Agreements or in the indentures governing our Notes, or that we will comply with other agreements which constitute financial indebtedness in excess of \$50 million in which any non-compliance would trigger a cross-default. Our failure to comply with such covenants and limitations could result in an event of default, which could materially and adversely affect our business, financial condition, liquidity and results of operations.

We have historically, when needed, sought and obtained waivers and amendments to several of our debt instruments relating to a number of financial ratios, restrictions and covenants. Our ability to comply with these could be affected by global economic conditions, foreign exchange rates and the financial and capital markets, among other factors. We may need to seek waivers or amendments to debt agreements or debt instruments in the future. However, we cannot assure you that any such waivers or amendments will be obtained. If we are unable to comply with the provisions of our debt agreements or debt instruments, and are unable to obtain a waiver or amendment, the indebtedness outstanding under such debt agreements and/or instruments could be accelerated. Acceleration of these debt agreements and/or instruments would have a material adverse effect on our business, liquidity or financial condition.

The elimination of LIBOR after June 2023 may affect our financial results.

On March 5, 2021, the United Kingdom Financial Conduct Authority (the “FCA”), which regulates LIBOR, announced that all LIBOR tenors relevant to the Company will cease to be published or will no longer be representative after June 30, 2023. The FCA’s announcement coincided with the March 5, 2021 announcement of LIBOR’s administrator, the ICE Benchmark Administration Limited (the “IBA”), indicating that, as a result of not having access to input data necessary to calculate LIBOR tenors relevant to the Company on a representative basis after June 30, 2023, IBA would cease publication of such LIBOR tenors immediately after the last publication on June 30, 2023. These announcements mean that any of our LIBOR-based borrowings that extend beyond June 30, 2023 will need to be converted to a replacement rate. Upon the occurrence of a Benchmark Transition Event (as defined in the 2021 Credit Agreement) in relation to the corresponding currency in place of the LIBOR benchmark interest rate, a benchmark replacement will replace the then-current benchmark in accordance with the “hardwired” replacement provisions of the 2021 Credit Agreement.

In the United States, the Alternative Reference Rates Committee (the “ARRC”), a committee of private sector entities with ex-officio official sector members convened by the Federal Reserve Board and the Federal Reserve Bank of New York, has recommended the Secured Overnight Financing Rate (“SOFR”) plus a recommended spread adjustment as LIBOR’s replacement. There are significant differences between LIBOR and SOFR, such as LIBOR being an unsecured lending rate while SOFR is a secured lending rate, and SOFR is an overnight rate while LIBOR reflects term rates at different maturities. As of December 31, 2022, 19% of our foreign currency-denominated non-current total debt including subordinated notes and leases bears floating rates at a weighted average interest rate of LIBOR plus 148 basis points. Additionally, as of December 31, 2022, 26% of our foreign currency-denominated non-current debt with a maturity beyond December 31, 2022 is referenced to LIBOR. The impending transition away from and/or changes to the LIBOR benchmark interest rate could adversely affect our business, financial condition, liquidity and results of operations. If our LIBOR-based borrowings are converted to SOFR, the differences between LIBOR and SOFR, plus the recommended spread adjustment, could result in interest costs that are higher than if LIBOR remained available, which could have an adverse effect on our operating results. Although SOFR is the ARRC’s recommended replacement rate, it is also possible that lenders may instead choose alternative replacement rates that may differ from LIBOR in ways similar to SOFR or in other ways that would result in higher interest costs for us. It is not yet possible to predict the magnitude of LIBOR’s end on our borrowing costs given the remaining uncertainty about which rates will replace LIBOR.

We have a substantial amount of debt and other financial obligations. If we are unable to secure refinancing on favorable terms or at all, we may not be able to comply with our payment obligations upon their maturity. Our ability to comply with our principal maturities and financial covenants may depend on us implementing certain strategic initiatives, including, but not limited to, making asset sales, and there is no assurance that we will be able to implement any such initiatives or execute such sales, if needed, on terms favorable to us or at all.

As of December 31, 2022, our total debt plus other financial obligations was \$8,825 million (principal amount \$8,870 million, excluding deferred issuance costs). Of such total debt plus other financial obligations, \$987 million (principal amount \$987 million) matures during 2023; \$579 million (principal amount \$585 million) matures during 2024; \$1,587 million (principal amount \$1,599 million) matures during 2025; \$1,598 million (principal amount \$1,608 million) matures during 2026; and \$4,074 million (principal amount \$4,091 million) matures after 2026. If we are unable to comply with, or refinance or extend, maturities under certain of our indebtedness, substantially all of our debt could be accelerated. Acceleration of our debt would have a material adverse effect on our business, financial condition, liquidity and results of operations. As a result of the potential failure to achieve the targets under our strategic initiatives the restrictions under the Credit Agreements, the indentures that govern our outstanding Notes and other debt instruments, the current global economic environment, volatility in the credit and capital markets and uncertain market conditions, we may not be able to generate enough cash or, if needed to repay our indebtedness, raise debt, equity and/or equity-linked capital on favorable terms or at all. These circumstances could also prevent us from securing extensions from relevant creditors and undertaking alternative actions to refinance, such as the completion of asset sales on terms that are economically attractive or at all and could significantly limit the availability of funds to potential acquiring parties. If we fail to secure funds to repay our indebtedness in these or any other manners and our cash flow or capital resources prove inadequate, we could face liquidity problems and may not be able to comply with financial covenants and payment obligations under our indebtedness, which would have a material adverse effect on our business, financial condition, liquidity and results of operations.

Also, there can be no assurance that we will be able to implement our business strategy and initiatives and improve our results and revenues, which could affect our ability to refinance and/or comply with our payment obligations under our debt agreements and instruments.

We may not be able to generate sufficient cash to service our indebtedness or satisfy our short-term liquidity needs, and we may be forced to take other actions to do so, which may not be successful.

Historically, we have addressed our liquidity needs, including funds required to make scheduled principal and interest payments, refinance debt, and fund working capital and planned capital expenditures, mostly with operating cash flow, borrowings under credit facilities and receivables and inventory financing facilities, proceeds of debt and equity offerings and proceeds from asset sales. As of December 31, 2022, we had \$678 million funded under our securitization programs in Mexico, the United States, France and the United Kingdom. We cannot assure you that, going forward, we will be able to roll over or renew these programs or generate sufficient cash to service our indebtedness or satisfy our short-term liquidity needs through the means we have historically used. This could adversely affect our liquidity and force us to take other actions to service our indebtedness or satisfy our short-term liquidity needs, which may be unsuccessful.

Specifically, we have periodically resorted and may continue to resort to the capital markets to raise debt, equity and equity-linked capital as our principal alternative to the means to obtain liquidity described in the paragraph above. A wide variety of factors may have adverse effects on our operating results and negatively affect our credit rating and the market value of our CPOs and ADSs, or that of our publicly listed subsidiaries, mainly CLH and CHP. In such event, securities issued by us could be deemed undesirable in the capital markets, which could make traditional sources of capital unavailable to us on reasonable terms or at all. If the global economic environment deteriorates and our operating results worsen, if we are unable to complete divestitures and/or debt or equity offerings on favorable terms or at all and/or our cash flow or capital resources prove inadequate, we could face liquidity problems and may not be able to comply with our principal payments under our indebtedness or refinance our indebtedness.

CEMEX, S.A.B. de C.V.'s ability to repay debt and pay dividends is highly dependent on our subsidiaries' ability to transfer income and dividends to us. As of the date of this report, we control four publicly listed companies, where this risk is heightened.

Aside from its operations in Mexico, CEMEX, S.A.B. de C.V. is a holding company that owns the stock of its direct subsidiaries and is the beneficial owner of the equity interests of its indirect subsidiaries and has holdings of cash and marketable securities. In general, CEMEX, S.A.B. de C.V.'s ability to repay debt and pay dividends, as well as to make other payments, depends on the continued transfer to it of dividends and other income and funds from its subsidiaries. The ability of CEMEX, S.A.B. de C.V.'s subsidiaries to pay dividends and make other transfers to CEMEX, S.A.B. de C.V. is subject to various regulatory, contractual and legal constraints of the countries in which we operate, as well as our continued compliance with terms under our debt agreements and instruments under which certain covenants have been partially suspended.

The ability of CEMEX, S.A.B. de C.V.'s subsidiaries to pay dividends and make loans and other transfers to it is generally subject to various regulatory, legal and economic limitations. Depending on the jurisdiction of organization of the relevant subsidiary, limitations may include solvency and legal reserve requirements, dividend payment restrictions based on interim financial results or minimum net worth and withholding taxes on loan interest payments. For example, our subsidiaries in Mexico may declare and pay dividends only out of the profits reflected in the year-end financial statements approved by its stockholders. In addition, such payment can be approved by stockholders only after the creation of a required legal reserve (equal to one fifth of the relevant company's capital) and compensation or absorption of losses, if any, incurred by such corporation in previous fiscal years.

CEMEX, S.A.B. de C.V. may also be subject to exchange controls on remittances by its subsidiaries from time to time in a number of jurisdictions. In addition, CEMEX, S.A.B. de C.V.'s ability to receive funds from its subsidiaries may be restricted by the debt instruments and other contractual obligations of these entities. The jurisdictions of organization of CEMEX, S.A.B. de C.V.'s current or future subsidiaries may impose additional and more restrictive regulatory, legal and/or economic limitations. In addition, CEMEX, S.A.B. de C.V.'s subsidiaries may not be able to generate sufficient income to pay dividends or make loans or other transfers to it in the future, or may not have access to Dollars in their respective countries, which, as of the date of this report, would be the preferred currency to be received by CEMEX, S.A.B. de C.V. Also, any decision to have any of CEMEX, S.A.B. de C.V.'s not wholly-owned subsidiaries, such as CLH, CHP, TCL or CCCL, declare and pay dividends or make loans or other transfers to us is subject to any rights that non-controlling shareholders may have in the corresponding subsidiary. Additional or more restrictive limitations on our subsidiaries could adversely affect CEMEX, S.A.B. de C.V.'s ability to service our debt, meet its other cash obligations and pay dividends to its shareholders.

We have to service part of our debt and other financial obligations denominated in Dollars and Euros with revenues generated in Mexican Pesos or other currencies, as we do not generate sufficient revenue in Dollars and Euros from our operations to service all our debt and other financial obligations denominated in Dollars and Euros. This could adversely affect our ability to service our obligations in the event of a devaluation or depreciation in the value of the Mexican Peso, or any of the other currencies of the countries in which we operate, compared to the Dollar and Euro. In addition, our consolidated reported results and outstanding indebtedness are significantly affected by fluctuations in exchange rates between the Dollar (our reporting currency) vis-à-vis the Mexican Peso and other significant currencies within our operations.

A substantial portion of our total debt plus other financial obligations is denominated in Dollars and Euros. As of December 31, 2022, our debt plus other financial obligations denominated in Dollars and Euros represented 77% and 13% of our total debt plus other financial obligations, respectively. Our Dollar-denominated and Euro-denominated debt must be serviced with funds generated to some extent by our direct and indirect subsidiaries' operations outside the United States and Europe. Although we have substantial operations in the United States and Europe, we continue to rely to some extent on our non-U.S. assets and non-European assets to generate revenues to service our Dollar-denominated and Euro-denominated debt. Consequently, we have to use revenues generated in Mexican Pesos or other currencies to service our Dollar-denominated and Euro-denominated obligations. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Quantitative and Qualitative Market Disclosure—Interest Rate Risk, Foreign Currency Risk and Equity Risk—Foreign Currency Risk." A devaluation or depreciation in the value of the Mexican Peso, Pound Sterling, Colombian Peso, Philippine Peso or any of the other currencies of the countries in which we operate, compared to the Dollar and Euro, could adversely affect our ability to service our Dollar-denominated and Euro-denominated debt. In 2022, our operations in Mexico, the United Kingdom, France, Germany, Poland, Spain, the Philippines, Israel, the Rest of EMEAA (as defined below) segment, Colombia, Caribbean TCL (as defined below), the Dominican Republic and the Rest of SCA&C (as defined below) segment, which are our main non-Dollar denominated operations, together generated 56% of our total revenues in Dollar terms (21%, 5%, 4%, 3%, 2%, 2%, 2%, 5%, 4%, 2%, 2%, 2% and 2%, respectively) before eliminations resulting from consolidation. In 2022, 27% of our revenues in Dollar terms were generated from our operations in the United States before eliminations resulting from consolidation.

During 2022, the Mexican Peso appreciated 4.9% against the Dollar, the Euro depreciated 6.3% against the Dollar and the Pound Sterling depreciated 11.8% against the Dollar. Currency hedges that we may be a party to or may enter into in the future may not be effective in covering all our currency-related risks. Our consolidated reported results for any period and our outstanding indebtedness as of any date are significantly affected by fluctuations in exchange rates between the Dollar and other currencies, as those fluctuations influence the amount of our non-Dollar indebtedness when translated into Dollars and also result in foreign exchange gains and losses as well as gains and losses on derivative contracts, including those entered into to hedge our exchange rate exposure. For a description of these impacts, see “—Our use of derivative financial instruments has negatively affected, and any new derivative financial instruments could negatively affect, our operations, especially in volatile and uncertain markets.”

Increases in liabilities related to our pension plans could adversely affect our results of operations.

We have obligations under defined benefit pension and other benefit plans in certain countries in which we operate, mainly in North America and Europe. Our actual funding obligations will depend on benefit plan changes, government regulations and other factors, including changes in longevity and mortality statistics.

Despite the fact that we support our projections with studies by external actuaries, it is difficult to predict pension liabilities and funding requirements due to the large number of variables and assumptions involved, which are difficult to predict because they change continuously as demographics evolve. We have a net projected liability recognized in our statement of financial position as of December 31, 2022 of \$695 million. The future cash funding requirements for our defined benefit pension plans and other post-employment benefit plans could significantly differ from the amounts estimated as of December 31, 2022. If so, these funding requirements, as well as our possible inability to properly fund, and/or provide sufficient guarantees for, such pension plans if we are unable to deliver the cash or equivalent funding requirements, could have a material adverse effect on our business, financial condition, liquidity, results of operations and prospects. See note 19 to our 2022 audited consolidated financial statements included in the February 23 6-K for a detailed description of our pension obligations.

Risks Relating to Regulatory and Legal Matters

We are subject to the laws and regulations of the countries where we operate and do business and non-compliance, any material changes in such laws and regulations and/or any significant delays in assessing the impact and/or adapting to such changes may have an adverse effect on our business, financial condition, liquidity and results of operations.

Our operations are subject to the laws and regulations of the countries where we operate and do business, and such laws and regulations, and/or governmental interpretations of such laws and regulations, may change. Because CEMEX, S.A.B. de C.V. is organized under Mexican laws, and because of the considerable size of our operations in the United States, and the fact that the ADSs trade on the New York Stock Exchange (the “NYSE”), we have to comply with the laws and regulations, and/or governmental interpretations of such laws and regulations, of Mexico and the United States, whether or not we operate and do business through a subsidiary located in Mexico or the United States, also because of the size of our operations in EU countries, we, or most of our subsidiaries in the EU, are also required to comply with certain EU legislation.

Any change in such laws and regulations, and/or governmental interpretations of such laws and regulations, may have a material adverse effect on our business, financial condition, liquidity and results of operations. Furthermore, changes in laws and regulations, and/or governmental interpretations of such laws and regulations, may require us to devote a significant amount of time and resources to assess and, if required, to adjust our operations to any such changes, which could have a material adverse effect on our business, financial condition, liquidity and results of operations. In addition, any significant delays in assessing the impact and/or, if required, in adapting to changes in laws and regulations and/or governmental interpretations of such laws and regulations may also have a material adverse effect on our business, financial condition, liquidity, results of operations and prospects. For more information, see “—Risks Relating to Our Business and Operations—Economic conditions, including inflation, in countries where we operate and in other regions or countries may adversely affect our business, financial condition, liquidity and results of operations,” “—Risks Relating to Our Business and Operations—Political, social and geopolitical events, possible changes in public policies and other risks in some of the countries where we operate, which are inherent to the operations of an international company, could have a material adverse effect on our business, financial condition, liquidity and results of operations” and “—Our operations are subject to environmental laws and regulations that are increasingly stringent.”

We or our third-party providers may fail to maintain, obtain, or renew or may experience material delays in obtaining requisite governmental or other approvals, licenses and permits for the conduct of our business.

We and our third-party providers of goods and services, as applicable, require various approvals, licenses, permits, concessions and certificates in the conduct of our business. We cannot assure you that we, or our third-party providers of goods and services, will not encounter significant problems in obtaining new or renewing existing approvals, licenses, permits, concessions and certificates required in the conduct of our business, or that we, or our third-party providers of goods and services, will continue to satisfy the current or new conditions to such approvals, licenses, permits, concessions and certificates that we currently have or may be granted in the future. There may also be delays on the part of regulatory and administrative bodies in reviewing our applications and granting approvals, which have become increasingly common since the beginning of the COVID-19 pandemic due to closures and/or reduced operations of public offices. The implementation of new laws and regulations on environmental-related matters in the countries in which we operate or in the countries from which our third-party providers of goods and services source their deliverables to us, may create stricter requirements to comply with. This could delay our ability to obtain the related approvals, licenses, permits, concessions and certificates, or could result in us not being able to obtain them at all. If previously obtained approvals, licenses, permits and certificates are revoked and/or if we, or our third-party providers of goods and services, fail to obtain and/or maintain the necessary approvals, licenses, permits, concessions and certificates required for the conduct of our business, we may be required to incur substantial costs or temporarily suspend or alter the operation of one or more of our operating units, production facilities, mineral extraction locations or of any relevant component of them, which could affect the general production of these units, facilities or locations, which in turn could have a material adverse effect on our business, financial condition, liquidity, results of operations and prospects.

We are subject to litigation proceedings, including, but not limited to, government investigations relating to corruption and antitrust proceedings, that could harm our business and our reputation.

From time to time, we are and may become involved in litigation, investigations and other legal or administrative proceedings relating to claims arising from our operations, either in the normal course of business or not, or arising from violations or alleged violations of laws, regulations or acts. As described in, but not limited to, “Business—Regulatory Matters and Legal Proceedings,” as of December 31, 2022, we were subject to a number of significant legal proceedings, including, but not limited to, an SEC investigation concerning a new cement plant being built by CEMEX Colombia S.A. (“CEMEX Colombia”) in the Municipality of Maceo in the department of Antioquia, Colombia (the “Maceo Plant”), as well as an investigation from the United States Department of Justice (the “DOJ”) mainly relating to our operations in Colombia and other jurisdictions, and antitrust investigations in countries in which we operate. Investigations and litigation, and in general any legal or administrative proceedings, are subject to inherent uncertainties and unfavorable rulings may occur. We cannot assure you that these or any of our other regulatory matters and legal proceedings, including any that may arise in the future, will not harm our reputation or materially affect our ability to conduct our business in the manner that we expect or otherwise materially adversely affect us should an unfavorable ruling occur, which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

We are subject to anti-corruption, anti-bribery, anti-money laundering, antitrust, anti-boycott, economic sanctions, trade embargoes, and export control laws and regulations in the countries in which we operate, a considerable number of which are considered high-risk countries. Any violation of any such laws or regulations could have a material adverse impact on our reputation, results of operations and financial condition.

We are subject to anti-corruption, anti-bribery, anti-money laundering, antitrust and other international laws and regulations and are required to comply with the applicable laws and regulations of the countries in which we operate, some of which, including Mexico, Jamaica, Trinidad and Tobago, Guyana, Barbados, Colombia, Panama, Egypt, the Philippines, the Dominican Republic, Guatemala, Nicaragua, Croatia, the Czech Republic and Haiti, are considered medium and high-risk countries with regard to corruption-related matters. In addition, we are subject to regulations on international trade that restrict dealings with certain sanctioned countries, individuals and entities, including regulations administered by the United States of America, the United Kingdom, the European Union, and the United Nations Security Council and other international organizations and governments, including export control regulations, economic sanctions and trade embargoes. Given the large number of contracts that we are a party to around the world, the geographic distribution of our operations and the great variety of actors that we interact with in the course of business, we are subject to the risk that our affiliates, employees, directors, officers, partners, agents and service providers may misappropriate our assets, manipulate our assets or information, make improper payments or engage in corruption, bribery, money laundering or other illegal activity; and, as a consequence, we may be held liable for such misconduct, even if we do not engage in or authorize such activities.

Although we have implemented policies and procedures, which include training certain groups of our employees, seeking compliance with anti-corruption and other applicable laws and regulations, there can be no assurance that our internal policies and procedures will be sufficient to prevent or detect all inappropriate practices, fraud or violations of law by our affiliates, employees, directors, officers, partners, agents and service providers or that any such persons will not take actions in violation of our policies and procedures. If we fail to fully comply with applicable laws and regulations, the relevant government authorities of the countries where we operate have the power and authority to investigate us and, if necessary, impose fines, penalties and remedies, which could cause us to lose clients, suppliers and access to debt and capital markets. Any violations by us, or the third parties we transact with, of anti-bribery, anti-corruption, anti-money laundering, antitrust, anti-boycott, economic sanctions, trade embargoes, and export control laws or regulations could have a material adverse effect on our business, liquidity, reputation, results of operations and financial condition. For further information regarding our ongoing proceedings with respect to anti-corruption laws, see “—Risks Relating to Our Business and Operations—We are subject to litigation proceedings, including, but not limited to, government investigations relating to corruption and antitrust proceedings, that could harm our business and our reputation” and “Business—Regulatory Matters and Legal Proceedings.”

Certain tax matters may have a material adverse effect on our cash flow, financial condition and net income, as well as on our reputation.

We are subject to certain tax matters, mainly in Spain and Colombia, that, if adversely resolved, may have a material adverse effect on our operating results, liquidity and financial position, as well as on our reputation. See notes 2.14 and 20.4 to our 2022 audited consolidated financial statements included in the February 23 6-K, “Business—Regulatory Matters and Legal Proceedings—Tax Matters—Colombia,” and “Business—Regulatory Matters and Legal Proceedings—Tax Matters—Spain” for a description of the legal proceedings regarding these Colombian and Spanish tax matters, all included elsewhere in this report.

Our operations are subject to environmental laws and regulations that are increasingly stringent.

Our operations are subject to a broad range of environmental laws and regulations in each of the jurisdictions in which we operate. These laws and regulations impose stringent environmental protection standards, which in recent years have and in the future are expected to continue becoming progressively stricter regarding, among other things, air emissions (including greenhouse gas emissions), land use and biodiversity, use of alternative fuels, water availability, wastewater discharges, the use and handling of hazardous waste or materials, waste management practices and the remediation of environmental impacts from our operations. These laws and regulations expose us to the risk of substantial environmental costs and liabilities, including taxes, higher investment in equipment and technology, fines and other sanctions, the payment of compensation to third parties, remediation costs, business disruption and damage to reputation. Moreover, the enactment of stricter laws and regulations, stricter interpretation of existing laws or regulations or new enforcement initiatives, may impose new risks or costs on us or result in the need for additional investments, which could result in a material decline in our profitability. Such may be the case, for example, if policy derived from Executive Order 14008, Tackling the Climate Crisis at Home and Abroad, signed by U.S. President Joe Biden on January 27, 2021, results in new regulatory or legislative initiatives relating to climate change, the application of regulatory criteria in relation to environmental matters stricter than that currently being applied, or in preferential treatment regarding pricing, contracting, the granting of operational permits or other economic activities being given to entities which may have environmental standards that are stricter than ours.

In late 2010, the United States Environmental Protection Agency (“EPA”) issued the final Portland Cement National Emission Standard for Hazardous Air Pollutants (“Portland Cement NESHAP”) under the federal Clean Air Act (“CAA”). This rule required portland cement plants to limit mercury emissions, total hydrocarbons, hydrochloric acid and particulate matter by September 2013. The rule was challenged in federal court, and in December 2011, the D.C. Circuit Court of Appeals remanded the Portland Cement NESHAP to EPA and directed the agency to recompute the standards. In February 2013, EPA issued a revised final Portland Cement NESHAP rule that relaxed emissions limits for particulate matter and moved the compliance deadline to September 2015.

While we expect to meet all emissions standards imposed by the Portland Cement NESHAP, we estimate that we will continue to incur operating costs at each plant to comply and could incur penalties if we fail to do comply.

In February 2013, EPA issued revised final emissions standards under the CAA for commercial and industrial solid waste incinerators (the “CISWI rule”). Under the CISWI rule, if a material being used in a cement kiln as an alternative fuel is classified as a solid waste, the plant must comply with CISWI standards. The CISWI rule covers nine pollutants and imposes potentially more stringent emissions limits on certain pollutants that also are regulated under the Portland Cement NESHAP. EPA received petitions to further reconsider certain provisions of the CISWI rule. EPA granted reconsideration on four specific issues and finalized the reconsideration of the CISWI rule in June 2016. The CISWI rule was also challenged by both industrial and environmental groups in federal court. In July 2016, the D.C. Circuit issued a ruling upholding most of the rule and remanding several portions to EPA for further consideration. EPA has not issued a revised final rule after remand, but the portions of the rule upheld on appeal are final and in effect. The final CISWI rule established a compliance date of February 2018, which was not impacted by the appeal. As of December 31, 2022, none of our kilns at CEMEX plants in the United States have been determined to be CISWI kilns; but, if they are determined to be CISWI kilns due to the use of certain alternative fuels, the emissions standards imposed by the CISWI rule could have a material impact on our business operations.

Under certain environmental laws and regulations, liability associated with investigation or remediation of hazardous substances can arise at a broad range of properties, including properties currently or formerly owned or operated by CEMEX, as well as facilities at which any hazardous substances or wastes generated by us were sent for treatment, storage or disposal, or any areas affected while any hazardous substances or wastes were transported. Such laws and regulations may apply without regard to fault, causation or knowledge of contamination. We occasionally evaluate various alternatives with respect to our facilities, including possible dispositions or closures. Investigations undertaken in connection with these activities (or ongoing operational or construction activities) may lead to hazardous substance releases or discoveries of historical contamination that must be remediated, and closures of facilities may trigger compliance requirements that are not applicable to operating facilities. While compliance with these laws and regulations has not materially adversely affected our operations in the past, we cannot assure you that these requirements will not change, and that compliance will not adversely affect our operations in the future. Furthermore, we cannot assure you that existing or future circumstances or developments with respect to the impact of our operations will not require us to make significant remediation or restoration expenditures, which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

The cement manufacturing process requires the combustion of large amounts of fuel and creates CO₂ as a by-product of the calcination process. Therefore, efforts to address climate change through federal, state, regional, EU and international laws and regulations requiring reductions in emissions of greenhouse gases (“GHGs”) can create economic risks and uncertainties for our business. Such risks could include the cost of purchasing allowances or credits to meet GHG emission caps, the cost of paying higher energy costs or new CO₂-related taxes, the cost of installing equipment, adopting new technologies and employing non-clinker cementitious materials and other processes to reduce emissions to comply with GHG limits or required technological standards, decreased profits or losses arising from decreased demand for our goods and higher production costs resulting directly or indirectly from the imposition of legislative or regulatory controls. To the extent that financial markets view climate change and GHG emissions as a financial risk or that certain laws and regulations limit our access to the financial markets or financial products due to environmental considerations, this could have a material adverse effect on our cost of and access to capital. Given the uncertain nature of the actual or potential statutory and regulatory requirements for GHG emissions at the federal, state, regional, EU and international levels, we cannot predict the impact on our operations or financial condition or make a reasonable estimate of the potential costs to us that may result from such requirements. However, the impact of any such requirements, whether individually or cumulatively, could have a material economic impact on our operations in the United States, Europe, Mexico, United Kingdom and in other countries where we operate. In particular, rules and regulations that may come into effect to obtain the United States’ achievement of its Nationally Determined Contribution (as defined below) following its reentering to the Paris Agreement, the potential approval of the European Commission’s July 2021 proposal to implement measures to procure the fulfillment of the goals contained in the EU’s Green Deal (as defined below), the expected start of an emissions trading system in Mexico in 2024 and any further rules and regulations that may come into effect to complete the United Kingdom’s implementation of the UK ETS (as defined below) may cause these risks to be realized. For more information on certain laws and regulations addressing climate change that we are, or could become, subject to, and the impacts to our operations arising therefrom, see “Business—Regulatory Matters and Legal Proceedings—Environmental Matters.”

As part of our insurance-risk governance approach, from time to time we evaluate the need to address the financial consequences of environmental laws and regulations through the purchase of insurance. As a result, we do arrange certain types of environmental impairment insurance policies for both site-specific, as well as multi-site locations. We also organize non-specific environmental impairment insurance as part of the provision of a broader corporate insurance strategy. These latter insurance policies are designed to offer some assistance to our financial flexibility to the extent that the specifics of an environmental incident could give rise to a financial liability. However, we cannot assure you that a given environmental incident will be covered by the environmental insurance we have in place, or that the amount of such insurance will be sufficient to offset the liability arising from the incident. Any such liability may be deemed to be material to us and could have a material adverse effect on our business, financial condition, liquidity, results of operations and reputation.

It may be difficult to enforce civil liabilities against us or the members of CEMEX, S.A.B. de C.V.'s board of directors, our senior management and controlling persons.

CEMEX, S.A.B. de C.V. is a publicly traded variable stock corporation (*sociedad anónima bursátil de capital variable*) organized under the laws of Mexico. Most of the members of CEMEX, S.A.B. de C.V.'s board of directors and of our senior management reside in Mexico, and all or a significant portion of the assets of those persons may be, and a substantial part of our assets are, located outside the United States. As a result, it may not be possible for you to effect service of process within the United States upon such persons or to enforce against them or against us in U.S. courts judgments predicated upon the civil liability provisions of the federal securities laws of the United States. We have been advised by our General Counsel, Roger Saldaña Madero, that there is doubt as to the enforceability in Mexico, either in original actions or in actions for enforcement of judgments of U.S. courts, of civil liabilities predicated on the U.S. federal securities laws.

SELECTED CONSOLIDATED FINANCIAL INFORMATION

The financial data set forth below as of December 31, 2021 and 2022, and for each of the years ended December 31, 2020, 2021 and 2022 have been derived from, and should be read in conjunction with, and are qualified in their entirety by reference to, our 2022 audited consolidated financial statements included in the February 23 6-K.

Our 2022 audited consolidated financial statements included in the February 23 6-K have been prepared in accordance with IFRS, which differ in significant respects from U.S. GAAP. The regulations of the SEC do not require foreign private issuers that prepare their financial statements on the basis of IFRS (as issued by the IASB) to reconcile such financial statements to U.S. GAAP.

During 2022, we reported a controlling interest net income of \$858 million, which was 14% higher than 2021. This increase was driven by 8% higher revenues in 2022 compared to 2021, which was mainly due to a positive net contribution of price over cost although we had lower volumes of cement and significant increases in costs of sales items such as energy, fuels, raw materials and freight costs, among others, due to the global inflationary pressures resulting from the aftermath of the COVID-19 pandemic and the war in Ukraine and other factors. Our price strategy in all regions was able to offset these negative impacts. Our other expenses, net increased from an expense of \$82 million in 2021 to an expense of \$467 million in 2022, which was mainly due to a positive effect of \$600 million in 2021 for the gain on sale of emission allowances and, during the fourth quarter of 2022, the recognition of non-cash goodwill impairment losses for an aggregate amount of \$365 million, of which \$273 million correspond to our operating segment in the United States and \$92 million correspond to our operating segment in Spain. The non-cash goodwill impairment losses in 2022 were mainly related to the significant increase in the discount rates as compared to 2021 and the resulting significant decrease in our projected cash flows in these operating segments, considering the global inflationary environment, which increased the risk-free rates and the material increase in the funding costs observed in the industry during this period. These negative effects offset the expected improvements in estimated Operating EBITDA generation in both the United States and Spain.

In comparison to 2021, our financial expenses in 2022 shows a decrease of 39%, which was mainly driven by a reduction in our interest expenses and gains of \$104 million from debt tender offers and other market transactions reducing debt during the year. In this respect, we partially repurchased different series of our notes for an aggregate notional amount of \$1,172 million. Additionally, our financial income and other items, net improve from an expense of \$79 million to an income of \$47 million, mainly due to a favorable foreign exchange result.

Selected Consolidated Financial Information

	As of and for the Year Ended December 31,		
	2020	2021	2022
	(in millions of Dollars, except ratios and share and per share amounts)		
Statement of Operations Information:			
Revenues	\$ 12,669	\$ 14,379	\$ 15,577
Cost of sales ⁽¹⁾	(8,586)	(9,743)	(10,755)
Gross profit	4,083	4,636	4,822
Operating expenses	(2,791)	(2,917)	(3,261)
Operating earnings before other expenses, net ⁽²⁾	1,292	1,719	1,561
Other expenses, net	(1,763)	(82)	(467)
Operating earnings (loss) ⁽²⁾	(471)	1,637	1,094
Financial items ⁽³⁾	(888)	(737)	(354)
Share of profit of equity accounted investees	49	54	30
Earnings (loss) before income tax	(1,310)	954	770
Discontinued operations ⁽⁴⁾	(100)	(39)	324
Non-controlling interest net income	21	25	27
Controlling interest net income (loss)	(1,467)	753	858
Basic earnings (loss) per share ⁽⁵⁾⁽⁶⁾	(0.0332)	0.0171	0.0197
Diluted earnings (loss) per share ⁽⁵⁾⁽⁶⁾	(0.0332)	0.0168	0.0193
Basic earnings (loss) per share from continuing operations ⁽⁵⁾⁽⁶⁾	(0.0309)	0.0180	0.0123
Diluted earnings (loss) per share from continuing operations ⁽⁵⁾⁽⁶⁾	(0.0309)	0.0177	0.0120
Number of shares outstanding ⁽⁵⁾⁽⁷⁾⁽⁸⁾	44,870	44,853	44,348
Statement of Financial Position Information:			
Cash and cash equivalents	950	613	495
Assets held for sale and other current assets ⁽⁹⁾	304	272	183
Property, machinery and equipment, net and assets for the right-of-use, net ⁽¹³⁾	11,413	11,322	11,284
Total assets	27,425	26,650	26,447
Current debt	179	73	51
Non-current debt	9,160	7,306	6,920
Liabilities directly related to assets held for sale	6	39	—
Non-controlling interest and Perpetual Debentures ⁽¹⁰⁾	877	444	408
Total controlling interest	8,075	9,827	10,501
Other Financial Information:			
Book value per share ⁽⁵⁾⁽⁸⁾⁽¹¹⁾	0.1800	0.2191	0.2368

	31,		
	2020	2021	2022

(in millions of Dollars, except ratios and share and per share amounts)

Statement of Operations Information:

Operating margin before other expenses, net ⁽¹⁴⁾	10.2%	12.0%	10.0%
Operating EBITDA ⁽¹²⁾	2,397	2,839	2,681
Capital expenditures	795	1,094	1,362
Depreciation and amortization of assets	1,105	1,120	1,120
Cash flows provided by operating activities from continuing operations	2,348	2,500	2,150
Basic earnings (loss) per CPO from continuing operations ⁽⁵⁾⁽⁶⁾	(0.0927)	0.0540	0.0369
Basic earnings (loss) per CPO ⁽⁵⁾⁽⁶⁾	(0.0996)	0.0513	0.0591
Total debt plus other financial obligations ⁽¹³⁾	11,185	9,157	8,825

- (1) Cost of sales includes depreciation, amortization and depletion of assets involved in production, expenses related to storage in production plants, freight expenses of raw materials in plants and delivery expenses of our ready-mix concrete business. Our cost of sales excludes (i) expenses related to personnel and equipment comprising our selling network and those expenses related to warehousing at the points of sale and (ii) freight expenses of finished products from our producing plants to our points of sale and from our points of sale to our customers' locations, which are all included as part of the line item titled "Operating expenses."
- (2) In the statements of operations, we include the line item titled "Operating earnings before other expenses, net" considering that is a subtotal relevant for the determination of CEMEX's "Operating EBITDA" as explained in note 2.1 to our 2022 audited consolidated financial statements included in the February 23 6-K. Under IFRS, while there are line items that are customarily included in the statements of operations, such as revenues, operating costs and expenses and financial revenues and expenses, among others, the inclusion of certain subtotals such as "Operating earnings before other expenses, net" and the display of such statements of operations varies significantly by industry and company according to specific needs.
- (3) Financial items include our financial expense and our financial income and other items, net, which includes net interest cost of pension liabilities, financial income, results from financial instruments, net (derivatives, fixed-income investments and other securities), foreign exchange results and effects of amortized cost on assets and liabilities and others, net. See notes 8.1 and 8.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.
- (4) Considering the disposal of entire reporting segments as well as the sale of significant businesses, our statements of operations present as part of the single line item of "Discontinued operations," net of income tax, the results of: (a) the digital solution business Neoris for the years ended December 31, 2020 and 2021 and for the period from January 1 to October 25, 2022; (b) the operating segment in Costa Rica and El Salvador for the years 2020, 2021 and for the period from January 1 to August 31, 2022; (c) the white cement business held for sale in Spain for the year ended December 31, 2020 and for the period from January 1 to July 9, 2021; (d) France assets related to Rhone Alpes region for the year ended December 31, 2020 and for the period from January 1 to March 31, 2021; (e) the assets sold in the United Kingdom for the period from January 1 to August 3, 2020 and (f) Kosmos' assets sold in the United States for the period from January 1 to March 6, 2020. See note 4.2 in our 2022 audited consolidated financial statements included in the February 23 6-K.
- (5) CEMEX, S.A.B. de C.V.'s capital stock consists of Series A shares and Series B shares. Each CPO represents two Series A shares and one Series B share. As of December 31, 2022, 99.73% of CEMEX, S.A.B. de C.V.'s outstanding share capital was represented by CPOs. Each ADS represents ten CPOs.
- (6) Earnings per share is calculated based upon the weighted-average number of shares outstanding during the year, as described in note 23 to our 2022 audited consolidated financial statements included in the February 23 6-K. Basic earnings per CPO is determined by multiplying the basic earnings per share for each period by three (the number of shares underlying each CPO). Basic earnings per CPO is presented solely for the convenience of the reader and does not represent a measure under IFRS. As shown in notes 4.2 and 23 to our 2022 audited consolidated financial statements included in the February 23 6-K, and in connection with our discontinued operations mentioned above, for the year ended December 31, 2020, "Basic loss per share" and "Diluted loss per share" include (\$0.0309) from "Continuing operations," for the year ended December 31, 2021, "Basic earnings per share" and "Diluted earnings per share" include \$0.0180 and \$0.0177, respectively from "Continuing operations" and for the year ended December 31, 2022, "Basic earnings per share" and "Diluted earnings per share" include \$0.0123 and \$0.0120, respectively from "Continued operations." In addition, for the year ended December 31, 2020, "Basic loss per share" and "Diluted loss per share" include (\$0.0023) from "Discontinued operations," for the year ended December 31, 2021, "Basic earnings per share" and "Diluted earnings per share" include (\$0.0009) from "Discontinued operations" and for the year ended December 31, 2022, "Basic earnings per share" and "Diluted earnings per share" include \$0.0074 and \$0.0073, respectively from "Discontinued operations." See note 23 to our 2022 audited consolidated financial statements included in the February 23 6-K.
- (7) CEMEX, S.A.B. de C.V. did not declare a dividend for fiscal years 2020, 2021 and 2022. No recapitalization of retained earnings or cash dividend was proposed for CEMEX, S.A.B. de C.V.'s annual general ordinary shareholders' meeting held on March 26, 2020, March 25, 2021 and March 24, 2022.

- (8) Represents the weighted average number of shares diluted included in note 23 to our 2022 audited consolidated financial statements included in the February 23 6-K.
- (9) In 2020, includes assets held for sale in connection with the white cement assets in Spain of \$107 million. In 2021, includes assets held for sale in connection with the operating segments in Costa Rica and El Salvador for \$77 million. Additionally, as for the years ended December 31, 2020, 2021 and 2022, included other assets held for sale for \$80 million, \$64 million and \$69 million, respectively.
- (10) As of December 31, 2020, the line item of “Non-controlling interest and perpetual debentures” included \$449 million that represents the nominal amounts of Perpetual Debentures, denominated in Dollars and Euros, issued by consolidated entities. In June 2021, CEMEX redeemed all series of its outstanding Perpetual Debentures. In accordance with IFRS, these securities qualify as equity due to their perpetual nature and the option to defer the coupons.
- (11) Book value per share is calculated by dividing the total controlling interest by the number of shares outstanding.
- (12) “Operating EBITDA” equals operating earnings before other expenses, net, plus depreciation and amortization expenses. Operating EBITDA is calculated and presented because it is an indicator used by our management to review operating performance and for decision-making purposes and it is included in our Credit Agreements) as a financial indicator of our ability to internally fund capital expenditures and service or incur debt. See note 17.1 to our 2022 audited consolidated financial statements included in the February 23 6-K. Operating EBITDA is a non-IFRS measure and should not be considered a measure of financial performance, an alternative to cash flows or a measure of liquidity under IFRS. Our Operating EBITDA may not be comparable to similarly titled measures reported by other companies due to potential differences in the method of calculation. Operating EBITDA is reconciled below to operating earnings before other expenses, net, as reported in the statements of operations, and to cash flows provided by operating activities from continuing operations before financial expense, coupons on the 5.125% Subordinated Notes and Perpetual Debentures and income taxes, as reported in the statement of cash flows. Financial expense under IFRS does not include aggregate coupon payments of the Perpetual Debentures issued by consolidated entities and the 5.125% Subordinated Notes of \$24 million in 2020, \$41 million in 2021 and \$54 million in 2022, as described in notes 21.2 and 21.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.
- (13) From 2020 through 2022, other financial obligations include: (a) lease contracts as per IFRS 16; and (b) liabilities secured with accounts receivable. See notes 15.2 and 17.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.
- (14) Operating Margin before other expenses, net is calculated by dividing Operating earnings before other expenses, net by Revenues

	<u>For the Year Ended December 31,</u>		
	<u>2020</u>	<u>2021</u>	<u>2022</u>
	(in millions of Dollars)		
Reconciliation of cash flows provided by operating activities from continuing operations to Operating EBITDA			
Cash flow provided by operating activities from continuing operations	\$ 2,348	\$ 2,500	\$ 2,150
Plus/minus:			
Changes in working capital excluding income taxes	(199)	143	390
Depreciation and amortization of assets	(1,105)	(1,120)	(1,120)
Other items, net	248	196	141
Operating earnings before other expenses, net	1,292	1,719	1,561
Plus:			
Depreciation and amortization of assets	1,105	1,120	1,120
Operating EBITDA	<u>\$ 2,397</u>	<u>\$ 2,839</u>	<u>\$ 2,681</u>

MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis should be read in conjunction with, and are qualified in their entirety by reference to, our audited consolidated financial statements as of December 31, 2021 and 2022, and for each of the years ended December 31, 2020, 2021 and 2022, included in the February 23 6-K. Our financial statements have been prepared in accordance with IFRS as issued by IASB.

As previously described, our audited consolidated financial statements as of December 31, 2021 and 2022, and for each of the years ended December 31, 2020, 2021 and 2022 included in the February 23 6-K, include our presentation of several incurred and projected sales of assets as discontinued operations, as applicable. As of December 31, 2022, there are no significant assets held for sale.

The regulations of the SEC do not require foreign private issuers that prepare their financial statements based on IFRS (as issued by IASB) to reconcile such financial statements to U.S. GAAP.

The percentage changes in cement sales volumes described in this report for our operations in a particular country or region include the number of tons of cement and/or the number of cubic meters of ready-mix concrete sold to our operations in other countries and regions. Likewise, unless otherwise indicated, the revenues financial information presented in this report for our operations in each country or region includes the Dollar amount of revenues derived from sales of cement and ready-mix concrete to our operations in other countries and regions, which have been eliminated in the preparation of our audited consolidated financial statements as of and for the year ended December 31, 2022, included in the February 23 6-K.

The following table sets forth selected consolidated financial information as of December 31, 2021 and 2022 and for each of the years ended December 31, 2020, 2021 and 2022 by principal geographic reporting segment expressed as a percentage of our total consolidated group. We operate in countries and regions with economies in different stages of development and structural reform and with different levels of fluctuation in exchange rates, inflation and interest rates. These economic factors may affect our results of operations, liquidity and financial condition, depending upon the depreciation or appreciation of the exchange rate of each country and region in which we operate compared to the Dollar and the rate of inflation of each of these countries and regions.

	Revenues For the Year Ended December 31,			Operating Earnings Before Other Expenses, Net For the Year Ended December 31,			Total Assets at December 31,		
	2020 ⁽¹⁾	2021 ⁽¹⁾	2022 ⁽¹⁾	2020 ⁽²⁾	2021 ⁽²⁾	2022 ⁽²⁾	2020 ⁽²⁾	2021 ⁽²⁾	2022 ⁽²⁾
Mexico	21%	22%	21%	61%	58%	62%	14%	14%	15%
United States	30%	27%	27%	24%	18%	20%	46%	48%	48%
EMEAA									
United Kingdom	5%	6%	5%	2%	4%	9%	6%	6%	5%
France	6%	5%	4%	2%	3%	1%	4%	4%	4%
Germany	4%	3%	3%	3%	2%	1%	2%	2%	2%
Poland	3%	3%	2%	4%	3%	3%	1%	1%	1%
Spain	2%	2%	2%	(1)%	(2)%	(1)%	4%	3%	2%
Philippines	3%	3%	2%	6%	4%	3%	3%	3%	3%
Israel	6%	5%	5%	7%	4%	4%	3%	3%	3%
Rest of EMEAA	4%	4%	4%	1%	2%	3%	3%	3%	3%
SCA&C									
Colombia	3%	3%	2%	5%	4%	2%	4%	4%	3%
Panama	1%	1%	1%	—	1%	1%	1%	1%	1%
Caribbean TCL	2%	2%	2%	3%	3%	4%	2%	2%	2%
Dominican Republic	2%	2%	2%	6%	7%	8%	1%	1%	1%
Rest of SCA&C	3%	3%	2%	7%	6%	5%	1%	1%	1%
Corporate and Other Operations	5%	9%	16%	(30)%	(17)%	(25)%	5%	4%	6%
Continuing operations	13,371	15,914	18,326	1,292	1,719	1,561	27,238	26,509	26,379
Assets held for sale	—	—	—	—	—	—	187	141	68
Eliminations	(702)	(1,535)	(2,749)	—	—	—	—	—	—
Consolidated information	<u>12,669</u>	<u>14,379</u>	<u>15,577</u>	<u>1,292</u>	<u>1,719</u>	<u>1,561</u>	<u>27,425</u>	<u>26,650</u>	<u>26,447</u>

(1) Percentages by reporting segment are determined from continuing operations before eliminations resulting from consolidation.

(2) Percentages by reporting segment are determined from continuing operations after eliminations resulting from consolidation.

Results of Operations

Consolidation of Our Results of Operations

Our 2022 audited consolidated financial statements included in the February 23 6-K include those subsidiaries in which we hold a controlling interest or which we otherwise control. Control exists, and consolidation is required, only when we have all of the following: (a) the power, directly or indirectly, to direct the relevant activities of an entity; (b) the exposure to variable returns from our involvement with such entity; and (c) the ability to use our power over such entity to affect its returns.

Investments in associates when we have significant influence, which is generally presumed with a minimum equity interest of 20% and/or joint venture arrangements, in which we and other third-party investors have joint control and have rights to the net assets of the arrangements, are accounted for by the equity method. Under the equity method, after acquisition, the investment's original cost is adjusted for the proportional interest in the associate's equity and earnings.

All balances and transactions between the group subsidiaries have been eliminated in consolidation.

Discontinued Operations

Considering the disposal of entire reporting segments as well as the sale of significant businesses, our statements of operations present as part of the single line item of "Discontinued operations" the results of operations, net of income tax, of the following transactions (as further described below): (a) Neoris operations for the years ended 2020 and 2021 and for the period from January 1 to October 25, 2022; (b) Costa Rica and El Salvador operations for the years ended December 31, 2020 and 2021 and for the period from January 1 to August 31, 2022; (c) the white cement business sold in Spain for the year ended December 31, 2020 and for the period from January 1 to July 9, 2021; (d) the France assets related to the Rhone Alpes region for the year ended December 31, 2020 and for the period from January 1 to March 31, 2021; (e) the assets sold in the United Kingdom for the period from January 1 to August 3, 2020; and (f) Kosmos' assets sold in the United States for the period from January 1 to March 6, 2020. As a result, the financial data for the years ended December 31, 2020 and 2021 previously reported was restated. See note 4.2 in our 2022 audited consolidated financial statements included in the February 23 6-K.

Acquisition of Operations

The operating results of newly acquired businesses are consolidated in our financial statements beginning on the acquisition date. Therefore, all periods presented do not include operating results corresponding to newly acquired businesses before we assumed control.

Significant Transactions

For the years ended December 31, 2020, 2021 and 2022, our consolidated results reflect the following transactions:

- On December 10, 2021, through a subsidiary in Mexico, we acquired Broquers Ambiental, a sustainable waste management company for a total consideration of \$13 million. Broquers Ambiental assets include a plant for solid waste treatment for its use as alternate fuel. During 2022, considering the fair values of the assets acquired and liabilities assumed, we determined goodwill of \$4 million.
- On July 11, 2022, through a subsidiary in Germany, we completed the acquisition of a 53% stake in the German aggregates company ProStein for a total consideration of \$21 million. The investment expands our aggregates business in the region and we estimate that it increases the life of the aggregates' reserves for our operations in Central Europe for at least the next 25 years. The majority stake in ProStein's assets adds a full range of fine and hard aggregates to our aggregates portfolio. In addition to supplying the greater Berlin area, the additional capacity can supply several urban centers in Poland and the Czech Republic. ProStein's assets include six active hardstone plants and six CDEW recovery sites. As of December 31, 2022, based on the preliminary valuation of the fair values of the assets acquired and liabilities assumed, we have not determined any goodwill.

- On October 25, 2022, we created a partnership with Advent. As part of the partnership, we sold to Advent a 65% stake in Neoris for a total consideration of \$119 million. While surrendering control to Advent, we retain an approximate 35% stake and remain as a key strategic partner and customer of Neoris. Our retained approximate 35% stake in Neoris was remeasured at fair value at the date of loss of control and is subsequently accounted for under the equity method and presented in the line item “Investments in associates and joint ventures.” Neoris’ results for the years ended December 31, 2020 and 2021 and for the period from January 1 to October 25, 2022 are reported in the statements of operations, net of income tax, in the single line item “Discontinued operations,” including a gain on sale of \$117 million in 2022, net of the reclassification of foreign currency translation effects accrued in equity until the date of loss of control.
- On August 31, 2022, we announced that we, through certain of our subsidiaries, concluded the sale agreed in December 2021 of our operations in Costa Rica and El Salvador to affiliates of Cementos Progreso Holdings, S.L. for a total consideration of \$325 million, related to our aggregate controlling interest. The divested assets consisted of one fully integrated cement plant, one grinding station, seven ready-mix plants, one aggregate quarry, as well as one distribution center in Costa Rica and one distribution center in El Salvador. As of December 31, 2021, the assets and liabilities related to our operations in Costa Rica and El Salvador were presented in the financial statements in the line items “Assets held for sale” and “Liabilities directly related to assets held for sale.” Our operations of these assets in Costa Rica and El Salvador for the years ended December 31, 2020 and 2021 and for the period from January 1, 2022 to August 31, 2022 are reported in the statements of operations, net of income tax, as part of the single line item “Discontinued operations,” including in 2022 a gain on sale of \$240 million, which includes the reclassification of foreign currency translation effects accrued in equity until the disposal date.
- On July 9, 2021, we announced that we concluded the sale agreed in March 2019 of our white cement business, except for Mexico and the U.S., to Çimsa Çimento Sanayi Ve Ticaret A.S. for a total consideration of \$155 million. Assets sold included our Buñol cement plant in Spain and white cement customer list. Our operations of these assets in Spain for the year ended December 31, 2020 and the period from January 1, 2021 to July 9, 2021 are reported in the statements of operations, net of income tax, as part of the single line item “Discontinued operations,” including in 2021 a loss on sale of \$67 million net of the proportional allocation of goodwill of \$41 million.
- On March 31, 2021, we sold 24 concrete plants and one aggregates quarry in France to Holcim for an amount in Euros equivalent to \$44 million. These assets were located in the Rhone Alpes region in the Southeast of France, east of our operations in Lyon. We will retain our business in Lyon. The operations related to these assets for the year ended December 31, 2020 and the three-month period ended March 31, 2021 are presented in our statements of operations, net of income tax, as part of the single line item “Discontinued operations.”
- In January 2021, one of our subsidiaries in Israel acquired two ready-mix concrete plants from Kinneret and Beton-He’Emek for an amount in shekels equivalent to \$6 million. After the conclusion of the purchase price allocation to the fair values of the assets acquired and liabilities assumed of this business, we determined goodwill of \$5 million.
- During 2020, CEMEX España made the 2020 CLH Tender Offer. As of December 31, 2022, considering the effects of the 2020 CLH Tender Offer and additionally including shares of CLH purchased by us in the secondary market, we indirectly own 95.30% of all outstanding shares of CLH (which excludes shares of CLH owned by CLH). See “Recent Developments—Recent Developments Relating to Our Business and Operations.”
- On August 3, 2020, through an affiliate in the United Kingdom, we closed the sale of certain assets to Breedon for an amount in Pounds equivalent to \$230 million, including \$30 million of debt. The assets included 49 ready-mix plants, 28 aggregate quarries, four depots, one cement terminal, 14 asphalt plants, four concrete products operations, as well as a portion of our paving solutions business in the United Kingdom. After completion of this divestiture, we maintain a significant footprint in key operating geographies in the United Kingdom related to the production and sale of cement, ready-mix,

aggregates, asphalt and paving solutions, among others. Our operations of these assets in the United Kingdom for the period from January 1 to August 3, 2020, which includes a loss on sale of \$57 million net of the proportional allocation of goodwill of \$47 million, are presented in our statements of operations, net of tax, as part of the single line item “Discontinued operations.”

- On March 6, 2020, we concluded the sale of our U.S. affiliate Kosmos, a partnership with a subsidiary of Buzzi Unicem S.p.A. in which we held a 75% interest, to Eagle Materials Inc. for \$665 million. The share of proceeds to us from this transaction was \$499 million before transactional and other costs and expenses. The assets that were divested consisted of Kosmos’ cement plant in Louisville, Kentucky, as well as related assets which include seven distribution terminals and raw material reserves. The operations of these assets in the United States for the period from January 1 to March 6, 2020, which includes a gain on sale of \$14 million, net of the proportional allocation of goodwill of \$291 million, and are presented in our statements of operations, net of income tax, as part of the single line item “Discontinued operations.”
- During the first six months of 2020, one of our subsidiaries in Israel acquired Netivei Noy from Ashtrom Industries for an amount in Shekels equivalent to \$33 million. After the conclusion of the purchase price allocation to the fair values of the assets acquired and liabilities assumed of this business, we determined goodwill of \$2 million.
- On January 29, 2020, CHP announced the results of its stock rights offering pursuant to which 8,293,831,169 common shares of CHP were issued and listed on the Philippine Stock Exchange on March 4, 2020. As of December 31, 2022, after giving effect to the stock rights offering, and other repurchased in the market over the last few years, our indirect ownership of CHP’s outstanding common shares had further increased to 77.90%. See “Recent Developments—Recent Developments Relating to Our Business and Operations.”

See notes 4.1 and 4.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Consolidated Statements of Operations Data

The following table sets forth our selected consolidated statements of operations data for each of the years ended December 31, 2020, 2021 and 2022 expressed as a percentage of revenues.

	Year Ended December 31,		
	2020	2021	2022
Revenues	100%	100%	100%
Cost of sales	(67.8)	(67.8)	(69.0)
Gross profit	32.2	32.2	31.0
Operating expenses	(22.0)	(20.3)	(20.9)
Operating earnings before other expenses, net	10.2	12.0	10.0
Other expenses, net	(13.9)	(0.6)	(3.0)
Operating earnings	(3.7)	11.4	7.0
Financial expense	(6.1)	(4.6)	(2.6)
Financial income and other items, net	(0.9)	(0.5)	0.3
Share of profit on equity accounted investees	0.4	0.4	0.2
Earnings (loss) before income tax	(10.3)	6.6	4.9
Income tax	(0.3)	(1.0)	(1.3)
Net income (loss) from continuing operations	(10.6)	5.7	3.6
Discontinued operations	(0.8)	(0.3)	2.1
Consolidated net income (loss)	(11.4)	5.4	5.7
Non-controlling interest net income	0.2	0.2	0.2
Controlling interest net income (loss)	(11.6)	5.2	5.5

Key Components of Results of Operations

Revenues

Revenues are primarily comprised of cement, ready-mix concrete, aggregates, and Urbanization Solutions, which accounted for 94%, 90% and 86% of consolidated revenues before eliminations resulting from consolidation for the years ended December 31, 2020, 2021 and 2022, respectively. We recognized revenues at a point in time or overtime in the amount of the price, before tax on sales, expected to be received for goods and services supplied because of ordinary activities, as contractual performance obligations are fulfilled, and control of goods and services passes to the customer. Revenues are decreased by any trade discounts or volume rebates granted to customers. Transactions between related parties are eliminated in consolidation. Variable consideration is recognized when it is highly probable that a significant reversal in the amount of cumulative revenue recognized for the contract will not occur and is measured using the expected value or the most likely amount method, whichever is expected to better predict the amount based on the terms and conditions of the contract.

Cost of Sales

Cost of sales represents the production cost of goods sold, including raw materials and goods for resale, payroll related to the production phase, electricity, fuels, and other services, depreciation and amortization of assets involved in the production, maintenance, repairs and supplies, freight expenses of raw material in plants and delivery expenses of our ready-mix concrete business, among other production costs. Cost of sales does not include (i) expenses related to personnel, equipment and services involved in sales activities and storage of product at points of sales, which are included in administrative and selling expenses and (iii) freight expenses of finished products between plants and points of sale and freight expenses between points of sales and the customers' facilities, which are included as part of distribution expenses. Administrative and selling expenses and distribution expenses are included in operating expenses. As a percentage of revenues, cost of sales represented 67.8%, 67.8% and 69.0% for the years ended December 31, 2020, 2021 and 2022, respectively.

Operating Expenses

Operating expenses comprise administrative and selling expenses and distribution and logistics expenses. Administrative expenses represent the expenses associated with personnel, services and equipment, including depreciation and amortization, related to managerial activities and back-office for our management. Sales expenses represent the expenses associated with personnel, services and equipment, including depreciation and amortization, involved specifically in sales activities. Distribution and logistics expenses refer to storage expenses at points of sales, including depreciation and amortization, freight expenses of finished products between plants and points of sale and freight expenses between points of sales and the customers' facilities. As a percentage of revenues, operating expenses represented 22.0%, 20.3% and 20.9% for the years ended December 31, 2020, 2021 and 2022, respectively. The main operating expenses are comprised of transportation cost, payroll of personnel, depreciation and amortization of assets related to the operating expenses, as well as professional legal, accounting and advisory services and maintenance, repairs and supplies accounted for 96.2%, 96.4% and 96.1% of consolidated operating expenses for the years ended December 31, 2020, 2021 and 2022, respectively.

Other Expenses, Net

The line item Other expenses, net consists primarily of revenues and expenses not directly related to our main activities or which are of non-recurring nature, including impairment losses of long-lived assets, non-recurring sales of emission allowances, results on disposal of assets, which relates to sales of property plant and equipment, and restructuring costs, losses in connection with property damages and natural disasters and incremental costs and expenses related to COVID-19 pandemic, among others. For the years ended December 31, 2020, 2021 and 2022, Other expenses, net, amounted to \$1,763 million, \$82 million and \$467 million, respectively. In 2020, 2021 and 2022, include impairment losses of goodwill of \$1,020 million, \$440 million and \$365 million, respectively, and in 2020 and 2021, it included impairment losses of other intangible assets of \$194 million and \$53 million, respectively. As a percentage of revenues, Other expenses, net, represented 13.9%, 0.6% and 3.0% for the years ended December 31, 2020, 2021 and 2022, respectively.

Financial income and other items, net

Financial income and other items, net, includes (i) Effects of amortized cost on assets and liabilities and others, net; (ii) Net interest cost of pension liabilities; (iii) Results from financial instruments, net; (iv) Foreign exchange results, comprising foreign exchange gains and losses in connection with the effects of foreign exchange fluctuations on our assets and liabilities denominated in currencies other than the Dollar; (v) Financial income, which relates to income in connection with deposits and investments; and (vi) others. As a percentage of revenues, financial income, and other items, net, represented 0.9%, 0.5% and 0.3% for the years ended December 31, 2020, 2021 and 2022, respectively.

Income Tax

Income tax comprises current income taxes net of deferred income taxes. For the years ended December 31, 2020, 2021 and 2022, our statutory income tax rate was 30%, 30% and 30%, respectively. Our average effective tax rate equals the net amount of income tax revenue or expense divided by income or loss before income taxes, as these line items are reported in the statement of operations, was (2.7%), 14.4% and 27.1%, for the years ended December 31, 2020, 2021 and 2022, respectively. The effects reflected in the statement of operations for income taxes include the amounts incurred during the period and the amounts of deferred income taxes, determined according to the income tax law applicable to each subsidiary, reflecting uncertainty in income tax treatments. Consolidated deferred income taxes represent the addition of the amounts determined in each subsidiary by applying the enacted statutory income tax rate or substantively enacted by the end of the reporting period to the total temporary differences resulting from comparing the book and taxable values of assets and liabilities, considering tax assets such as loss carryforwards and other recoverable taxes, to the extent that it is probable that future taxable profits will be available against which they can be utilized. The measurement of deferred income taxes at the reporting period reflects the tax consequences that follow how we expect to recover or settle the carrying amount of its assets and liabilities. Deferred income taxes for the period represent the difference between balances of deferred income taxes at the beginning and the end of the period. Deferred income tax assets and liabilities relating to different tax jurisdictions are not offset. The effect of a change in enacted statutory tax rates is recognized in the period in which the change is officially enacted.

Year Ended December 31, 2022 Compared to Year Ended December 31, 2021

Summarized in the table below are the percentage (%) increases (+) and decreases (-) for the year ended December 31, 2022 compared to the year ended December 31, 2021 in our domestic cement and ready-mix concrete sales volumes, as well as export sales volumes of cement and domestic cement and ready-mix concrete average sales prices for each of our reporting segments.

Reporting segments represent the components of CEMEX that engage in business activities from which we may earn revenues and incur expenses, whose operating results are regularly reviewed by the entity's top management to make decisions about resources to be allocated to the segments and assess their performance, and for which discrete financial information is available. We operate geographically and by line of business on a regional basis. For the reported periods, the Company's operations were organized in four geographical regions, each under the supervision of a regional president, as follows: 1) Mexico, 2) United States, 3) EMEAA and 4) SCA&C. The accounting policies applied to determine the financial information by reporting segment are consistent with those described in note 2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

As of December 31, 2022, considering similar regional and economic characteristics and/or materiality, certain countries have been aggregated and presented as single line items as follows: (i) "Rest of EMEAA" refers mainly to CEMEX's operations and activities in the Czech Republic, Croatia, Egypt and the UAE; (ii) "Rest of SCA&C" refers mainly to CEMEX's operations and activities in Puerto Rico, Nicaragua, Jamaica, the Caribbean and Guatemala, excluding the operations of TCL; and (iii) "Caribbean TCL" refers to TCL's operations mainly in Trinidad and Tobago, Jamaica, Guyana and Barbados. The segment "Others" refers to: (1) cement trade maritime operations, (2) CEMEX, S.A.B. de C.V., (3) other corporate entities and finance subsidiaries and (4) other minor subsidiaries with different lines of business.

The table below and the other volume data presented by reporting segment in this section are presented before eliminations resulting from consolidation (including those shown in note 4.3 to our 2022 audited consolidated financial statements included in the February 23 6-K).

Reporting Segment	Domestic Sales Volumes		Export Sales Volumes	Average Domestic Sales Prices in Local Currency ⁽¹⁾	
	Cement	Ready-Mix Concrete	Cement	Cement	Ready-Mix Concrete
Mexico	-8%	+10%	+17%	+16%	+15%
United States	+1%	FLAT	—	+16%	+15%
EMEAA					
United Kingdom	-5%	-9%	—	+37%	+30%
France	—	-4%	—	—	+7%
Germany	+8%	-6%	-32%	+17%	+9%
Poland	-4%	-3%	-13%	+24%	+22%
Spain	FLAT	-3%	+8%	+30%	+23%
Philippines	-10%	—	-35%	+9%	—
Israel	—	+4%	—	—	+10%
Rest of EMEAA	+8%	+3%	-34%	+27%	+22%
SCA&C					
Colombia	-1%	+14%	—	+8%	+4%
Panama	+7%	+44%	+16%	-4%	+4%
Caribbean TCL	-2%	-35%	-8%	+13%	+8%
Dominican Republic	-7%	+10%	-48%	+18%	+12%
Rest of SCA&C	-19%	-33%	-35%	+13%	-8%

“—” = Not Applicable

(1) Represents the average change in domestic cement and ready-mix concrete prices in local currency terms. For purposes of a reporting segment consisting of a region, the average prices in local currency terms for each individual country within the region are first translated into Dollar terms (except for the Rest of EMEAA segment, in which they are translated first into Euros) at the exchange rates in effect as of the end of the reporting period. Variations for a region represent the weighted average change of prices in Dollar terms (except for the Rest of EMEAA segment, in which they represent the weighted average change of prices in Euros) based on total sales volumes in the region.

On a consolidated basis, our cement sales volumes decreased 5%, from 67.0 million tons in 2021 to 63.4 million tons in 2022, and our ready-mix concrete sales volumes increased 2%, from 49.2 million cubic meters in 2021 to 50.1 cubic meters in 2022. Our revenues increased 8%, from \$14,379 million in 2021 to \$15,577 million in 2022, and our operating earnings before other expenses, net decreased 9%, from \$1,719 million in 2021 to \$1,561 million in 2022. See the table below for a breakdown according to reporting segment.

The following tables present selected financial information for revenues and operating earnings before other expenses, net for each of our reporting segments for the years ended December 31, 2021 and 2022. The revenues information in the table below are presented before eliminations resulting from consolidation (including those shown in note 4.3 to our 2022 audited consolidated financial statements included in the February 23 6-K). Variations in revenues determined on the basis of Dollars include the appreciation or depreciation which occurred during the period between the local currencies of the countries in the regions vis-à-vis the Dollar; therefore, such variations differ substantially from those based solely on the countries' local currencies:

Reporting Segment	Variation in Local Currency ⁽¹⁾	Approximate Currency Fluctuations	Variation in Dollars (in millions of Dollars)	Revenues For the Year Ended		
				2021	2022	
Mexico	+9%	+2%	+11%	\$ 3,466	\$ 3,842	
United States	+16%	—	+16%	4,359	5,038	
EMEA						
United Kingdom	+17%	-13%	+4%	940	982	
France	+2%	-12%	-10%	863	781	
Germany	+16%	-13%	+3%	472	485	
Poland	+17%	-14%	+3%	405	419	
Spain	+20%	-14%	+6%	359	382	
Philippines	-2%	-9%	-11%	424	379	
Israel	+12%	-5%	+7%	785	840	
Rest of EMEA	+29%	-15%	+14%	618	707	
SCA&C						
Colombia	+11%	-13%	-2%	437	429	
Panama	+23%	—	+23%	121	149	
Caribbean TCL	+8%	FLAT	+8%	280	302	
Dominican Republic	+12%	+4%	+16%	299	348	
Rest of SCA&C	-15%	—	-15%	465	394	
Others	+76%	—	+76%	1,621	2,849	
Revenues from continuing operations before eliminations resulting from consolidation				+15%	\$15,914	\$18,326
Eliminations resulting from consolidation					(1,535)	(2,749)
Revenues from continuing operations				+8%	<u>\$14,379</u>	<u>\$15,577</u>

Reporting Segment	Variation in Local Currency ⁽¹⁾	Approximate Currency Fluctuations	Variation in Dollars (in millions of Dollars)	Operating Earnings Before Other Expenses, Net For the Year Ended December 31,	
				2021	2022
Mexico	-6%	+2%	-4%	\$ 1,003	\$ 961
United States	-2%	—	-2%	314	307
EMEEA					
United Kingdom	+110%	-22%	+88%	72	135
France	-68%	-2%	-70%	43	13
Germany	-64%	-7%	-71%	41	12
Poland	-1%	-12%	-13%	48	42
Spain	+38%	+6%	+44%	(39)	(22)
Philippines	-31%	-5%	-36%	74	47
Israel	+16%	-20%	-4%	69	66
Rest of EMEAA	+123%	-26%	+97%	31	61
SCA&C					
Colombia	-31%	-8%	-39%	61	37
Panama	-20%	—	-20%	15	12
Caribbean TCL	+25%	-1%	+24%	46	57
Dominican Republic	Flat	+3%	+3%	121	125
Rest of SCA&C	-21%	—	-21%	97	77
Others	+33%	—	+33%	(277)	(369)
Operating earnings before other expenses, net from continuing operations			-9%	<u>\$ 1,719</u>	<u>\$ 1,561</u>

“—” = Not Applicable

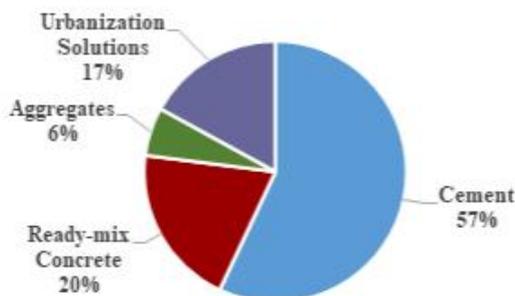
(1) Represents the variation in local currency terms. For purposes of a reporting segment consisting of a region, the variation in local currency terms for each individual country within the region are first translated into Dollar terms (except for the Rest of EMEAA segment, in which they are translated first into Euros) at the exchange rates in effect as of the end of the reporting period. Variations for a region represent the change in Dollar terms (except for the Rest of EMEAA segment, in which they represent the change in Euros), net, in the region.

Revenues. Our consolidated revenues increased 8%, from \$14,379 million in 2021 to \$15,577 million in 2022. The increase in our revenues was mainly attributable to the higher prices of our products in local currency across all regions and higher ready mix and aggregates volumes. Set forth below is a quantitative and qualitative analysis of the various factors affecting our revenues on a reporting segment basis. The discussion of volume data and revenues information below is presented before eliminations resulting from consolidation as described in note 4.3 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Mexico

Our domestic cement sales volumes from our operations in Mexico decreased 8% in 2022 compared to 2021, and ready-mix concrete sales volumes increased 10% over the same period. Our revenues from our operations in Mexico represented 21% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. During the year, bagged cement demand normalized from the pandemic peak related to home improvements and government social spending, as well as inflationary pressures impacting retail consumption. The country continues to experience a pickup in the formal economy, and bulk cement and ready-mix volumes benefited from nearshoring investments in border states and tourism construction. Our cement export volumes from our operations in Mexico, which represented 14% of our Mexican cement sales volumes for the year ended December 31, 2022, increased 17% in 2022 compared to 2021, mainly due to higher export volume to the United States. Of our total cement export volumes from our operations in Mexico during 2022, 92% was shipped to the United States and 8% to our SCA&C segment. Our average sales price of domestic cement from our operations in Mexico increased 16%, in Mexican Peso terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 15%, in Mexican Peso terms, over the same period.

The following chart indicates the breakdown of Mexico revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

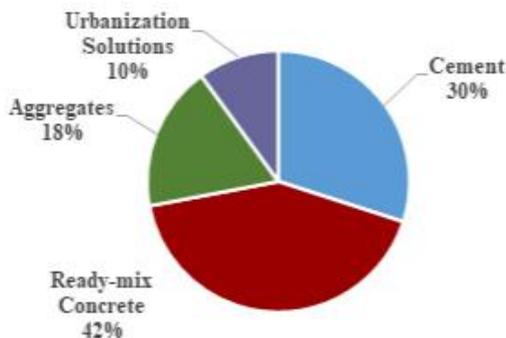


As a result of increases in domestic cement and ready-mix concrete sales prices, an increase in ready-mix concrete sales volumes and ready-mix concrete sales volumes, and an increase in cement exports sales, partially offset by a decrease in domestic cement sales volumes, our revenues in Mexico, in Mexican Peso terms, increased 9% in 2022 compared to 2021.

United States

Our domestic cement sales volumes from our operations in the United States increased 1% in 2022 compared to 2021, and ready-mix concrete sales volumes remained flat over the same period. The increase in domestic cement sales volumes were primarily attributable to strong demand momentum in a largely sold-out domestic market. Our operations in the United States represented 27% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our average domestic cement sales prices of our operations in the United States increased 16%, in Dollar terms, in 2022 compared to 2021, and our average ready-mix concrete sales price increased 15%, in Dollar terms, over the same period.

The following chart indicates the breakdown of United States revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

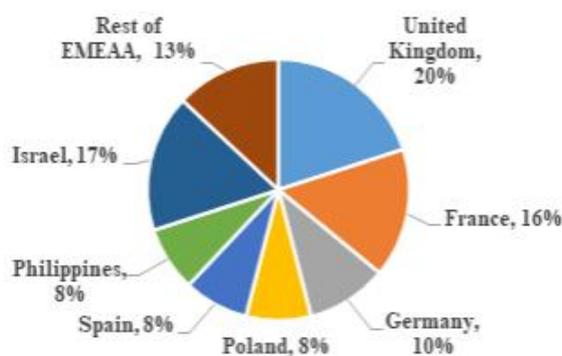


As a result of increases in domestic cement sales volumes and sales prices and ready-mix concrete sales prices, revenues from our operations in the United States, in Dollar terms, increased 16% in 2022 compared to 2021.

EMEA

In 2022, our operations in the EMEA region consisted of our operations in the United Kingdom, France, Germany, Poland, Spain, Philippines and Israel, which represent the most significant operations in this region, in addition to the Rest of EMEA segment. Our revenues from our operations in the EMEA region represented 27% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. As of December 31, 2022, our operations in the EMEA region represented 23% of our total assets in Dollar terms. Set forth below is a quantitative and qualitative analysis of the effects of the various factors affecting our revenues for our main operations in the EMEA region.

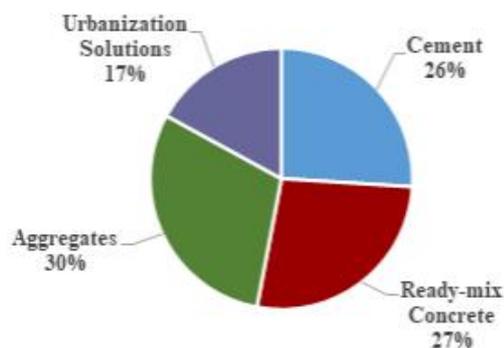
The following chart indicates the geographic breakdown of EMEA region revenues by reporting segment, before others and eliminations resulting from consolidation, for the year ended December 31, 2022:



United Kingdom

Our domestic cement sales volumes from our operations in the United Kingdom decreased 5% in 2022 compared to 2021, and ready-mix concrete sales volumes decreased 9% over the same period. The decreases in domestic cement and ready-mix concrete sales volumes reflected a decline in the market activity for the second half of the year, as the United Kingdom economy weakened and suffered severe weather for the months of November and December. Our operations in the United Kingdom represented 5% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in the United Kingdom increased 37%, in Pound terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 30%, in Pound terms, over the same period.

The following chart indicates the breakdown of United Kingdom revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

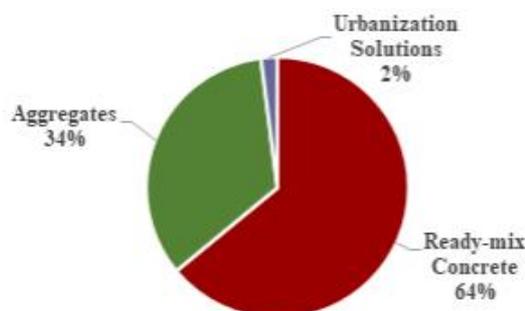


As a result of increases in domestic cement and ready-mix concrete sales prices, revenues from our operations in the United Kingdom, in Pound terms, increased 17% in 2022 compared to 2021.

France

Our ready-mix concrete sales volumes from our operations in France decreased 4% in 2022 compared to 2021. The decrease in volumes reflected a tight and dynamic supply and demand market. Our operations in France represented 4% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of ready-mix concrete of our operations in France increased 7%, in Euro terms, in 2022 compared to 2021.

The following chart indicates the breakdown of France revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

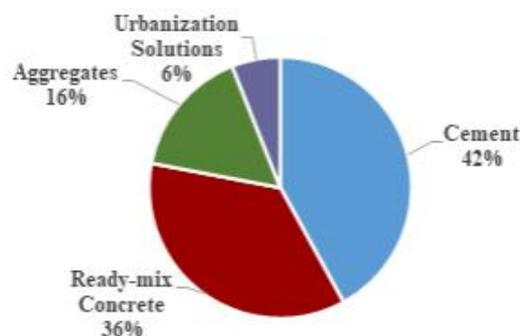


As a result of an increase in ready-mix concrete sales prices, partially offset by a decrease in ready-mix concrete sales volumes, revenues from our operations in France, in Euro terms, increased 2% in 2022 compared to 2021.

Germany

Our domestic cement sales volumes from our operations in Germany increased 8% in 2022 compared to 2021, and ready-mix concrete sales volumes decreased 6% over the same period. The increase in domestic cement sales volumes was mainly originated by an unfavorable weather condition in 2021 and the decrease in ready-mix concrete was mainly due to slowing demand in all markets. Our operations in Germany represented 3% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in Germany, which represented 20% of our Germany cement sales volumes for the year ended December 31, 2022 decreased 32% in 2022 compared to 2021, mainly due to lower volumes exported to Poland and Norway. All of our total cement export volumes from our operations in Germany during 2022 were to our EMEAA region. Our average sales price of domestic cement from our operations in Germany increased 17%, in Euro terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 9%, in Euro terms, over the same period.

The following chart indicates the breakdown of Germany revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

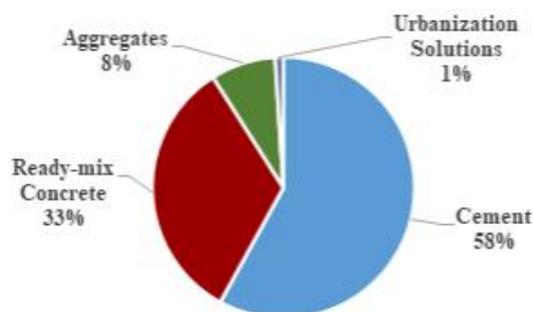


As a result of increases in domestic cement sales volumes and increases in sales prices, partially compensated by a decrease in ready-mix concrete sales volumes, revenues from our operations in Germany, in Euro terms, increased 16% in 2022 compared to 2021.

Poland

Our domestic cement sales volumes from our operations in Poland decreased 4% in 2022 compared to 2021, and ready-mix concrete sales volumes decreased 3% over the same period. The decrease in domestic cement and ready-mix concrete sales volumes were mainly due to price increases and project delays. Our operations in Poland represented 2% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in Poland, which represented 1% of our Poland cement sales volumes for the year ended December 31, 2022 decreased 13% in 2022 compared to 2021. All of our total cement export volumes from our operations in Poland during 2022, were to our Rest of EMEAA segment. Our average sales price of domestic cement from our operations in Poland increased 24%, in Euro terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 22%, in Euro terms, over the same period.

The following chart indicates the breakdown of Poland revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

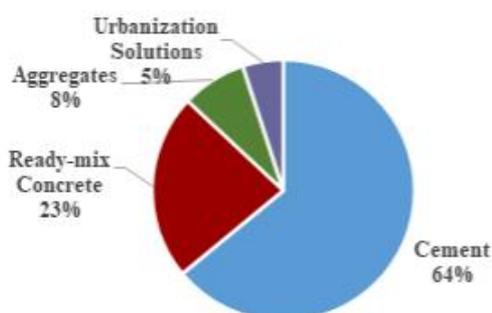


As a result of increases in domestic cement and ready-mix concrete sales prices, partially offset by decreases in domestic cement and ready-mix concrete sales volumes, revenues from our operations in Poland, in Euro terms, increased 17% in 2022 compared to 2021.

Spain

Our domestic cement sales volumes from our operations in Spain remained flat in 2022 compared to 2021, while ready-mix concrete sales volumes decreased 3% over the same period. The decreases in ready-mix concrete sales volumes were mainly driven by lower construction activity in all regions. Our operations in Spain represented 2% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in Spain, which represented 29% of our Spain cement sales volumes for the year ended December 31, 2022, increased 8% in 2022 compared to 2021, due to higher export volumes to United Kingdom. Of our total cement export volumes from our operations in Spain during 2022, 99% were to the United Kingdom and 1% were to Rest of EMEAA region. Our average sales price of domestic cement of our operations in Spain increased 30%, in Euro terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 23%, in Euro terms, over the same period.

The following chart indicates the breakdown of Spain revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

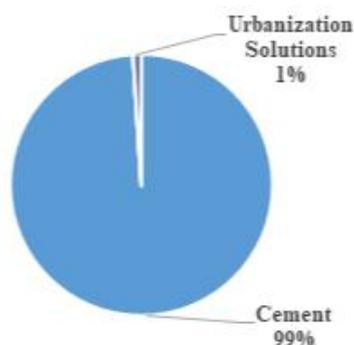


As a result of increases in domestic cement and ready-mix concrete sales prices, partially offset by a decrease in ready-mix concrete sales volume, revenues from our operations in Spain, in Euro terms, increased 20% in 2022 compared to 2021.

The Philippines

Our domestic cement sales volumes from our operations in the Philippines decreased 10% in 2022 compared to 2021. The decrease in domestic cement volumes was mainly due to public and private projects experiencing financial constraints due to the increasing cost of materials. Delays in government releasing additional funds and approvals of new public projects, as well as loss of volumes related to price increase in July. Our cement export volumes from our operations in the Philippines, which represented less than 1% of our Philippines' cement sales volumes for the year ended December 31, 2022, decreased 35% in 2022 compared to 2021. All of our total cement exports from our operations in Philippines during 2022 were to the Rest of EMEAA segment. Our revenues from our operations in the Philippines represented 2% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in the Philippines increased 9%, in Philippine Peso terms, in 2022 compared to 2021.

The following chart indicates the breakdown of Philippines revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

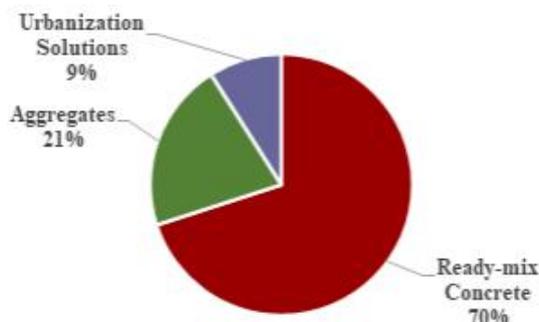


As a result of a decrease in domestic cement sales volumes, partially compensated by an increase in sales prices, revenues of our operations in the Philippines, in Philippine Peso terms, decreased 2% in 2022 compared to 2021.

Israel

Our ready-mix concrete sales volumes from our operations in Israel increased 4% in 2022 compared to 2021. Our operations in Israel represented 5% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of ready-mix concrete of our operations in Israel increased 10%, in Israeli New Shekel terms, in 2022 compared to 2021.

The following chart indicates the breakdown of Israel revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

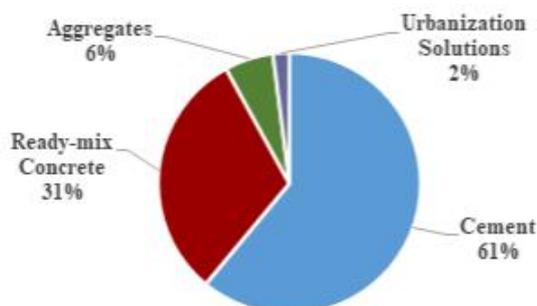


As a result of increases in ready-mix concrete sales volumes and prices, revenues from our operations in Israel, in Israeli New Shekel terms, increased 12% in 2022 compared to 2021.

Rest of EMEAA

Our domestic cement sales volumes from our operations in the Rest of EMEAA segment increased 8% in 2022 compared to 2021, and ready-mix concrete sales volumes increased 3% over the same period. Our cement export volumes from our operations in the Rest of EMEAA segment, which represented 6% of our Rest of EMEAA segment cement sales volumes for the year ended December 31, 2022, decreased 34% in 2022 compared to 2021. Of our total cement export volumes from our operations in the Rest of EMEAA segment during 2022, 99% were to countries in the EMEAA region and 1% were to Poland. Our revenues from our operations in the Rest of EMEAA segment represented 4% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in the Rest of EMEAA segment increased 27%, in Euro terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 22%, in Euro terms, over the same period.

The following chart indicates the breakdown of Rest of EMEAA revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

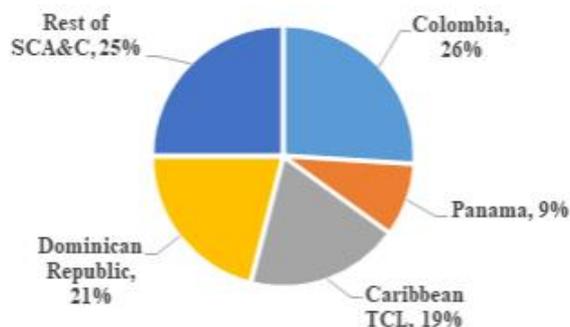


As a result of increases in domestic cement and ready-mix concrete sales volumes, as well, as increases in domestic cement and ready-mix concrete sales prices, revenues in the Rest of EMEAA segment, in Euro terms, increased 29%, in 2022 compared to 2021.

SCA&C

In 2022, our operations in the SCA&C region consisted of our operations in Colombia, Panama, the Dominican Republic, our Caribbean TCL operations, which represent our most significant operations in this region, and the Rest of SCA&C segment. Our revenues from our operations in the SCA&C region represented 9% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. As of December 31, 2022, our operations in the SCA&C region represented 8% of our total assets, in Dollar terms. Set forth below is a quantitative and qualitative analysis of the effects of the various factors affecting our revenues for our main operations in the SCA&C region.

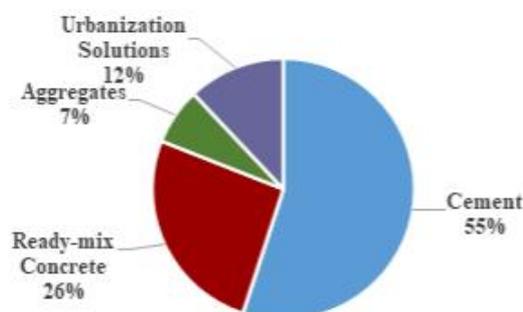
The following chart indicates the geographic breakdown of SCA&C region revenues by reporting segment, before others and eliminations resulting from consolidation, for the year ended December 31, 2022:



Colombia

Our domestic cement sales volumes from our operations in Colombia decreased 1% in 2022 compared to 2021, and ready-mix concrete sales volumes increased 14% over the same period. The decrease in cement sales volume in Colombia was mainly due to our prices increasing and our ready-mix concrete sales volume increasing in tandem due to the recovery of the concrete industry, mainly supported by formal sector demand, in industrial and residential. Our revenues from our operations in Colombia represented 2% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in Colombia increased 8%, in Colombian Peso terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 4%, in Colombian Peso terms, over the same period.

The following chart indicates the breakdown of Colombia revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

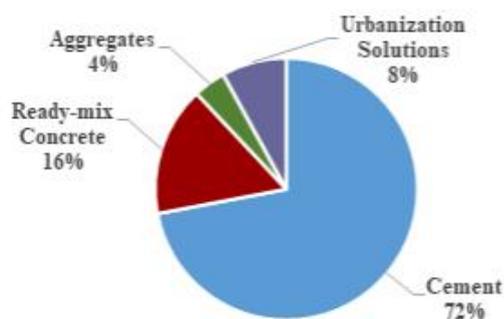


As a result of increases in ready-mix concrete sales volumes and increases in domestic cement and ready-mix concrete sales prices, partially offset by a decrease in domestic cement sales volume, revenues of our operations in Colombia, in Colombian Peso terms, increased 11% in 2022 compared to 2021.

Panama

Our domestic cement sales volumes from our operations in Panama increased 7% in 2022 compared to 2021, and ready-mix concrete sales volumes increased 44% over the same period. The increases in domestic cement and ready-mix concrete sales volumes in Panama were mainly due to increased activity in the infrastructure sector, largely due to work related to a third metro line. Our cement export volumes from our operations in Panama, which represented 62% of our Panama cement sales volumes for the year ended December 31, 2022, increased 16% in 2022 compared to 2021. Our revenues from our operations in Panama represented 1% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in Panama decreased 4% in Dollar terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 4%, in Dollar terms, over the same period.

The following chart indicates the breakdown of Panama revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

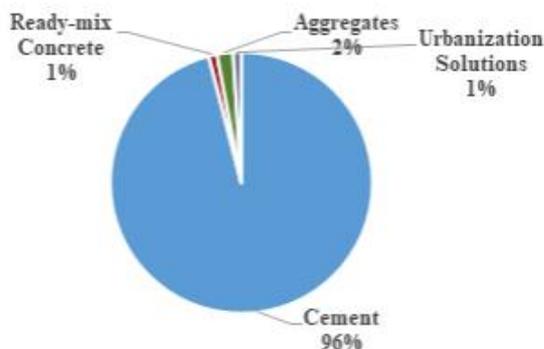


As a result of increases in domestic cement sales volumes and ready-mix concrete sales volumes and sales price, partially offset by a decrease in domestic cement sales price, revenues of our operations in Panama, in Dollar terms, increased 23% in 2022 compared to 2021.

Caribbean TCL

Our domestic cement sales volumes from our operations in Caribbean TCL decreased 2% in 2022 compared to 2021, and ready-mix concrete sales volumes decreased 35% over the same period. The decreases in cement and ready-mix sales volume came from lower demand. Our revenues from our operations in Caribbean TCL represented 2% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in Caribbean TCL segment represented 19% of our Caribbean TCL cement sales volumes for the year ended December 31, 2022, decreased 8% in 2022 compared to 2021. All of our total cement exports from our operations in Caribbean TCL during 2022 were to the Rest of SCA&C segment. Our average sales price of domestic cement of our operations in Caribbean TCL increased 13%, in Trinidad and Tobago Dollar terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 8%, in Trinidad and Tobago Dollar terms, over the same period.

The following chart indicates the breakdown of Caribbean TCL revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

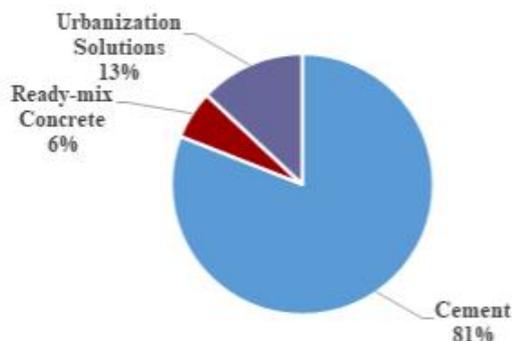


As a result of increases in domestic cement and ready-mix concrete sales prices, partially offset by decreases in domestic cement and ready-mix concrete sales volumes, revenues of our operations in Caribbean TCL, in Trinidad and Tobago Dollar terms, increased 8% in 2022 compared to 2021.

Dominican Republic

Our domestic cement sales volumes from our operations in the Dominican Republic decreased 7% in 2022 compared to 2021, while ready-mix concrete sales volumes increased 10% over the same period. The decrease in our domestic cement sales volumes in the Dominican Republic region was mainly due to a drop in retail cement demand, partially offset by higher bulk cement demand related to tourism projects. Domestic cement and ready-mix sales prices continued their positive trend. Our operations in the Dominican Republic represented 2% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in the Dominican Republic, which represented 3% of our Dominican Republic cement sales volumes for the year ended December 31, 2022, decreased 48% in 2022 compared to 2021. All of our total cement export volumes from our operations in the Dominican Republic during 2022, were to our Rest of SCA&C segment. Our average sales price of domestic cement of our operations in the Dominican Republic increased 18%, in Dominican Peso terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete increased 12%, in Dominican Peso terms, over the same period.

The following chart indicates the breakdown of Dominican Republic revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:

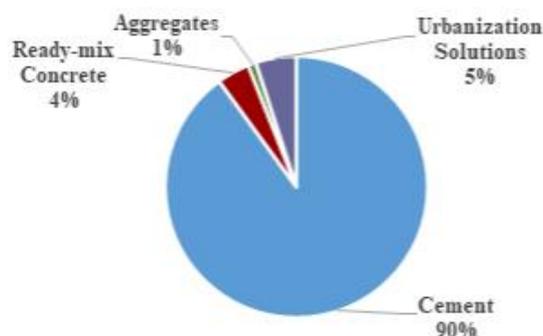


As a result of increases in ready-mix concrete sales volume and domestic cement and ready-mix concrete sales prices, partially offset by a decrease in domestic cement sales volume, revenues from our operations in the Dominican Republic, in Dominican Peso terms, increased 12% in 2022 compared to 2021.

Rest of SCA&C

Our domestic cement volumes from our operations in the Rest of SCA&C segment decreased 19% in 2022 compared to 2021, and ready-mix concrete sales volumes decreased 33% over the same period. Our cement export volumes from our operations in the Rest of SCA&C segment, which represented less than 1% of our Rest of SCA&C segment cement sales volumes for the year ended December 31, 2022, decreased 35% in 2022 compared to 2021. All of our total cement export volumes from our operations in the Rest of SCA&C segment during 2022, were within the same region. Our revenues from our operations in the Rest of SCA&C segment represented 2% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in the Rest of SCA&C segment increased 13% in Dollar terms, in 2022 compared to 2021, and our average sales price of ready-mix concrete decreased 8%, in Dollar terms, over the same period.

The following chart indicates the breakdown of Rest of SCA&C revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2022:



As a result of decreases in domestic cement and ready-mix concrete sales volumes and ready-mix concrete sales price, revenues of our operations in the Rest of SCA&C segment, in Dollar terms, decreased 15% in 2022 compared to 2021.

Others (Revenues)

Revenues from our Others segment increased 76% before intra-sector eliminations within the segment and before eliminations resulting from consolidation, as applicable, in 2022 compared to 2021, in Dollar terms. The increase resulted mainly from higher revenues in our trading operations. Our revenues from our Others segment represented 16% of our total revenues for the year ended December 31, 2022, in Dollar terms, before eliminations resulting from consolidation. For the year ended December 31, 2022, our trading operations represented 69% of our revenues in our Others segment, in Dollar terms.

Cost of Sales

Our cost of sales, including depreciation, increased 10%, from \$9,743 million in 2021 to \$10,755 million in 2022. As a percentage of revenues, cost of sales increased from 68% in 2021 to 69% in 2022. Our cost of sales includes freight expenses of raw materials used in our producing plants.

Gross Profit

For the reasons described above, our gross profit increased 4% from \$4,636 million in 2021 to \$4,822 million in 2022. As a percentage of revenues, gross profit decreased from 32% in 2021 to 31% in 2022. In addition, our gross profit may not be directly comparable to those of other entities that include all their freight expenses in cost of sales. As described below, we include freight expenses of finished products from our producing plants to our points of sale and from our points of sale to our customers' locations within operating expenses as part of distribution and logistics expenses.

Operating expenses

Our operating expenses, which are represented by administrative, selling and distribution and logistics expenses, increased 12%, from \$2,917 million in 2021 to \$3,261 million in 2022. As a percentage of revenues, operating expenses increased from 20% in 2021 to 21% in 2022. The increase as a percentage of revenues resulted primarily from higher logistic and distribution expenses due to higher fuel costs. Our operating expenses include expenses related to personnel, equipment and services involved in sales activities and storage of product at points of sale, which are included as part of the operating expenses, as well as freight expenses of finished products between plants and points of sale and freight expenses between points of sale and the customers' facilities, which are included as part of the line item "Distribution and logistics expenses." For the years ended December 31, 2021 and 2022, selling expenses included as part of the line item "Operating expenses" amounted to \$322 million and \$363 million, respectively. As discussed above, we include freight expenses of finished products from our producing plants to our points of sale and from our points of sale to our customers' locations within distribution and logistics expenses, which in the aggregate represented costs of \$1,637 million in 2021 and \$1,824 million in 2022. As a percentage of revenues, distribution and logistics expenses increased from 11% in 2021 to 12% in 2022.

Operating Earnings Before Other Expenses, Net

For the reasons described above, our operating earnings before other expenses, net decreased 9% from \$1,719 million in 2021 to \$1,561 million in 2022. As a percentage of revenues, operating earnings before other expenses, net decreased 2%, from 12% in 2021 to 10% in 2022. Additionally, set forth below is a quantitative and qualitative analysis of the effects of the various factors affecting our operating earnings before other expenses, net on a reporting segment basis.

Mexico

Our operating earnings before other expenses, net, from our operations in Mexico decreased 6% in 2022 compared to 2021, in Mexican Peso terms. Our operating earnings before other expenses, net from our operations in Mexico represented 62% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from the increase in our cost of sales and operating expenses due to inflation, partially offset by an increase in revenues driven by home improvements and governmental social spending.

United States

Our operating earnings before other expenses, net, from our operations in the United States decreased 2% in 2022 compared to 2021, in Dollar terms. Our operating earnings before other expenses, net from our operations in the United States represented 20% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from the increase in our cost of sales due to higher imports and higher costs of fuel and raw material, partially offset by an increase in our revenues in the United States segment.

EMEA

United Kingdom. Our operating earnings before other expenses, net, from our operations in the United Kingdom increased 110%, in Pound terms, in 2022 compared to 2021. Our operating earnings before other expenses, net from our operations in the United Kingdom represented 9% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The increase resulted primarily from the increase in our revenues in the United Kingdom, partially offset by higher costs of sale, due to increase in imported clinker, purchase cement and higher electricity, fuel and raw material costs.

France. Our operating earnings before other expenses, net, from our operations in France decreased 68%, in Euro terms, in 2022 compared to 2021. Our operating earnings before other expenses, net from our operations in France represented 1% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from the increase in our cost of sales, due to higher energy and raw material costs and higher distribution and logistics expenses.

Germany. Our operating earnings before other expenses, net, from our operations in Germany decreased 64%, in Euro terms, in 2022 compared to 2021. Our operating earnings before other expenses, net from our operations in Germany represented 1% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from our cost of sales increase, mainly in energy, raw material and freight costs.

Poland. Our operating earnings before other expenses, net, from our operations in Poland decreased 1% in 2022 compared to 2021, in Euro terms. Our operating earnings before other expenses, net from our operations in Poland represented 3% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from higher operational costs, such as energy and raw material costs, purchase clinker costs and higher freight costs due to fuel price increases.

Spain. Our operating loss before other expenses, net, from our operations in Spain decreased 38% in 2022 compared to 2021, in Euro terms. Our operating loss before other expenses, net from our operations in Spain represented a loss of \$22 million, which was a negative impact of 1% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from higher revenues due to price increases, which were partially offset by the higher cost of sales, mainly higher electric power, raw material and fuel costs.

The Philippines. Our operating earnings before other expenses, net, from our operations in the Philippines decreased 31% in 2022 compared to 2021, in Philippine Peso terms. Our operating earnings before other expenses, net from our operations in the Philippines represented 3% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from the decrease in our revenues, as well as the higher cost of sales.

Israel. Our operating earnings before other expenses, net, from our operations in Israel increased 16% in 2022 compared to 2021, in Israeli New Shekel terms. Our operating earnings before other expenses, net from our operations in Israel represented 4% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The increase in Israel operating earnings resulted primarily from the increase in our revenues.

Rest of EMEAA. Our operating earnings before other expenses, net, from our operations in the Rest of EMEAA segment increased 123% in 2022 compared to 2021, in Euro terms. Our operating earnings before other expenses, net from our operations in the Rest of EMEAA segment represented 3% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. This increase relates primarily to an increase in our revenues.

SCA&C

Colombia. Our operating earnings before other expenses, net, from our operations in Colombia decreased 31% in 2022 compared to 2021, in Colombian Peso terms. Our operating earnings before other expenses, net from our operations in Colombia represented 2% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from the increase in our cost of sales, mainly due to higher energy, fuel and raw material costs.

Panama. Our operating earnings before other expenses, net, from our operations in Panama decreased 20% in 2022 compared to 2021. Our operating earnings before other expenses, net from our operations in Panama represented 1% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from the increase in our cost of sales, such as fuel and raw materials.

Caribbean TCL. Our operating earnings before other expenses, net, from our operations in Caribbean TCL increased 25% in 2022 compared to 2021, in Trinidad and Tobago Dollar terms. Our operating earnings before other expenses, net from our Caribbean TCL operations represented 4% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The increase resulted primarily from an increase in our revenues.

Dominican Republic. Our operating earnings before other expenses, net, from our operations in the Dominican Republic remained flat in 2022 compared to 2021, in Dominican Peso terms. Our operating earnings before other expenses, net from our operations in the Dominican Republic represented 8% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The increase in our revenues was offset by higher operating expenses and costs of sales.

Rest of SCA&C. Our operating earnings before other expenses, net, from our operations in the Rest of SCA&C segment decreased 21% in 2022 compared to 2021, in Dollar terms. Our operating earnings before other expenses, net from our operations in the Rest of SCA&C segment represented 5% of our total operating earnings before other expenses, net for the year ended December 31, 2022, in Dollar terms. The decrease resulted primarily from lower revenues.

Others. Our operating loss before other expenses, net, from our operations in our Others segment increased 33% in 2022 compared to 2021, in Dollar terms. The increase in the operating loss before other expenses resulted primarily from an increase in cost of sales, partially offset by higher revenues.

Other Expenses, Net. Our other expenses, net, increased significantly, in Dollar terms, from an expense of \$82 million in 2021 to an expense of \$467 million in 2022. The increase in our other expenses, net, in 2022 resulted primarily from an income in 2021 for the sale of 12.3 million emission allowances for a total of \$600 million. In 2022, we had a reduction of non-cash impairment losses from \$513 million in 2021 to \$442 million in 2022. In 2022, impairment losses includes aggregate impairment losses of goodwill of \$365 million related to the operating segments in the United States and Spain, as well as impairment losses of fixed assets of \$77 million, while the aggregate non-cash impairment losses of 2021 included impairment losses of goodwill of \$440 million related to the operating segments in Spain, the United Arab Emirates and the information technology business, impairment losses of internally developed software capitalized in prior years and other intangible assets of \$53 million, as well as impairment losses of fixed assets of \$43 million. Moreover, we had an increase in our restructuring cost in the year ended December 31, 2022 compared to the same period in 2021. See notes 15.1, 16.1 and 16.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

The most significant items included under this caption for the years ended December 31, 2021 and 2022, are as follows:

	For the Years Ended December 31,	
	2021	2022
	(in millions of Dollars)	
Impairment losses	\$ (513)	\$ (442)
Results from the sale of assets and others, net	(126)	9
Incremental costs and expenses related to the COVID-19 pandemic	(26)	(14)
Restructuring costs	(17)	(20)
Sale of CO ₂ Allowances	600	—
	<u>\$ (82)</u>	<u>\$ (467)</u>

Financial expense. Our financial expense decreased 39%, from \$658 million in 2021 to \$401 million in 2022, primarily attributable to a decrease in our financial debt during 2022 compared to 2021 and gains of \$104 million from debt tender offers and other market transactions reducing debt during the year. See note 17.1 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Financial income and other items, net. Our financial income and other items, net, in Dollar terms, increased 159%, from an expense of \$79 million in 2021 to an income of \$47 million in 2022. The increase is mainly due to a gain in foreign exchange results in 2022 compared to a loss in 2021 that was mainly due to the fluctuation of the Mexican Peso against the Dollar and higher financial income, which was partially offset by an increase in effects of amortized cost of assets and liabilities. See notes 8.2 and 18.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

The most significant items included under this caption for the years ended December 31, 2021 and 2022 are as follows:

	For the Year Ended December 31,	
	2021	2022
	(in millions of Dollars)	
Financial income and other items, net:		
Effects of amortized cost on assets and liabilities and others, net	\$ (28)	\$ (32)
Net interest cost of pension liabilities	(25)	(26)
Results from financial instruments, net	(6)	(5)
Foreign exchange results	(35)	73
Financial income	22	27
Other	(7)	10
	<u>\$ (79)</u>	<u>\$ 47</u>

Income Taxes. Our income tax effect in the statements of operations, which is comprised of current income taxes plus deferred income taxes, increased from an expense of \$137 million in 2021 to \$209 million in 2022. Our current income tax expense decreased from \$172 million in 2021 to \$170 million in 2022, mainly as a result of a decrease in taxes in Spain, partially offset by increases in taxes in Colombia and the Philippines. Our deferred income tax income increased from a deferred income tax income of \$35 million in 2021 to a deferred income tax expense of \$39 million in 2022, mainly associated with the amortization of tax losses in Mexico and the United States in 2022. See notes 20.1, 20.2, 20.3 and 20.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

For each of the years ended December 31, 2021 and 2022, our statutory income tax rate in Mexico was 30%. Considering a decrease in our earnings before income tax from a gain of \$954 million in 2021 to earnings before income tax of \$770 million in 2022, as well as differences between accounting and tax expenses, our average effective income tax rate increased from an effective income tax rate of 14.4% in 2021 to an effective income tax rate of 27.1% in 2022. Our average effective tax rate equals the net amount of income tax expense divided by earnings before income taxes, as these line items are reported in our consolidated statements of operations. See “Risk Factors—Risks Relating to Our Business—Certain tax matters may have a material adverse effect on our cash flow, financial condition and net income, as well as on our reputation” and note 20.3 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Net Income from continuing operations. For the reasons described above, our net income from continuing operations for 2022 decreased from a net income from continuing operations of \$817 million in 2021 to a net income from continuing operations of \$561 million in 2022. As a percentage of revenues, net income from continuing operations represented 6% for the year ended as of December 31, 2021, and a net income from continuing operations represented 4% for the year ended as of December 31, 2022.

Discontinued operations. For the years ended December 31, 2021 and 2022, our discontinued operations included in our consolidated statements of operations amounted to a net loss from discontinued operations of \$39 million and a net income from discontinued operations of \$324 million, respectively. As a percentage of revenues, loss of discontinued operations, net of tax, represented 0.3% for the year ended as of December 31, 2021 and the income of discontinued operations, net of tax, represented 2% for the year ended as of December 31, 2022. See note 4.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Consolidated Net Income. For the reasons described above, our consolidated net income (before deducting the portion allocable to non-controlling interest) for 2022 increased from a consolidated net income of \$778 million in 2021 to a consolidated net income of \$885 million in 2022. As a percentage of revenues, consolidated net income represented 5% for the year ended as of December 31, 2021 and consolidated net income represented 6% for the year ended as of December 31, 2022.

Non-controlling Interest Net Income. Changes in non-controlling interest net income in any period reflect changes in the percentage of the stock of our subsidiaries held by non-associated third parties as of the end of each month during the relevant period and the consolidated net income attributable to those subsidiaries.

Non-controlling interest net income increased 8%, from an income of \$25 million in 2021 to an income of \$27 million in 2022, primarily attributable to an increase in the net income of the consolidated entities in which others have a non-controlling interest. See note 21.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Controlling Interest Net Income. Controlling interest net income represents the difference between our consolidated net income and non-controlling interest net income, which is the portion of our consolidated net income attributable to those of our subsidiaries in which non-associated third parties hold interests. For the reasons described above, our controlling interest net income increased from a controlling interest net income of \$753 million in 2021 to a controlling interest net income of \$858 million in 2022. As a percentage of revenues, controlling interest net income, represented 5% for the year ended as of December 31, 2021 and controlling interest net income, represented 6% for the year ended as of December 31, 2022.

Year Ended December 31, 2021 Compared to Year Ended December 31, 2020

Summarized in the table below are the percentage (%) increases (+) and decreases (-) for the year ended December 31, 2021 compared to the year ended December 31, 2020 in our domestic cement and ready-mix concrete sales volumes, as well as export sales volumes of cement and domestic cement and ready-mix concrete average sales prices for each of our reporting segments.

Reporting segments represent the components of CEMEX that engage in business activities from which we may earn revenues and incur expenses, whose operating results are regularly reviewed by the entity's top management to make decisions about resources to be allocated to the segments and assess their performance, and for which discrete financial information is available. We operate geographically and by line of business on a regional basis. For the reported periods, the Company's operations were organized in four geographical regions, each under the supervision of a regional president, as follows: 1) Mexico, 2) United States, 3) EMEAA and 4) SCA&C. The accounting policies applied to determine the financial information by reporting segment are consistent with those described in note 2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

As of December 31, 2021, considering similar regional and economic characteristics and/or materiality, certain countries have been aggregated and presented as single line items as follows: (i) "Rest of EMEAA" refers mainly to CEMEX's operations and activities in the Czech Republic, Croatia, Egypt and the UAE; (ii) "Rest of SCA&C" refers mainly to CEMEX's operations and activities in Puerto Rico, Nicaragua, Jamaica, the Caribbean and Guatemala, excluding the operations of TCL; and (iii) "Caribbean TCL" refers to TCL's operations mainly in Trinidad and Tobago, Jamaica, Guyana and Barbados. The segment "Others" refers to: (1) cement trade maritime operations, (2) CEMEX, S.A.B. de C.V., (3) other corporate entities and finance subsidiaries and (4) other minor subsidiaries with different lines of business.

The table below and the other volume data presented by reporting segment in this section are presented before eliminations resulting from consolidation (including those shown in note 4.3 to our 2022 audited consolidated financial statements included in the February 23 6-K).

Reporting Segment	Variation in Local Currency(t)	Approximate Currency Fluctuations	Variation in Dollars	Revenues For the Year Ended	
				2020	2021
Spain	+9%	+4%	+12%	319	359
Philippines	+6%	+1%	+7%	398	424
Israel	-2%	+6%	+4%	754	785
Rest of EMEAA	+3%	+3%	+6%	582	618
SCA&C					
Colombia	+11%	-3%	+8%	404	437
Panama	+51%	—	+51%	80	121
Caribbean TCL	+11%	+1%	+12%	251	280
Dominican Republic	+31%	-1%	+30%	229	299
Rest of SCA&C	+18%	—	+18%	393	465
Others	>+100%	—	>+100%	796	1,621
Revenues from continuing operations before eliminations resulting from consolidation			+19%	\$13,371	\$15,914
Eliminations resulting from consolidation				(702)	(1,535)
Revenues from continuing operations			13%	<u>\$12,669</u>	<u>\$14,379</u>

Reporting Segment	Variation in Local Currency ⁽¹⁾	Approximate Currency Fluctuations	Variation in Dollars (in millions of Dollars)	Operating Earnings Before Other Expenses, Net For the Year Ended December 31,	
				2020	2021
Mexico	+22%	+6%	+28%	\$ 783	\$ 1,003
United States	+2%	—	+2%	307	314
EMEAA					
United Kingdom	+230%	+13%	+243%	21	72
France	+88%	-1%	+87%	23	43
Germany	+4%	+1%	+5%	39	41
Poland	-5%	+3%	-2%	49	48
Spain	-157%	-22%	-179%	(14)	(39)
Philippines	+2%	+1%	+3%	72	74
Israel	-35%	+14%	-21%	87	69
Rest of EMEAA	+60%	+3%	+63%	19	31
SCA&C					
Colombia	+2%	-2%	FLAT	61	61
Panama	+504%	—	+504%	(4)	15
Caribbean TCL	+6%	+1%	+7%	43	46
Dominican Republic	+59%	FLAT	+59%	76	121
Rest of SCA&C	+14%	—	+14%	85	97
Others	+22%	—	+22%	(355)	(277)
Operating earnings before other expenses, net from continuing operations			+33%	<u>\$ 1,292</u>	<u>\$ 1,719</u>

“—” = Not Applicable

- (1) Represents the variation in local currency terms. For purposes of a reporting segment consisting of a region, the variation in local currency terms for each individual country within the region are first translated into Dollar terms (except for the Rest of EMEAA segment, in which they are translated first into Euros) at the exchange rates in effect as of the end of the reporting period. Variations for a region represent the change in Dollar terms (except for the Rest of EMEAA segment, in which they represent the change in Euros), net, in the region.

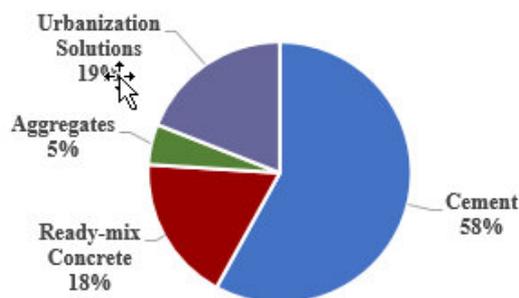
Revenues. Our consolidated revenues increased 13% from \$12,669 million in 2020 to \$14,379 million in 2021. The increase in our revenues was mainly attributable to the higher volumes in most of our regions and higher prices of our products in local currency terms in all of our regions. Set forth below is a quantitative and qualitative analysis of the various factors affecting our revenues on a reporting segment basis. The discussion of volume data and revenues information below is presented before eliminations resulting from consolidation as described in note 4.3 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Mexico

Our domestic cement sales volumes from our operations in Mexico increased 8% in 2021 compared to 2020, and ready-mix concrete sales volumes increased 8% over the same period. Our revenues from our operations in Mexico represented 22% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. During the year, bagged cement demand grew double digits supported by government social programs and record level remittances. The country continues to experience a pickup in the formal economy, and bulk cement and ready-mix volumes benefitted from higher formal housing and industrial activity. The latter was supported by growth in manufacturing and warehouses, onshoring, as well as the buildout of logistic networks. Our cement export volumes from our operations in Mexico, which represented 11% of our Mexican cement

sales volumes for the year ended December 31, 2021, decreased 1% in 2021 compared to 2020, due to lower export volume. Of our total cement export volumes from our operations in Mexico during 2021, 83% was shipped to the United States and 17% to our SCA&C segment. Our average sales price of domestic cement from our operations in Mexico increased 7%, in Mexican Peso terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete increased 3%, in Mexican Peso terms, over the same period.

The following chart indicates the breakdown of Mexico revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

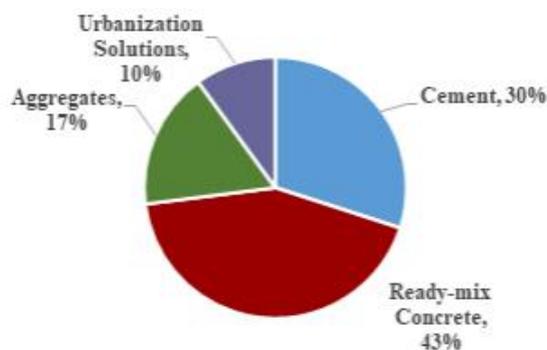


As a result of increases in domestic cement and ready-mix concrete sales volumes and sale prices, partially offset by a decrease in cement export sales, our revenues in Mexico, in Mexican Peso terms, increased 17% in 2021 compared to 2020.

United States

Our domestic cement sales volumes from our operations in the United States increased 6% in 2021 compared to 2020, and ready-mix concrete sales volumes increased 8% over the same period. The increase in domestic cement and ready-mix concrete sales volumes were primarily attributable to the strong demand momentum driven mainly by the residential sector. The region continued to enjoy strong demand across all products with most of our markets sold out. Our operations in the United States represented 27% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our average domestic cement sales prices of our operations in the United States increased 3%, in Dollar terms, in 2021 compared to 2020, and our average ready-mix concrete sales price increased 2%, in Dollar terms, over the same period.

The following chart indicates the breakdown of United States revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

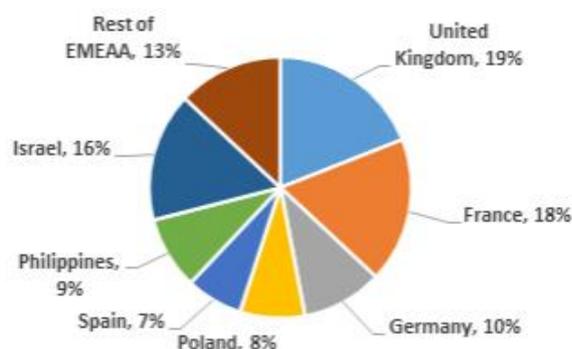


As a result of increases in domestic cement sales volumes and ready-mix concrete sales volumes and sales prices, revenues from our operations in the United States, in Dollar terms, increased 9% in 2021 compared to 2020.

EMEA

In 2021, our operations in the EMEA region consisted of our operations in the United Kingdom, France, Germany, Poland, Spain, Philippines and Israel, which represent the most significant operations in this region, in addition to the Rest of EMEA segment. Our revenues from our operations in the EMEA region represented 31% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. As of December 31, 2021, our operations in the EMEA region represented 25% of our total assets, in Dollar terms. Set forth below is a quantitative and qualitative analysis of the effects of the various factors affecting our revenues for our main operations in the EMEA region.

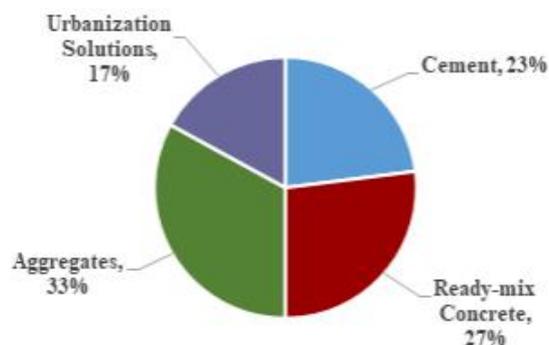
The following chart indicates the geographic breakdown of EMEA region revenues by reporting segment, before others and eliminations resulting from consolidation, for the year ended December 31, 2021:



United Kingdom

Our domestic cement sales volumes from our operations in the United Kingdom increased 19% in 2021 compared to 2020, and ready-mix concrete sales volumes increased 3% over the same period. The increases in domestic cement and ready-mix concrete sales volumes reflected a return to normality in construction activity as a result of the implementation of stringent measures during 2020 as a response to the COVID-19 pandemic. Our operations in the United Kingdom represented 6% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in the United Kingdom increased 7% in Pound terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete increased 7%, in Pound terms, over the same period.

The following chart indicates the breakdown of United Kingdom revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

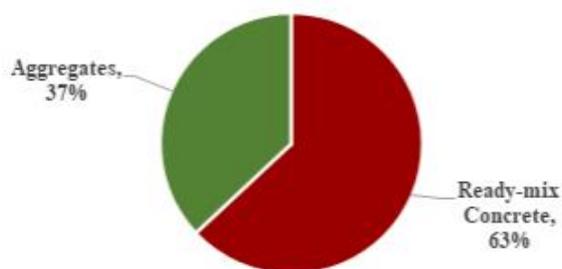


As a result of increases in domestic cement and ready-mix concrete sales volumes and sales prices, revenues from our operations in the United Kingdom, in Pound terms, increased 19% in 2021 compared to 2020.

France

Our ready-mix concrete sales volumes from our operations in France increased 8% in 2021 compared to 2020. The increase in volumes reflected a return to normality in construction activity as a result of the implementation of stringent measures during 2020 as a response to the COVID-19 pandemic. Our operations in France represented 5% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of ready-mix concrete of our operations in France increased 1%, in Euro terms, in 2021 compared to 2020.

The following chart indicates the breakdown of France revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

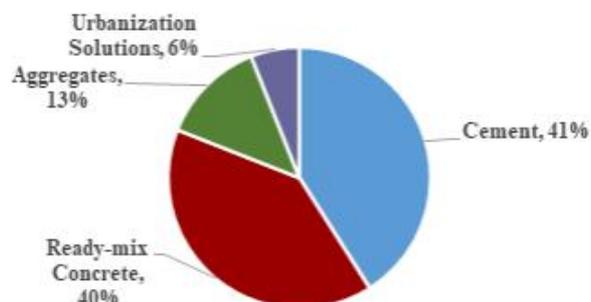


As a result of an increase in ready-mix concrete sales volumes and by increases in ready-mix concrete sales prices, revenues from our operations in France, in Euro terms, increased 12% in 2021 compared to 2020.

Germany

Our domestic cement sales volumes from our operations in Germany decreased 4% in 2021 compared to 2020, and ready-mix concrete sales volumes decreased 7% over the same period. The decreases in domestic cement and ready-mix concrete sales volumes was mainly originated by unfavorable weather condition in 2021. Our operations in Germany represented 3% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in Germany, which represented 31% of our Germany cement sales volumes for the year ended December 31, 2021 increased 5% in 2021 compared to 2020, mainly due to higher volumes exported to Poland. All of our total cement export volumes from our operations in Germany during 2021 were to our EMEAA region. Our average sales price of domestic cement from our operations in Germany increased 3%, in Euro terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete increased 6%, in Euro terms, over the same period.

The following chart indicates the breakdown of Germany revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

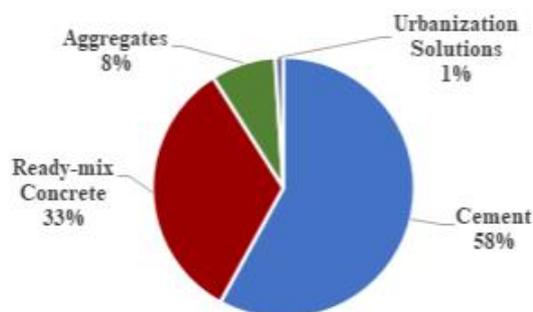


As a result of decreases in domestic cement and in ready-mix concrete sales volumes, partially compensated by increases in sales prices, revenues from our operations in Germany, in Euro terms, decreased 6% in 2021 compared to 2020.

Poland

Our domestic cement sales volumes from our operations in Poland increased 5% in 2021 compared to 2020, and ready-mix concrete sales volumes increased 9% over the same period. The increases in domestic cement and ready-mix concrete sales volumes were mainly driven by higher infrastructure and residential activity. Our operations in Poland represented 3% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in Poland, which represented less than 1% of our Poland cement sales volumes for the year ended December 31, 2021 decreased 54% in 2021 compared to 2020. All of our total cement export volumes from our operations in Poland during 2021, were to our Rest of EMEAA segment. Our average sales price of domestic cement from our operations in Poland increased 5%, in Euro terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete decreased 1%, in Euro terms, over the same period.

The following chart indicates the breakdown of Poland revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

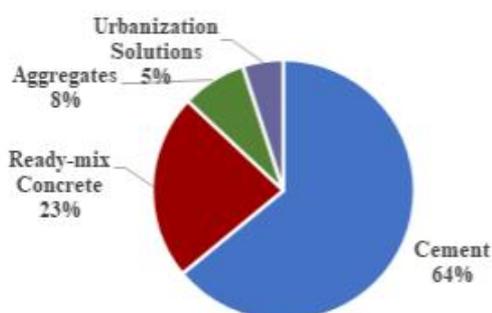


As a result of increases in domestic cement sales volumes and sales prices, and an increase in ready-mix concrete sales volumes, revenues from our operations in Poland, in Euro terms, increased 5% in 2021 compared to 2020.

Spain

Our domestic cement sales volumes from our operations in Spain increased 6% in 2021 compared to 2020, while ready-mix concrete sales volumes increased 7% over the same period. The increases in domestic cement and ready-mix concrete sales volumes were mainly driven by higher infrastructure and residential activity. Our operations in Spain represented 2% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in Spain, which represented 27% of our Spain cement sales volumes for the year ended December 31, 2021, increased 14% in 2021 compared to 2020, due to higher export volumes to United Kingdom. Of our total cement export volumes from our operations in Spain during 2021, 98% were to the United Kingdom and 2% were to the United States. Our average sales price of domestic cement of our operations in Spain decreased 1%, in Euro terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete increased 1%, in Euro terms, over the same period.

The following chart indicates the breakdown of Spain revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

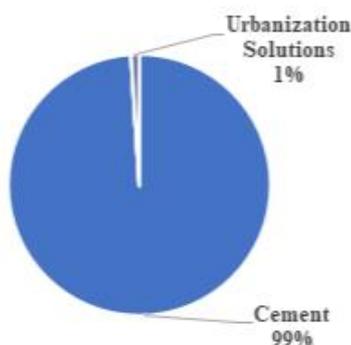


As a result of increases in domestic cement and ready-mix concrete sales volumes, partially offset by decreases in domestic cement sales prices, revenues from our operations in Spain, in Euro terms, increased 9% in 2021 compared to 2020.

The Philippines

Our domestic cement sales volumes from our operations in the Philippines increased 7% in 2021 compared to 2020. The increase in domestic cement volumes was mainly due to the implementation of stringent lock-down measures during 2020 as a response to the COVID-19 pandemic imposed by the Philippines government and by the closure of our Solid Cement Plant in Luzon for two months in 2020 and resumption of operations without such measures during 2021. Our cement export volumes from our operations in the Philippines, which represented less than 1% of our Philippines' cement sales volumes for the year ended December 31, 2021, decreased 14% in 2021 compared to 2020. All of our total cement exports from our operations in Philippines during 2021 were to the Rest of EMEAA segment. Our revenues from our operations in the Philippines represented 3% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in the Philippines decreased 2%, in Philippine Peso terms, in 2021 compared to 2020.

The following chart indicates the breakdown of Philippines revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

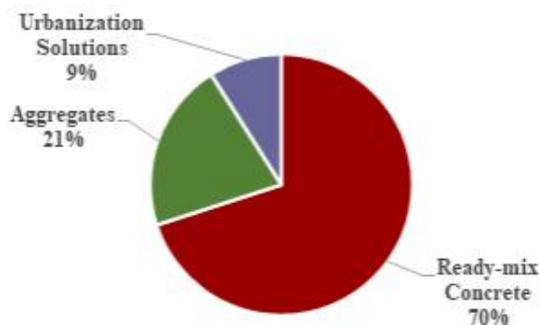


As a result of an increase in domestic cement sales volumes, partially compensated by a decrease in sales prices, revenues of our operations in the Philippines, in Philippine Peso terms, increased 6% in 2021 compared to 2020.

Israel

Our ready-mix concrete sales volumes from our operations in Israel decreased slightly in 2021 compared to 2020. Our operations in Israel represented 5% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of ready-mix concrete of our operations in Israel decreased slightly, in Israeli New Shekel terms, in 2021 compared to 2020.

The following chart indicates the breakdown of Israel revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

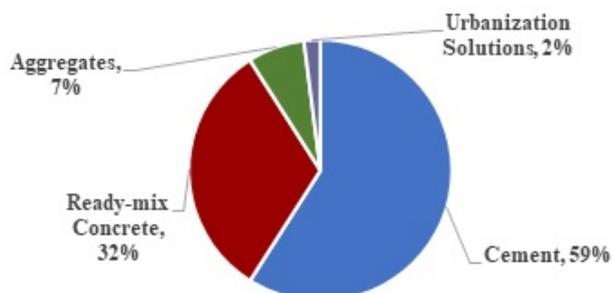


As a result of a small decrease in ready-mix concrete sales volumes and prices, revenues from our operations in Israel, in Israeli New Shekel terms, decreased 2% in 2021 compared to 2020.

Rest of EMEAA

Our domestic cement sales volumes from our operations in the Rest of EMEAA segment decreased 11% in 2021 compared to 2020, and ready-mix concrete sales volumes increased 2% over the same period. Our cement export volumes from our operations in the Rest of EMEAA segment, which represented 9% of our Rest of EMEAA segment cement sales volumes for the year ended December 31, 2021, remained flat in 2021 compared to 2020. Of our total cement export volumes from our operations in the Rest of EMEAA segment during 2021, 98% were to countries in the EMEAA region and 2% were to Poland. Our revenues from our operations in the Rest of EMEAA segment represented 4% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in the Rest of EMEAA segment increased 9%, in Euro terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete remained flat, in Euro terms, over the same period.

The following chart indicates the breakdown of Rest of EMEAA revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

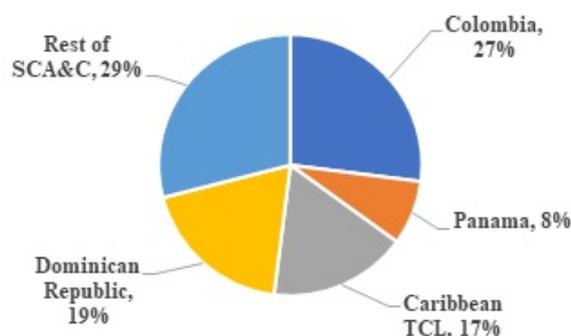


As a result of increases in ready-mix concrete sales volumes and sales prices, as well as increases in domestic cement sales prices, partially offset by a decrease in domestic cement sales volumes, revenues in the Rest of EMEAA segment, increased 3%, in Euro terms, in 2021 compared to 2020.

SCA&C

In 2021, our operations in the SCA&C region consisted of our operations in Colombia, Panama, the Dominican Republic, our Caribbean TCL operations, which represent our most significant operations in this region, and the Rest of SCA&C segment. Our revenues from our operations in the SCA&C region represented 11% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. As of December 31, 2021, our operations in the SCA&C region represented 9% of our total assets, in Dollar terms. Set forth below is a quantitative and qualitative analysis of the effects of the various factors affecting our revenues for our main operations in the SCA&C region.

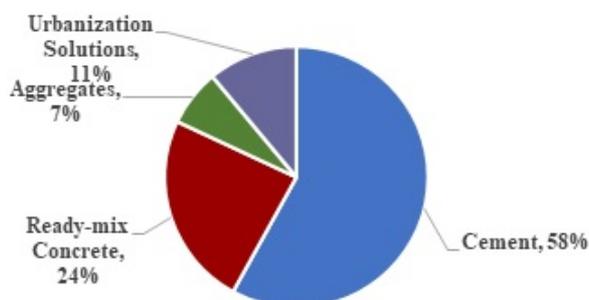
The following chart indicates the geographic breakdown of SCA&C region revenues by reporting segment, before others and eliminations resulting from consolidation, for the year ended December 31, 2021:



Colombia

Our domestic cement sales volumes from our operations in Colombia increased 8% in 2021 compared to 2020, and ready-mix concrete sales volumes increased 11% over the same period. The cement sales volume increase in Colombia was supported by housing, self-construction and infrastructure projects. Our revenues from our operations in Colombia represented 3% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in Colombia remained flat, in Colombian Peso terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete increased 1%, in Colombian Peso terms, over the same period.

The following chart indicates the breakdown of Colombia revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

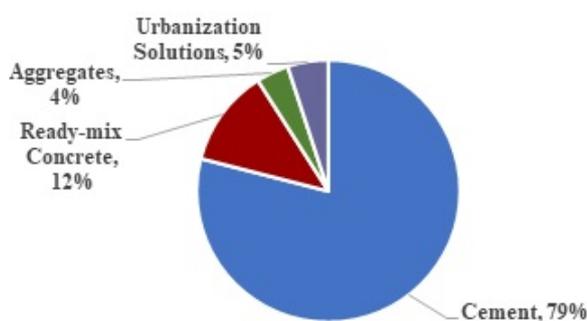


As a result of increases in domestic cement and ready-mix concrete sales volumes and an increase in ready-mix concrete sales prices, revenues of our operations in Colombia, in Colombian Peso terms, increased 11% in 2021 compared to 2020.

Panama

Our domestic cement sales volumes from our operations in Panama increased 41% in 2021 compared to 2020, and ready-mix concrete sales volumes increased 22% over the same period. The increases in domestic cement and ready-mix concrete sales volumes in Panama were mainly due to the reopening of the construction industry, after suspension in 2020 due to the COVID-19 pandemic. Our cement export volumes from our operations in Panama, which represented 57% of our Panama cement sales volumes for the year ended December 31, 2021, increased more than 100% in 2021 compared to 2020, as exports began at the end of 2020. Our revenues from our operations in Panama represented 1% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in Panama decreased 5% in Dollar terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete decreased 8%, in Dollar terms, over the same period.

The following chart indicates the breakdown of Panama revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

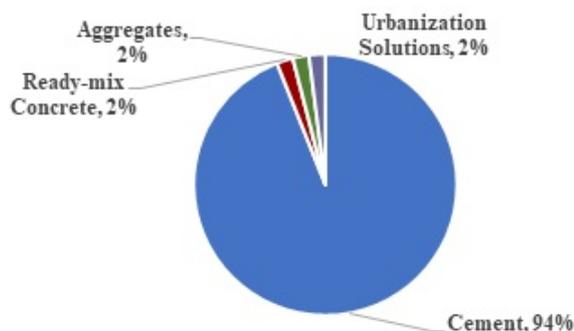


As a result of increases in domestic cement sales volumes and ready-mix concrete sales volumes, partially offset by a decrease sales prices, revenues of our operations in Panama, in Dollar terms, increased 51% in 2021 compared to 2020.

Caribbean TCL

Our domestic cement sales volumes from our operations in Caribbean TCL increased 16% in 2021 compared to 2020, and ready-mix concrete sales volumes decreased 3% over the same period. The increase in cement sales volume came from a higher demand. Our revenues from our operations in Caribbean TCL represented 2% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in Caribbean TCL segment represented 20% of our Caribbean TCL cement sales volumes for the year ended December 31, 2021, decreased 14% in 2021 compared to 2020. All of our total cement exports from our operations in Caribbean TCL during 2021 were to the Rest of SCA&C segment. Our average sales price of domestic cement of our operations in Caribbean TCL remained flat, in Trinidad and Tobago Dollar terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete increased 1%, in Trinidad and Tobago Dollar terms, over the same period.

The following chart indicates the breakdown of Caribbean TCL revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

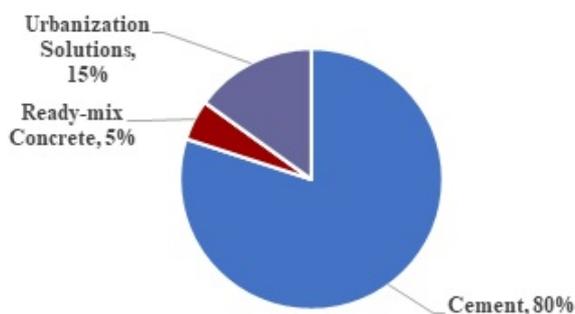


As a result of increases in domestic cement sales volumes, partially offset by decreases in ready-mix concrete sales volumes and sales prices, revenues of our operations in Caribbean TCL, in Trinidad and Tobago Dollar terms, increased 11% in 2021 compared to 2020.

Dominican Republic

Our domestic cement sales volumes from our operations in the Dominican Republic increased 22% in 2021 compared to 2020, while ready-mix concrete sales volumes decreased 2% over the same period. The increase in our domestic cement sales volumes in the Dominican Republic region was mainly driven by a recovery of a dynamic self-construction sector and the reactivation of delayed tourism projects. Our operations in the Dominican Republic represented 2% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our cement export volumes from our operations in the Dominican Republic, which represented 5% of our Dominican Republic cement sales volumes for the year ended December 31, 2021, decreased 34% in 2021 compared to 2020. All of our total cement export volumes from our operations in the Dominican Republic during 2022, were to our Rest of SCA&C segment. Our average sales price of domestic cement of our operations in the Dominican Republic increased 11%, in Dominican Peso terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete increased 14%, in Dominican Peso terms, over the same period.

The following chart indicates the breakdown of Dominican Republic revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:

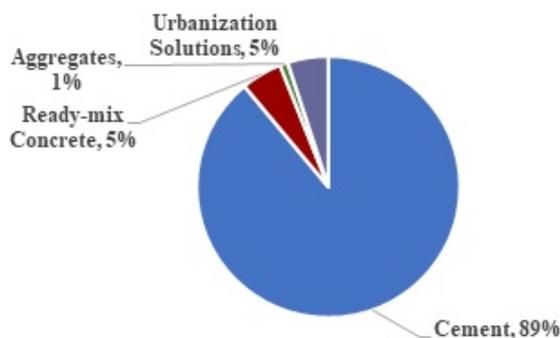


As a result of increases in domestic cement sales volumes and sales prices and ready-mix concrete sales prices, partially offset by a decrease in ready-mix concrete sales volume, revenues from our operations in the Dominican Republic, in Dominican Peso terms, increased 31% in 2021 compared to 2020.

Rest of SCA&C

Our domestic cement volumes from our operations in the Rest of SCA&C segment increased 9% in 2021 compared to 2020, and ready-mix concrete sales volumes increased 3% over the same period. Our cement export volumes from our operations in the Rest of SCA&C segment, which represented less than 1% of our Rest of SCA&C segment cement sales volumes for the year ended December 31, 2021, decreased 42% in 2021 compared to 2020. All of our total cement export volumes from our operations in the Rest of SCA&C segment during 2021, were within the same region. Our revenues from our operations in the Rest of SCA&C segment represented 3% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. Our average sales price of domestic cement from our operations in the Rest of SCA&C segment increased 4% in Dollar terms, in 2021 compared to 2020, and our average sales price of ready-mix concrete increased 17%, in Dollar terms, over the same period.

The following chart indicates the breakdown of Rest of SCA&C revenues by product, before others, intra sector eliminations within the segment and eliminations resulting from consolidation, as applicable for the year ended December 31, 2021:



As a result of increases in domestic cement and ready-mix concrete sales volumes and sales price, revenues of our operations in the Rest of SCA&C segment, in Dollar terms, increased 18% in 2021 compared to 2020.

Others (Revenues)

Revenues from our Others segment increased 104% before intra-sector eliminations within the segment and before eliminations resulting from consolidation, as applicable, in 2021 compared to 2020, in Dollar terms. The increase resulted mainly from higher revenues in our trading operations. Our revenues from our Others segment represented 9% of our total revenues for the year ended December 31, 2021, in Dollar terms, before eliminations resulting from consolidation. For the year ended December 31, 2021, our trading operations represented 64% of our revenues in our Others segment, in Dollar terms.

Cost of Sales

Our cost of sales, including depreciation, increased 13%, from \$8,586 million in 2020 to \$9,743 million in 2021. As a percentage of revenues, cost of sales remained flat at 68% in 2020 and in 2021. Our cost of sales includes freight expenses of raw materials used in our producing plants.

Gross Profit

For the reasons described above, our gross profit increased 14% from \$4,083 million in 2020 to \$4,636 million in 2021. As a percentage of revenues, gross profit remained flat at 32% in 2020 and in 2021. In addition, our gross profit may not be directly comparable to those of other entities that include all their freight expenses in cost of sales. As described below, we include freight expenses of finished products from our producing plants to our points of sale and from our points of sale to our customers' locations within operating expenses as part of distribution and logistics expenses.

Operating expenses

Our operating expenses, which are represented by administrative, selling and distribution and logistics expenses, increased 5%, from \$2,791 million in 2020 to \$2,917 million in 2021. As a percentage of revenues, operating expenses decreased from 22% in 2020 to 20% in 2021. The decrease as a percentage of revenues resulted primarily from lower administrative, sales and corporate expenses. Our operating expenses include expenses related to personnel, equipment and services involved in sales activities and storage of product at points of sale, which are included as part of the operating expenses, as well as freight expenses of finished products between plants and points of sale and freight expenses between points of sale and the customers' facilities, which are included as part of the line item "Distribution and logistics expenses." For the years ended December 31, 2020 and 2021, selling expenses included as part of the line item "Operating expenses" amounted to \$329 million and \$322 million, respectively. As discussed above, we include freight expenses of finished products from our producing plants to our points of sale and from our points of sale to our customers' locations within distribution and logistics expenses, which in the aggregate represented costs of \$1,413 million in 2020 and \$1,637 million in 2021. As a percentage of revenues, distribution and logistics expenses remained flat at 11% in 2020 and in 2021.

Operating Earnings Before Other Expenses, Net

For the reasons described above, our operating earnings before other expenses, net increased 33% from \$1,292 million in 2020 to \$1,719 million in 2021. As a percentage of revenues, operating earnings before other expenses, net increased 2%, from 10% in 2020 to 12% in 2021. Additionally, set forth below is a quantitative and qualitative analysis of the effects of the various factors affecting our operating earnings before other expenses, net on a reporting segment basis.

Mexico

Our operating earnings before other expenses, net, from our operations in Mexico increased 22% in 2021 compared to 2020, in Mexican Peso terms. Our operating earnings before other expenses, net from our operations in Mexico represented 58% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from the increase in our formal construction activity.

United States

Our operating earnings before other expenses, net, from our operations in the United States increased 2% in 2021 compared to 2020, in Dollar terms. Our operating earnings before other expenses, net from our operations in the United States represented 18% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from the increase in our revenues in the United States segment, partially compensated by increases in our cost of sales due to higher costs of purchased clinker and fuels.

EMEA

United Kingdom. Our operating earnings before other expenses, net, from our operations in the United Kingdom increased 230% in Pound terms, in 2021 compared to 2020. Our operating earnings before other expenses, net from our operations in the United Kingdom represented 4% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from the increase in our revenues in the United Kingdom.

France. Our operating earnings before other expenses, net, from our operations in France increased 88%, in Euro terms, in 2021 compared to 2020. Our operating earnings before other expenses, net from our operations in France represented 3% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from the increase in our revenues.

Germany. Our operating earnings before other expenses, net, from our operations in Germany increased 4%, in Euro terms, in 2021 compared to 2020. Our operating earnings before other expenses, net from our operations in Germany represented 2% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from our cost of sales containment effort.

Poland. Our operating earnings before other expenses, net, from our operations in Poland decreased 5% in 2021 compared to 2020, in Euro terms. Our operating earnings before other expenses, net from our operations in Poland represented 3% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The decrease resulting primarily from higher operational costs.

Spain. Our operating loss before other expenses, net, from our operations in Spain increased 157% in 2021 compared to 2020, in Euro terms. Our operating loss before other expenses, net from our operations in Spain represented a loss of \$39 million, which was a negative impact of 2% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase in loss resulted primarily from higher cost of sales, mainly higher electric power and fuel costs.

The Philippines. Our operating earnings before other expenses, net, from our operations in the Philippines increased 2% in 2021 compared to 2020, in Philippine Peso terms. Our operating earnings before other expenses, net from our operations in the Philippines represented 4% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from the increase in our revenues.

Israel. Our operating earnings before other expenses, net, from our operations in Israel decreased 35% in 2021 compared to 2020, in Israeli New Shekel terms. Our operating earnings before other expenses, net from our operations in Israel represented 4% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The decrease in Israel operating earnings resulted primarily from the decrease in our revenues.

Rest of EMEAA. Our operating earnings before other expenses, net, from our operations in the Rest of EMEAA segment increased 60% in 2021 compared to 2020, in Euro terms. Our operating earnings before other expenses, net from our operations in the Rest of EMEAA segment represented 2% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. This increase relates primarily to an increase in our revenues.

SCA&C

Colombia. Our operating earnings before other expenses, net, from our operations in Colombia increased 2% in 2021 compared to 2020, in Colombian Peso terms. Our operating earnings before other expenses, net from our operations in Colombia represented 4% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from the increase in our revenues.

Panama. Our operating earnings before other expenses, net, from our operations in Panama increased significantly in 2021 compared to 2020, from an operating loss before other expenses, net of \$4 million to an operating earnings before other expenses, net of \$15 million. Our operating earnings before other expenses, net from our operations in Panama represented 1% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from the increase in our revenues.

Caribbean TCL. Our operating earnings before other expenses, net, from our operations in Caribbean TCL increased 6% in 2021 compared to 2020, in Trinidad and Tobago Dollar terms. Our operating earnings before other expenses, net from our Caribbean TCL operations represented 3% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from an increase in our revenues.

Dominican Republic. Our operating earnings before other expenses, net, from our operations in the Dominican Republic increased 59% in 2021 compared to 2020, in Dominican Peso terms. Our operating earnings before other expenses, net from our operations in the Dominican Republic represented 7% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from an increase in our revenues.

Rest of SCA&C. Our operating earnings before other expenses, net, from our operations in the Rest of SCA&C segment increased 14% in 2021 compared to 2020, in Dollar terms. Our operating earnings before other expenses, net from our operations in the Rest of SCA&C segment represented 6% of our total operating earnings before other expenses, net for the year ended December 31, 2021, in Dollar terms. The increase resulted primarily from a benefit in Guatemala and Nicaragua derived mainly from higher sales, partially offset by an increase in cost of sales.

Others. Our operating loss before other expenses, net, from our operations in our Others segment decreased 22% in 2021 compared to 2020, in Dollar terms. The decrease in the operating loss before other expenses resulted primarily from an increase in our revenues.

Other Expenses, Net. Our other expenses, net, decreased significantly, in Dollar terms, from an expense of \$1,763 million in 2020 to an expense of \$82 million in 2021. The decrease in our other expenses, net, in 2021 resulted primarily from an income in 2021 for the sale of 12.3 million emission allowances for a total of \$600 million and a reduction of non-cash impairment losses from \$1,520 million in 2020, to \$513 million in 2021. In 2021, impairment losses includes aggregate impairment losses of goodwill of \$440 million related to the operating segments in Spain, the United Arab Emirates and the information technology business, impairment losses of internally developed software capitalized in prior years and other intangible assets of \$53 million, as well as impairment losses of fixed assets of \$43 million, while the aggregate non-cash impairment losses of 2020 included \$1,020 million related to goodwill and \$194 million in impairment loss of other intangible assets in our operating segment in the United States. In addition, during 2020, we recognized non-cash impairment losses of idle fixed assets for an aggregate amount of \$306 million, mainly related to assets in the United States, Spain and the United Kingdom. Moreover, we had a decrease in our restructuring costs in the year ended December 31, 2021 compared to the same period in 2020. See notes 15.1, 16.1 and 16.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

The most significant items included under this caption for the years ended December 31, 2020 and 2021, are as follows:

	For the Years Ended December 31,	
	<u>2020</u>	<u>2021</u>
	(in millions of Dollars)	
Impairment losses	\$ (1,520)	\$ (513)
Results from the sale of assets and others, net	(114)	(126)
Incremental costs and expenses related to the COVID-19 pandemic	(48)	(26)
Restructuring costs	(81)	(17)
Sale of CO ₂ Allowances	—	600
	<u>\$ (1,763)</u>	<u>\$ (82)</u>

Financial expense. Our financial expense decreased 15%, from \$773 million in 2020 to \$658 million in 2021, primarily attributable to a decrease in our financial debt during 2021 compared to 2020 and lower interest rates on our financial debt. See note 17.1 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Financial income and other items, net. Our financial income and other items, net, in Dollar terms, decreased 31%, from an expense of \$115 million in 2020 to an expense of \$79 million in 2021. The decrease was mainly due to a decrease in effects of amortized cost of assets and liabilities generated from a decrease in the discount rates utilized by us to determine its environmental remediation liabilities in the United Kingdom in 2020, which was partially offset by an increase in the loss due to the foreign exchange results, mainly due to the fluctuation of the Mexican Peso against the Dollar. See notes 8.2 and 17.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

The most significant items included under this caption for the years ended December 31, 2020 and 2021 are as follows:

	For the Year Ended December 31,	
	<u>2020</u>	<u>2021</u>
	(in millions of Dollars)	
Financial income and other items, net:		
Effects of amortized cost on assets and liabilities and others, net	\$ (89)	\$ (28)
Net interest cost of pension liabilities	(27)	(25)
Results from financial instruments, net	(17)	(6)
Foreign exchange results	(3)	(35)
Financial income	20	22
Other	1	(7)
	<u>\$ (115)</u>	<u>\$ (79)</u>

Income Taxes. Our income tax effect in the statements of operations, which is comprised of current income taxes plus deferred income taxes, increased from an expense of \$36 million in 2020 to \$137 million in 2021. Our current income tax expense increased from \$158 million in 2020 to \$172 million in 2021, mainly as a result of increases in taxes in Spain and Mexico, partially offset by tax refunds received in Poland. Our deferred income tax income decreased from a deferred income tax income of \$122 million in 2020 to a deferred income tax income of \$35 million in 2021, mainly associated with the recognition of deferred tax assets in 2020 related to the impairments of fixed assets in the United States, the United Kingdom and Spain, among other countries, that generated an additional deferred income tax income in 2020 compared to 2021. See notes 20.1, 20.2, 20.3 and 20.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

For each of the years ended December 31, 2020 and 2021, our statutory income tax rate in Mexico was 30%. Considering an increase in our earnings before income tax from a loss of \$1,310 million in 2020 to earnings before income tax of \$954 million in 2021, as well as differences between accounting and tax expenses, our average effective income tax rate increased from a negative effective income tax rate of 2.7% in 2020 to an effective income tax rate of 14.4% in 2021. Our average effective tax rate equals the net amount of income tax expense divided by earnings before income taxes, as these line items are reported in our consolidated statements of operations. See “Risk Factors—Risks Relating to Our Business—Certain tax matters may have a material adverse effect on our cash flow, financial condition and net income, as well as on our reputation” and note 20.3 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Net Income from continuing operations. For the reasons described above, our net income from continuing operations for 2021 increased from a net loss from continuing operations of \$1,346 million in 2020 to a net income from continuing operations of \$817 million in 2021. As a percentage of revenues, net loss from continuing operations represented 11% for the year ended as of December 31, 2020, and a net income from continuing operations represented 6% for the year ended as of December 31, 2021.

Discontinued operations. For the years ended December 31, 2020 and 2021, our discontinued operations included in our consolidated statements of operations amounted to a net loss from discontinued operations of \$100 million and a net loss from discontinued operations of \$39 million, respectively. As a percentage of revenues, loss of discontinued operations, net of tax, represented 0.8% for the year ended as of December 31, 2020 and the loss of discontinued operations, net of tax, represented 0.3% for the year ended as of December 31, 2021. See note 4.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Consolidated Net Income. For the reasons described above, our consolidated net income (before deducting the portion allocable to non-controlling interest) for 2021 increased significantly from a consolidated net loss of \$1,446 million in 2020 to a consolidated net income of \$778 million in 2021. As a percentage of revenues, consolidated net loss represented 11% for the year ended as of December 31, 2020 and consolidated net income represented 5% for the year ended as of December 31, 2021.

Non-controlling Interest Net Income. Changes in non-controlling interest net income in any period reflect changes in the percentage of the stock of our subsidiaries held by non-associated third parties as of the end of each month during the relevant period and the consolidated net income attributable to those subsidiaries.

Non-controlling interest net income increased 19%, from an income of \$21 million in 2020 to an income of \$25 million in 2021, primarily attributable to an increase in the net income of the consolidated entities in which others have a non-controlling interest. See note 21.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Controlling Interest Net Income. Controlling interest net income represents the difference between our consolidated net income and non-controlling interest net income, which is the portion of our consolidated net income attributable to those of our subsidiaries in which non-associated third parties hold interests. For the reasons described above, our controlling interest net income increased from a controlling interest net loss of \$1,467 million in 2020 to a controlling interest net income of \$753 million in 2021. As a percentage of revenues, controlling interest net loss, represented 12% for the year ended as of December 31, 2020 and controlling interest net income, represented 5% for the year ended as of December 31, 2021.

Liquidity and Capital Resources

Operating Activities

We have satisfied our operating liquidity needs primarily through the operation of our subsidiaries and expect to continue to do so for both the short and long-term. Although cash flow from our operations has historically met our overall liquidity needs for operations, servicing debt and funding capital expenditures and acquisitions, our subsidiaries are exposed to risks from changes in foreign currency exchange rates, price and currency controls, interest rates, inflation, governmental spending, social instability and other political, economic and/or social developments in the countries in which we operate, among other risks, any one of which may materially decrease our net income and cash from operations. Consequently, in order to meet our liquidity needs, we also rely on cost-cutting and operating improvements to optimize capacity utilization and maximize profitability, as well as borrowing under credit facilities, loans, proceeds of debt and equity offerings and proceeds from asset sales, including our account receivables securitizations. Our consolidated cash flows provided by operating activities from continuing operations were \$2,348 million in 2020, \$2,500 million in 2021 and \$2,150 million in 2022. See our statements of cash flows included in the February 23 6-K. CEMEX management is of the opinion that working capital is sufficient for our current requirements.

Sources and Uses of Cash

Our review of sources and uses of cash below refers to nominal amounts included in our consolidated statements of cash flows for years ended December 31, 2020, 2021 and 2022.

Our primary sources and uses of cash during the years ended December 31, 2020, 2021 and 2022 were as follows:

	<u>Year Ended December 31,</u>		
	<u>2020</u>	<u>2021</u>	<u>2022</u>
	(in millions of Dollars)		
Operating Activities			
Consolidated net income (loss)	(1,446)	778	885
Discontinued operations	(100)	(39)	324
Net income (loss) from continuing operations	(1,346)	817	561
Adjustments to the cash flow other than changes in working capital	3,495	1,826	1,979
Changes in working capital, excluding income taxes	199	(143)	(390)
Cash flows provided by operating activities from continuing operations	2,348	2,500	2,150
Interest expense and income taxes paid	(803)	(694)	(681)

	Year Ended December 31,		
	2020	2021	2022
	(in millions of Dollars)		
Net cash flows provided by operating activities from continuing operations	1,545	1,806	1,469
Net cash flows provided by operating activities from discontinued operations	49	37	6
Net cash flows provided by operating activities	<u>1,594</u>	<u>1,843</u>	<u>1,475</u>
Investing Activities			
Purchase of property, machinery and equipment, net	(538)	(776)	(909)
Proceeds from disposal of subsidiaries and assets held for sale, net	628	122	341
Proceed from the sale of emission allowances	—	600	—
Acquisition of intangible assets, net	(53)	(192)	(151)
Non-current assets and others, net	50	(10)	(12)
Net cash flows provided by (used in) investing activities from continuing operations	87	(256)	(731)
Net cash flows provided by (used in) investing activities from discontinued operations	—	(17)	(1)
Net cash flows provided by (used in) investing activities	<u>87</u>	<u>(273)</u>	<u>(732)</u>
Financing Activities			
Proceeds from new debt instruments	4,210	3,960	2,006
Debt repayments	(4,572)	(5,897)	(2,420)
Issuance of 5.125% Subordinated Notes	—	994	—
Other financial obligations, net	(820)	(288)	(197)
Share repurchase program	(83)	—	(111)
Share in trust for future deliveries under share-based compensation	—	—	(36)
Changes in non-controlling interests and repayment of perpetual debentures	(105)	(447)	(14)
Derivative financial instruments	12	(41)	34
Coupons on perpetual debentures and subordinated notes	(24)	(24)	(51)
Non-current liabilities, net	(138)	(109)	(172)
Net cash flows used in financing activities	<u>(1,520)</u>	<u>(1,852)</u>	<u>(961)</u>
Increase (decrease) in cash and cash equivalents from continuing operations	112	(302)	(223)
Increase in cash and cash equivalents from discontinued operations	49	20	5
Foreign currency translation effect on cash	1	(55)	100
Cash and cash equivalents at beginning of period	<u>788</u>	<u>950</u>	<u>613</u>
Cash and cash equivalents at end of period	<u>950</u>	<u>613</u>	<u>495</u>

Year ended December 31, 2022

During 2022, excluding the positive foreign currency effect of our balances of cash and cash equivalents generated during the period of \$100 million, there was a decrease in cash and cash equivalents from continuing operations of \$223 million. This decrease was the result of our net cash flows used in financing activities of \$961 million and our net cash flows used in investing activities from continuing operations of \$732 million, partially offset by our net cash flows provided by operating activities from continuing operations, which, after interest expense and income taxes paid in cash of \$681 million, amounted to \$1,469 million.

For the year ended December 31, 2022, our net cash flows provided by operating activities included cash flows applied in working capital, excluding income taxes, of \$390 million, which was primarily comprised of trade receivables, inventories and other accounts receivables and other assets, for an aggregate amount of \$695 million, partially offset by proceeds from trade payables and other accounts payables and accrued expenses for an aggregate amount of \$305 million.

During 2022, the decrease in cash and cash equivalents was the result of (i) our net cash flows used in financing activities of \$961 million, which include debt repayments, other financial obligations, net, changes in non-controlling interest, coupons on subordinated notes, share repurchase program, shares in trust for future deliveries under share-based compensation and non-current liabilities, net, for an aggregate amount of \$3,001 million, partially offset by proceeds from new debt instruments and derivative financial instruments for an aggregate amount of \$2,040 million; and (ii) our net cash flows used in investing activities from continuing activities of \$731 million, which was primarily comprised of purchase of property, machinery and equipment, net, acquisition of intangible assets, and non-current assets and others, net, for an aggregate amount of \$1,072 million partially offset by proceeds from disposal of subsidiaries and assets held for sale, net, for an amount of \$341 million, partially offset by our net cash flows provided by operating activities from continuing operations after interest and income taxes paid in cash of \$681 million, amounted to \$1,469 million.

Year ended December 31, 2021

During 2021, excluding the negative foreign currency effect of our balances of cash and cash equivalents generated during the period of \$55 million, there was a decrease in cash and cash equivalents from continuing operations of \$302 million. This decrease was the result of our net cash flows used in financing activities of \$1,852 million and our net cash flows used in investing activities from continuing operations of \$256 million, partially offset by our net cash flows provided by operating activities from continuing operations, which, after interest expense and income taxes paid in cash of \$694 million, amounted to \$1,806 million.

For the year ended December 31, 2021, our net cash flows provided by operating activities included cash flows applied in working capital, excluding income taxes, of \$143 million, which was primarily comprised of trade receivables, inventories and other accounts payable and accrued expenses, for an aggregate amount of \$527 million, partially offset by proceeds from other accounts receivable and other assets and trade payables for an aggregate amount of \$384 million.

During 2021, the decrease in cash and cash equivalents was the result of (i) our net cash flows used in financing activities of \$1,852 million, which include debt repayments, other financial obligations, net, changes in non-controlling interest and repayment of perpetual debentures, derivative financial instruments, coupons on Perpetual Debentures and subordinated notes, and non-current liabilities, net, for an aggregate amount of \$6,806 million, partially offset by proceeds from new debt instruments and issuance of 5.125% Subordinated Notes for an aggregate amount of \$4,954 million; and (ii) our net cash flows used in investing activities from continuing activities of \$256 million, which was primarily comprised of purchase of property, machinery and equipment, net, acquisition of intangible assets, and non-current assets and others, net, for an aggregate amount of \$978 million partially offset by proceeds from disposal of subsidiaries and assets held for sale, net, and sale of emission allowance for an aggregate amount of \$722 million, partially offset by our net cash flows provided by operating activities from continuing operations after interest and income taxes paid in cash of \$694 million, amounted to \$1,806 million.

Year ended December 31, 2020

During 2020, excluding the positive foreign currency effect of our balances of cash and cash equivalents generated during the period of \$1 million, there was an increase in cash and cash equivalents from continuing operations of \$112 million. This increase was the result of our net cash flows provided by operating activities from continuing operations, which, after interest and income taxes paid in cash of \$803 million, amounted to \$1,545 million and by our net cash flows provided by investing activities of \$87 million, partially offset by our net cash flows used in financing activities of \$1,520 million.

For the year ended December 31, 2020, our net cash flows provided by operating activities included cash flows generated from changes in working capital, excluding income taxes, of \$199 million, which was primarily comprised of trade receivables, inventories, trade payables and other accounts payable and accrued expenses, for an aggregate amount of \$221 million, partially offset by other accounts receivable and other assets for an amount of \$22 million.

During 2020, our net cash flows provided by (i) our operating activities from continuing operations after interest and income taxes paid in cash of \$803 million, amounted to \$1,545 million and (ii) our net cash flows provided by investing activities from continuing operations of \$87 million, which was primarily comprised of proceeds from disposal of subsidiaries and assets held for sale, net and by non-current assets and others, net for an aggregate amount of \$678 million, partially offset by purchase of property, machinery and equipment, net, and acquisition of intangible assets for an aggregate amount of \$591 million, were disbursed in connection with our net cash flows used in financing activities of \$1,520 million, which include debt repayments, other financial obligations, net, share repurchase program, changes in non-controlling interest, coupons on Perpetual Debentures and non-current liabilities, net, for an aggregate amount of \$5,742 million, partially offset by proceeds from new debt instruments and derivative instruments for an aggregate amount of \$4,222 million.

As of December 31, 2022, we had the following lines of credit, of which the only committed portion refers to the revolving credit facility under the 2021 Credit Agreement, at annual interest rates ranging between 3.38% and 5.65%, depending on the negotiated currency:

	<u>Lines of Credit</u>	<u>Available</u>
	<u>(in millions of Dollars)</u>	
Other lines of credit in foreign subsidiaries	364	204
Other lines of credit from banks	556	356
Revolving credit facility 2021 Credit Agreement	<u>1,750</u>	<u>1,450</u>
	<u>2,670</u>	<u>2,010</u>

As of December 31, 2022, we had full availability in our committed revolving credit tranche under the 2021 Credit Agreement. In connection with other lines of credit from banks, such uncommitted amounts are subject to the lenders' availability. We expect that this, in addition to our proven capacity to continually refinance and replace short-term obligations, will enable us to meet any liquidity risk in the short term.

Capital Expenditures

Our capital expenditures incurred for the years ended December 31, 2021 and 2022, and our expected capital expenditures during the year ended December 31, 2023, which include an allocation to 2023 of a portion of our total future committed amount, are as follows:

	<u>Actual for the Year Ended December 31, Actual</u>		<u>Estimated for the Year Ended December 31, 2023</u>
	<u>2021⁽¹⁾</u>	<u>2022</u>	
	<u>(in millions of Dollars)</u>		
Mexico	190	265	186
United States	373	551	492
EMEA			
United Kingdom	94	74	64
France	44	57	40
Germany	29	33	38
Poland	29	33	41
Spain	34	27	27
Philippines	89	72	127
Israel	45	37	29
Rest of EMEA	66	55	46

	Actual for the Year Ended December 31, Actual		Estimated for the Year Ended December 31, 2023 ⁽¹⁾
	2021 ⁽¹⁾	2022 ⁽¹⁾	
	(in millions of Dollars)		
SCA&C			
Colombia	27	45	77
Panama	9	19	8
Caribbean TCL	22	16	20
Dominican Republic	15	18	15
Rest of SCA&C	15	20	30
Others	13	40	10
Total consolidated	1,094	1,362	1,250
Of which:			
Expansion capital expenditures	380	474	400
Base capital expenditures	714	888	850

(1) For the year ended as of December 31, 2021, the capital expenditures do not include our operations in Costa Rica and El Salvador, which are considered assets held for sale. (see note 4.2 to our 2022 audited consolidated financial statements included in the February 23 6-K).

For the years ended December 31, 2021 and 2022, we recognized \$1,094 million and \$1,362 million in capital expenditures from our continuing operations, respectively. As of December 31, 2022, in connection with our significant projects, we had capital expenditure commitments of \$1,250 million an amount that is expected to be incurred during 2023, based on the evolution of the related projects.

Our Indebtedness

As of December 31, 2022, we had \$8,825 million (principal amount \$8,870 million, excluding deferred issuance costs) of total debt plus other financial obligations in our statement of financial position, which does not include \$1,000 million of 5.125% Subordinated Notes. Of our total debt plus other financial obligations, 11% was current (including current maturities of non-current debt) and 89% was non-current. As of December 31, 2022, 77% of our total debt plus other financial obligations was Dollar-denominated, 13% was Euro-denominated, 2% was Pound Sterling-denominated, 5% was Mexican Peso-denominated, 2% was Philippine Peso-denominated and 1% was denominated in other currencies. See notes 17.1 and 17.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

On July 19, 2017, CEMEX, S.A.B. de C.V. and certain of its subsidiaries entered into a facilities agreement, as amended on April 2, 2019, November 4, 2019, May 22, 2020 and October 13, 2020 (the "2017 Facilities Agreement") for an amount in different currencies equivalent to \$4.1 billion (in aggregate), the proceeds of which were used to refinance in full the indebtedness incurred under a credit agreement entered into with nine banks in 2014 and other debt repayment obligations, allowing us to increase the then average life of our syndicated bank debt to approximately 4.3 years with a final maturity in July 2022. The indebtedness incurred under the 2017 Facilities Agreement ranked equally in right of payment with certain of our other indebtedness, pursuant to the terms of an intercreditor agreement, dated September 17, 2012, among CEMEX, S.A.B. de C.V. and certain of its subsidiaries named therein, Citibank Europe PLC, UK Branch (formerly Citibank International plc), as facility agent, the financial institutions, noteholders and other entities named therein and Wilmington Trust (London) Limited, as security agent (as amended and restated from time to time, the "Intercreditor Agreement"). At the time, CEMEX, S.A.B. de C.V. and certain of its subsidiaries pledged collateral and all proceeds thereof to secure our payment obligations under the 2017 Facilities Agreement, our then-senior secured notes and under several other of our financing arrangements (the "Collateral"). The subsidiaries whose shares made up the Collateral collectively own, directly or indirectly, substantially all our operations worldwide. The Collateral has been released and the Intercreditor Agreement is no longer in effect, as described below.

On April 2, 2019, an amendment and restatement agreement to the 2017 Facilities Agreement was executed to, among other things, (i) extend the July 2020 and January 2021 repayment installments for a significant portion of the term loan tranches by three years; (ii) delay the scheduled tightening of the consolidated financial leverage ratio limit by one year; and (iii) make adjustments for the implementation of IFRS 16 and to compensate for its effects on certain financial ratios (together, the “April 2019 Facilities Agreement Amendments”).

On November 4, 2019, we amended and restated by an amendment and restatement agreement the 2017 Facilities Agreement. These amendments (together, the “November 2019 Facilities Agreement Amendments”) included: amendments providing for an additional basket of up to \$500 million that can only be used for buy-backs of shares or securities that represent shares of CEMEX, S.A.B. de C.V.; amendments providing for a new allowance for disposals of non-controlling interest in subsidiaries that are not obligors (as defined in the 2017 Facilities Agreement) under the 2017 Facilities Agreement of up to \$100 million per calendar year; amendments relating to the implementation of corporate reorganizations in Mexico, Europe and in the Trinidad Cement Group (as defined in the 2017 Facilities Agreement); and amendments to the consolidated leverage ratio and the consolidated coverage ratio (as defined and calculated in the 2017 Facilities Agreement) to increase CEMEX’s flexibility.

On May 22, 2020, we amended and restated by an amendment and restatement agreement the 2017 Facilities Agreement. These amendments (together, the “May 2020 Facilities Agreement Amendments”) included: (a) modifications to the limits of the consolidated coverage ratio and the consolidated leverage ratio; (b) modifications to the applicable margin over LIBOR, or EURIBOR in relation to any Euro loan, depending on the consolidated leverage ratio, to accommodate for the increased leverage limits; and (c) certain temporary or circumstance-based limitations on our ability to execute certain capital expenditures, acquisitions, share buybacks and the granting of loans to third parties.

On October 13, 2020, we further amended and restated by an amendment and restatement agreement the 2017 Facilities Agreement. As a result of these amendments (together, the “October 2020 Facilities Agreement Amendments”), we extended \$1.1 billion of term loan maturities by three years, from 2022 to 2025, and \$1.1 billion of commitments under the revolving credit facility by one year from 2022 to 2023. In addition, on October 15, 2020, we prepaid \$530 million corresponding to the July 2021 amortization under the new term loan facilities created pursuant to the October 2020 Facilities Agreement Amendments.

Under the October 2020 Facilities Agreement Amendments, we also redenominated \$313 million of previous Dollar exposure under the term loans that are part of the 2017 Facilities Agreement to Mexican Pesos, as well as \$82 million to Euros. Aside from the new Mexican Pesos tranche that was created under the 2017 Facilities Agreement, which included a lower interest rate margin grid, pricing for all other tranches under the 2017 Facilities Agreement remained unchanged.

Following the October 2020 Facilities Agreement Amendments, certain tranches under the 2017 Facilities Agreement amounting to \$3.2 billion incorporated five sustainability-linked metrics, including reduction of net CO₂ emissions and use of power from green energy, among other indicators. Annual performance with respect to these five metrics could result in a total adjustment of the interest rate margin under these tranches of up to plus or minus five basis points.

Along with other technical amendments, under the October 2020 Facilities Agreement Amendments, we also tightened our consolidated leverage ratio covenant under the 2017 Facilities Agreement from 7.00:1 to a limit of 6.25:1 for the periods ending on September 30, 2020, December 31, 2020 and March 31, 2021. In addition, on December 17, 2020, commitments were increased by \$93 million and \$43 million under the new term loan facilities and the new revolving credit facility created pursuant to the October 2020 Facilities Agreement Amendments, respectively. Subsequently, we cancelled commitments in those same amounts under the term loan facilities and the revolving credit facility already existing before the October 2020 Facilities Agreement Amendments. Following the aforementioned increase and cancellation, the amount of commitments under the 2017 Facilities Agreement remained effectively unchanged, but maturity of the aforementioned amounts were effectively extended from 2022 to 2025 (for the term loan facility commitments) and to 2023 (for the revolving credit facility commitments). Additionally, effective December 24, 2020, an additional \$14 million of commitments under the revolving facility existing prior to the October 2020 Facilities Agreement Amendments were cancelled.

On October 5, 2021, we further amended by an amendment agreement the 2017 Facilities Agreement. As a result of these amendments (the “October 2021 Facilities Agreement Amendments” and, together with the October 2020 Facilities Agreement Amendments, the April 2019 Facilities Agreement Amendments, the November 2019 Facilities Agreement Amendments and the May 2020 Facilities Agreement Amendments, the “Facilities Agreement Amendments”), the 2017 Facilities Agreement was modified so that when at any time CEMEX reported a Consolidated Leverage Ratio (as calculated pursuant to the Facilities Agreement) of 3.75x or less for two consecutive quarterly periods, the automatic release of the liens on the Collateral would be triggered. The terms of the indentures governing CEMEX’s then-senior secured notes, which were also secured by liens on the Collateral, also contain an automatic release of such liens when the Collateral is released under the 2017 Facilities Agreement.

As CEMEX reported a Consolidated Leverage Ratio of 3.75x or less for the quarterly periods ending on March 31, 2021 and June 30, 2021, CEMEX complied with all requirements for the automatic release of the liens on the Collateral securing its indebtedness under the 2017 Facilities Agreement and, in turn, its then-senior secured notes that benefited from the same Collateral. The Collateral was released on October 6, 2021 and, at the time, consisted of the shares of CEMEX Operaciones México, S.A. de C.V. (“COM”), CEMEX España and Cemex Innovation Holding Ltd. (“CIH”). The then-senior secured notes that previously benefitted from the Collateral were the 2.750% Euro-denominated Notes due 2024, the March 2026 Euro Notes, the November 2029 Dollar Notes, the June 2027 Dollar Notes, the September 2030 Dollar Notes and the July 2031 Dollar Notes (each as defined herein).

Additionally, the aforementioned Collateral release caused the automatic termination of the Intercreditor Agreement governing the rights of certain of CEMEX and its subsidiaries’ creditors in accordance with its terms.

2021 Credit Agreement

On October 29, 2021, CEMEX, S.A.B. de C.V. entered into the 2021 Credit Agreement for up to \$3.25 billion to refinance indebtedness (including the 2017 Facilities Agreement) and general corporate purposes. On November 8, 2021, we fully repaid all outstanding indebtedness under the 2017 Facilities Agreement, which amounted to \$1.9 billion in different currencies. Following this repayment, the 2017 Facilities Agreement is no longer in effect. The funds used to repay the 2017 Facilities Agreement were sourced from the 2021 Credit Agreement, which was closed with 21 financial institutions participating as lenders. The main terms and conditions of the 2021 Credit Agreement are summarized as follows:

- Final maturity in November 2026;
- \$1.5 billion in Term Loans (as defined in the 2021 Credit Agreement), amortizing in five equal semi-annual payments starting in November 2024;
- \$1.75 billion of commitments under a Revolving Facility (as defined in the 2021 Credit Agreement) maturing in November 2026;
- All loans under the 2021 Credit Agreement bear interest at the same rate, including an applicable margin over the benchmark interest rate of between 100 and 175 basis points, depending on CEMEX’s Consolidated Leverage Ratio (as defined in the 2021 Credit Agreement), with such margin being subject to positive or negative adjustments in an aggregate amount not to exceed five basis points, based on certain sustainability-linked performance metrics from the prior annual period;
- Financial covenants consistent with an investment grade capital structure, with a maximum leverage ratio of 3.75x throughout the life of the loan, and a minimum interest coverage ratio of 2.75x; and
- Guaranteed by CEMEX Corp., CEMEX Concretos, S.A. de C.V., COM and CIH, all of which are subsidiaries of CEMEX (collectively, the “Refinancing Guarantors”).

The 2021 Credit Agreement is denominated exclusively in Dollars and includes an interest rate margin grid that is about 25 basis points lower on average than that of the 2017 Facilities Agreement. Furthermore, the 2021 Credit Agreement is the first debt to be issued under the Sustainability-Linked Financing Framework, which is aligned to the company's Future in Action strategy and its ultimate vision of a carbon-neutral economy. The annual performance in respect of the three metrics referenced in the 2021 Credit Agreement, which are aligned with those provided for in the Sustainability-Linked Financing Framework, may result in an adjustment of the interest rate margin of up to plus or minus five basis points, in line with other sustainability-linked loans from investment grade rated borrowers.

As of December 31, 2022, we reported an aggregate amount of outstanding debt of \$1,800 million under the 2021 Credit Agreement. As of December 31, 2022, we had \$1,450 million of availability under the committed revolving credit tranche under the 2021 Credit Agreement.

Mexican Peso Banorte Agreement

On December 20, 2021, CEMEX, S.A.B. de C.V. entered into the Mexican Peso Banorte Agreement under terms and conditions substantially similar to those of the 2021 Credit Agreement. As of December 31, 2022, we had drawn the entirety of the only term loan thereunder for the then Mexican Peso equivalent of \$255 million. Furthermore, the borrowing under the Mexican Peso Banorte Agreement is also issued under the Sustainability-Linked Financing Framework.

2022 EUR Credit Agreement

On October 7, 2022, CEMEX, S.A.B. de C.V. entered into the 2022 EUR Credit Agreement for €500 million under terms and conditions substantially similar to those of the 2021 Credit Agreement, for general corporate purposes (including to refinance indebtedness). The 2022 EUR Credit Agreement consists of a 3-year non-amortizing term loan facility. The 2022 EUR Credit Agreement has financial covenants consistent with an investment grade capital structure, with a maximum leverage ratio of 3.75x throughout the life of the facility, and a minimum interest coverage ratio of 2.75x. The 2022 EUR Credit Agreement is denominated exclusively in Euros, and the loans bear interest at a rate per annum equal to the EURIBOR rate plus a margin ranging from 115 basis points to 190 basis points, depending on our leverage ratio (subject to the sustainability-linked adjustments described below). Furthermore, the borrowing under the 2022 EUR Credit Agreement is also issued under the Sustainability-Linked Financing Framework. The annual performance in respect of the three metrics referenced in the 2022 EUR Credit Agreement, which are aligned with those provided for in the Sustainability-Linked Financing Framework, may result in an adjustment of the interest rate margin of up to plus or minus five basis points, in line with other sustainability-linked loans from investment grade rated borrowers. As of December 31, 2022, we had drawn the entirety of the only term loan under the 2022 EUR Credit Agreement for the then Euro equivalent of \$498 million.

As of December 31, 2022, we reported an aggregate amount of outstanding debt of \$535 million under the 2022 EUR Credit Agreement.

If we are unable to comply with our upcoming principal maturities under our indebtedness, or refinance or extend maturities of our indebtedness, our debt could be accelerated. Acceleration of our debt would have a material adverse effect on our financial condition. See "Risk Factors—Risks Relating to Our Indebtedness and Certain Other Obligations—We have a substantial amount of debt and other financial obligations. If we are unable to secure refinancing on favorable terms or at all, we may not be able to comply with our payment obligations upon their maturity. Our ability to comply with our principal maturities and financial covenants may depend on us implementing certain strategic initiatives, including, but not limited to, making asset sales, and there is no assurance that we will be able to implement any such initiatives or execute such sales, if needed, on terms favorable to us or at all." Some of our subsidiaries have issued or provided guarantees of certain of our indebtedness, as indicated in the table below.

	<u>The Notes</u> \$3,988 million (principal amount \$4,006 million)	<u>2021 Credit Agreement</u> \$1,780 million (principal amount \$1,800 million)	<u>2022 EUR Credit Agreement</u> \$532 million (principal amount \$535 million)	<u>5.125% Subordinated Notes</u> \$1,000 million (principal amount \$1,000 million)	<u>Mexican Peso Banorte Agreement</u> \$267 million (principal amount \$268 million)
Amount Outstanding as of December 31, 2022 ⁽¹⁾					
CEMEX, S.A.B. de C.V.	✓	✓	✓	✓	✓
CEMEX Operaciones México, S.A. de C.V.	✓	✓	✓		✓
CEMEX Concretos, S.A. de C.V.	✓	✓	✓		✓
CEMEX Corp.	✓	✓	✓		✓
CEMEX Innovation Holding Ltd	✓	✓	✓		✓

(1) Includes Notes held by CEMEX.

In addition, as of December 31, 2022, (i) CEMEX Materials LLC was a borrower of \$152 million (principal amount \$152 million) under an indenture which is guaranteed by CEMEX Corp. and (ii) several of our other operating subsidiaries were borrowers under debt facilities or debt arrangements aggregating \$254 million.

Most of our current outstanding indebtedness was incurred to finance our acquisitions and to finance our capital expenditure programs. Historically, we have addressed our liquidity needs (including funds required to make scheduled principal and interest payments, refinance debt, and fund working capital and planned capital expenditures) with operating cash flow, securitizations, borrowings under credit facilities, proceeds of debt and equity offerings and proceeds from asset sales.

If (i) the global economic environment deteriorates, (ii) the effects of the COVID-19 pandemic on financial institutions extending maturities to companies that have our credit rating or that are highly leveraged like us becomes more restrictive and our operating results worsen significantly, (iii) we are unable to complete debt or equity offerings, (iv) we are unable to consummate asset sales, or (v) the proceeds of any divestitures and/or our cash flow or capital resources prove inadequate, among other events, we could face liquidity problems and may not be able to comply with our upcoming principal payments under our indebtedness or refinance our indebtedness. If we are unable to comply with our upcoming principal maturities under our indebtedness, or refinance or extend maturities of our indebtedness, our debt could be accelerated. Acceleration of our debt would have a material adverse effect on our business and financial condition.

Historically, we and our subsidiaries have sought and obtained waivers and amendments to several of our debt instruments relating to a number of financial ratios. Our ability to comply with these ratios may be affected by current global economic conditions and volatility in foreign exchange rates and the financial and capital markets, including the effects of the COVID-19 pandemic and the conflict between Russia and Ukraine on the financial sector and the ability of our lenders to grant waivers or amendments to companies that have our credit rating or that are highly leveraged like us. We may need to seek waivers or amendments in the future. However, we cannot assure you that any future waivers or amendments, if requested, will be obtained. If we or our subsidiaries are unable to comply with the provisions of our debt instruments and are unable to obtain a waiver or amendment, the indebtedness outstanding under such debt instruments could be accelerated. Acceleration of these debt instruments would have a material adverse effect on our financial condition.

Relevant Transactions Related to Our Indebtedness in 2022

The following is a description of our most important transactions related to our indebtedness in 2022:

- On April 13, 2022, we consummated a cash tender offer and purchased \$163,762,000 aggregate principal amount of the outstanding September 2030 Dollar Notes, \$108,648,000 aggregate principal amount of the outstanding November 2029 Dollar Notes and \$156,178,000 aggregate principal amount of the outstanding July 2031 Dollar Notes validly tendered by holders of the tendered notes and made a total payment of \$419,293,717.35 (which included an early tender premium and accrued and unpaid interest) for such tendered notes, pursuant to the terms of an offer to purchase governing the tender offer.

- On April 27, 2022, we consummated a cash tender offer and purchased \$4,160,000 aggregate principal amount of the outstanding September 2030 Dollar Notes, \$3,000,000 aggregate principal amount of the outstanding November 2029 Dollar Notes and \$3,075,000 aggregate principal amount of the outstanding July 2031 Dollar Notes validly tendered by holders of the tendered notes after the early tender date and at or prior to the expiration date and made a total payment of \$9,789,319.41 (which included accrued and unpaid interest) for such tendered notes, pursuant to the terms of the offer to purchase governing the tender offer.
- From May 2022 to August 2022, we repurchased \$191,801,000 aggregate principal amount of the 2031 Dollar Notes, \$32,750,000 aggregate principal amount of the 2030 Dollar Notes and \$40,344,000 aggregate principal amount of the 2029 Dollar Notes (the “2022 Note Repurchase”).
- On September 30, 2022, we consummated a cash tender offer and purchased \$291,177,000 aggregate principal amount of the outstanding July 2031 Dollar Notes, \$81,944,000 aggregate principal amount of the outstanding September 2030 Dollar Notes and \$94,955,000 of the outstanding November 2029 Dollar Notes validly tendered by holders of the tendered notes and made a total payment of \$404,512,954.08 (which included an early tender premium and accrued and unpaid interest) for such tendered notes, pursuant to an offer to purchase governing the tender offer.
- On October 7, 2022, we entered into the 2022 EUR Credit Agreement. During 2022, we borrowed the full amount of the 2022 EUR Credit Agreement. We used a substantial portion of the proceeds from these transactions to repay and refinance indebtedness, to improve our liquidity position and for general corporate purposes. For a description of the 2022 EUR Credit Agreement, see “—Liquidity and Capital Resources—Our Indebtedness.”

Our Other Financial Obligations

Other financial obligations in the consolidated statement of financial position as of December 31, 2021 and 2022 are detailed as follows:

	2021			2022		
	Short-term	Long-term	Total	Short-term	Long-term	Total
	(in millions of Dollars)					
Leases	\$ 265	\$ 911	\$ 1,176	\$ 258	\$ 918	\$ 1,176
Liabilities secured with accounts receivable	602	\$—	602	678	—	678
	<u>\$ 867</u>	<u>\$ 911</u>	<u>\$ 1,778</u>	<u>\$ 936</u>	<u>\$ 918</u>	<u>\$ 1,854</u>

Leases

We have several operating and administrative assets under lease contracts. We apply the recognition exemption for short-term leases and leases of low-value assets. See notes 15.2 and 17.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Changes in the balance of lease financial liabilities during 2020, 2021 and 2022 were as follows:

(in millions of Dollars)	2020	2021	2022
Lease financial liability at beginning of year	\$1,306	\$1,260	\$1,176
Additions from new leases	213	227	296
Reductions from payments	(276)	(313)	(276)
Cancellations and liability remeasurements	(9)	27	7
Foreign currency translation and accretion effects	26	(25)	(27)
Lease financial liability at end of year	<u>\$1,260</u>	<u>\$1,176</u>	<u>\$1,176</u>

As of December 31, 2022, the maturities of non-current lease financial liabilities are as follows:

(in millions of Dollars)	<u>Total</u>
2024	\$194
2025	151
2026	109
2027	81
2028 and thereafter	383
	<u>\$918</u>

Total cash outflows for leases including the interest expense portion as disclosed in note 8.1 to our 2022 audited consolidated financial statements included in the February 23 6-K in 2020, 2021 and 2022 were \$350 million, \$381 million and \$342 million, respectively.

Our Receivables Financing Arrangements

Our subsidiaries in Mexico, the United States, France and the United Kingdom are parties to sales of trade accounts receivable programs with financial institutions, referred to as securitization programs. As of December 31, 2021 and 2022, trade accounts receivable included receivables of \$727 million and \$828 million, respectively. Under these programs, our subsidiaries effectively surrender control associated with the trade accounts receivable sold and there is no guarantee or obligation to reacquire the assets. Nonetheless, in such programs, our subsidiaries retain certain residual interest in the programs and/or maintain continuing involvement with the accounts receivable. Therefore, the trade accounts receivable sold were not removed from the statement of financial position, and the funded amounts were recognized within the line item “Other financial obligations” and the difference in each year against the trade receivables sold was maintained as reserves. Trade accounts receivable qualifying for sale exclude amounts over a certain number of days past due or concentrations over certain limits to any customer, according to the terms of the programs. The portion of the accounts receivable sold maintained as reserves amounted to \$125 million and \$150 million as of December 31, 2021 and 2022, respectively. Therefore, the funded amount to us was \$602 million and \$678 million as of December 31, 2021 and 2022, respectively. The discount granted to the acquirers of the trade accounts receivable is recorded as financial expense and amounted to \$13 million in 2020, \$11 million in 2021 and \$24 million in 2022. Our securitization programs are usually negotiated for periods of one to two years and are usually renewed at their maturity. See notes 10 and 17.2 to our 2022 audited consolidated financial statements included in the February 23 6-K. See “Recent Developments—Recent Developments Relating to Our Indebtedness.”

Perpetual Debentures

We defined the Perpetual Debentures, collectively, as the (i) Dollar-denominated 6.196% Fixed-to-Floating Rate Callable Perpetual Debentures issued by C5 Capital (SPV) Limited, (ii) Dollar-denominated 6.640% Fixed-to-Floating Rate Callable Perpetual Debentures issued by C8 Capital (SPV) Limited, (iii) Dollar-denominated 6.722% Fixed-to-Floating Rate Callable Perpetual Debentures issued by C10 Capital (SPV) Limited and (iv) Euro-denominated 6.277% Fixed-to-Floating Rate Callable Perpetual Debentures issued by C10-EUR Capital (SPV) Limited. Unless the context otherwise requires, when we refer to the Perpetual Debentures (as defined above), we also include our dual-currency notes that underlie the Perpetual Debentures.

As of December 31, 2020, non-controlling interest stockholders’ equity included \$449 million, representing the notional amount of Perpetual Debentures, which excluded any Perpetual Debentures held by subsidiaries. The Perpetual Debentures had no fixed maturity date and there were no contractual obligations for us to exchange any series of its outstanding Perpetual Debentures for financial assets or financial liabilities. As a result, these debentures, issued by special purpose vehicles (“SPVs”), qualified as equity instruments under applicable IFRS and were classified within non-controlling interest as they were issued by consolidated entities. Subject to certain conditions, we had the unilateral right to defer indefinitely the payment of interest due on the debentures. The different SPVs were established solely for purposes of issuing the Perpetual Debentures and were included in CEMEX’s consolidated financial statements.

In June 2021, considering the issuance of the 5.125% Subordinated Notes we redeemed all series of our outstanding Perpetual Debentures and, in each case, an equal aggregate amount of underlying dual-currency notes. See note 21.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Issuance costs, as well as the interest expense, which is accrued based on the principal amount of the Perpetual Debentures, were included within “Other equity reserves” and represented expenses of \$24 million and \$11 million in 2020 and 2021, respectively.

Subordinated Notes

On June 8, 2021, we issued \$1.0 billion aggregate principal amount of the 5.125% Subordinated Notes with no fixed maturity and subordinated to all senior obligations, and senior only to equity, in transactions exempt from registration pursuant to Rule 144A and Regulation S under the Securities Act. After issuance costs, we received \$994 million. Considering that the 5.125% Subordinated Notes have no fixed maturity date, there is no contractual obligation for us to deliver cash or any other financial assets, the payment of principal and interest may be deferred indefinitely at the sole discretion of us and specific redemption events, are fully under our control, under applicable IFRS, the 5.125% Subordinated Notes qualify as equity instruments and are classified within controlling interest stockholders’ equity. We have a repurchase option on the fifth anniversary of the 5.125% Subordinated Notes. In the event of liquidation of us due to commercial bankruptcy, the 5.125% Subordinated Notes would come to the liquidation process according to their subordination after all liabilities. Coupon payments on the 5.125% Subordinated Notes for the years ended December 31, 2021 and 2022, were included within “Other equity reserves” and amounted to \$30 million and \$54 million, respectively.

Stock Repurchase Program

Under Mexican law, CEMEX, S.A.B. de C.V.’s shareholders are the only ones authorized to approve the maximum amount of resources that can be allocated to the stock repurchase program at any annual general ordinary shareholders’ meeting. Unless otherwise instructed by CEMEX, S.A.B. de C.V.’s shareholders, we are not required to purchase any minimum number of shares pursuant to such program.

In connection with CEMEX, S.A.B. de C.V.’s annual general ordinary shareholders’ meetings held on March 26, 2020, March 25, 2021 and March 24, 2022, proposals were approved to set the amount of \$500 million or its equivalent in Mexican Pesos, each year and until the next ordinary shareholders’ meeting, as the maximum amount of resources that CEMEX, S.A.B. de C.V. can use to repurchase its own shares or securities that represent such shares. The board of directors of CEMEX, S.A.B. de C.V. approved the policy and procedures for the operation of the stock repurchase program, and is authorized to determine the basis on which the repurchase and placement of such shares is made, appoint the persons who will be authorized to make the decision of repurchasing or replacing such shares and appoint the persons responsible to make the transaction and furnish the corresponding notices to authorities. The board of directors of CEMEX, S.A.B. de C.V. and/or attorneys-in-fact or delegates designated in turn, or the persons responsible for such transactions, will determine, in each case, if the repurchase is made with a charge to stockholders’ equity as long as the shares belong to CEMEX, S.A.B. de C.V. or with a charge to share capital if it is resolved to convert the shares into non-subscribed shares to be held in treasury. See “Recent Developments—Recent Developments Relating to CEMEX, S.A.B. de C.V.’s Shareholders’ Meetings.” We remain subject to certain restrictions regarding the repurchase of shares of our capital stock under the Credit Agreements and the indentures governing the outstanding Notes.

During 2020, under the repurchase program authorized at CEMEX, S.A.B. de C.V.’s ordinary general shareholders meeting held on March 28, 2019, CEMEX, S.A.B. de C.V. repurchased 378.2 million CPOs, at a weighted-average price in Mexican Pesos equivalent to \$0.2200 per CPO. The total amount of these CPO repurchases, was \$83.2 million. The shares repurchased in 2020 under the 2019 repurchase program were cancelled at the CEMEX, S.A.B. de C.V. annual general ordinary shareholders’ meeting held on March 26, 2020.

During 2021, CEMEX did not use the repurchase program authorized at CEMEX, S.A.B. de C.V.'s ordinary general shareholders meeting held on March 25, 2021.

During 2022, under the repurchase programs authorized at CEMEX, S.A.B. de C.V.'s ordinary general shareholders meeting held on March 25, 2021, and March 24, 2022, Cemex, S.A.B. de C.V. repurchased 220.6 million CPOs, at a weighted average price in Mexican pesos equivalent to \$0.5026 per CPO, which was equivalent to an amount of \$110.9 million.

Research and Development, Patents and Licenses, etc.

Headed by CEMEX Global R&D, Research and Development is increasingly assuming a key role as it is recognized as an important element in creating value for our products, which is important to CEMEX's comprehensive pricing strategy for CEMEX's products. Through the development of innovative technologies, services, and commercial models, CEMEX is leveraging its know-how-based assets to create an important differentiation in its offerings to customers in a broad range of markets with unique challenges. We focus on creating tangible value for our customers by creating products designed to make their business more profitable, but more importantly, as leaders in the industry, CEMEX intends to elevate and accelerate the industry's evolution in order to achieve greater sustainability, increase engagement in social responsibility and provoke an important leap in its technological advancement.

CEMEX's R&D initiatives are globally led, coordinated and managed by CEMEX Global R&D, mainly based in Switzerland, which encompasses the areas of Global R&D, Intellectual Property Management, Cement Production Technology, Sustainability, Business Process & IT, Innovation, and Commercial & Logistics. We also have other laboratories and research locations in other parts of the world.

CEMEX's interaction and engagement with customers is growing and evolving through the exploration of novel interaction methodologies. CEMEX's R&D continues to develop and evolve in the area of customer centricity, but with complementary emphases on digitalization, development of digital-based business models, socio-urban dynamics, processes and technologies to mitigate CO₂, and evaluating, adopting and proposing methodologies to engage specific types of customers who are the key decision makers in the very early stages of a construction project. Such methodologies are defining innovative approaches to involve and expose existing, potential, and future customers (e.g., Engineering & Architectural students) to our value-added products (cement, aggregates, ready-mix concrete, and admixtures) and constructions solutions. In other words, we aspire to create a unique customer experience in which the customer can see, touch, interact and even stimulate the modification of our technologies.

The areas of Global R&D, Cement Production Technology and CEMEX Ventures Capital are responsible for, among others, developing new products for our cement, ready-mix concrete, aggregate and admixture businesses as well as introduce novel and/or improved processing and manufacturing technology for all of CEMEX's core businesses. These areas also address energy efficiency of buildings, comfort, novel and more efficient construction systems. Additionally, the Global R&D and Sustainability areas collaborate to develop and propose construction solutions through consulting and the integration of the aforementioned technologies.

The Cement Production Technology and Sustainability areas are dedicated to, among others, operational efficiencies leading to cost reductions and enhancing our CO₂ footprint and overall environmental impact through the usage of alternative or biomass fuels, the use of supplementary materials in substitution of clinker, as well as by managing our CO₂ footprint, mitigating it and processing it in the context of a circular economy. For example, we have developed processes and products that allow us to reduce heat consumption in our kilns, which in turn reduces energy costs. Special emphasis is placed on defining parameters by which we communicate our efforts to preserve resources for the future, reduce our CO₂ footprint and become more resilient with respect to our energy-related needs and potential supply constraints.

With respect to energy, the R&D team is focusing on energy storage, which represents the largest and most near-term opportunity to accelerate renewable energy deployments and bring us closer to replacing fossil fuels as the primary resource to meet the world's continual growth in energy demand. Global products/brands have been conceptualized and engineered to positively impact the jobsite safety, promote efficient construction practices, sensibly preserve natural resources vital to life, lower carbon footprint and improve the quality of life in rapidly transforming cities.

Underlying CEMEX's R&D philosophy is a growing culture of global collaboration and coordination, where the innovation team identifies and promotes novel collaboration practices and mobilizes its adoption within CEMEX. Getting closer and understanding our customers is a fundamental transformation within CEMEX, and consequently the Commercial & Logistics area is carrying out research initiatives to better attend the needs of customers as well as identify key changes in our supply chain management that should enable us to bring products, solutions and services to our customers in the most cost-effective and efficient manner, using what we believe to be the best available technologies to design a new standard in digital commercial models. As of December 31, 2022, CEMEX Global R&D actively participates in several research projects (ABSALT, LEILAC 2, DRIVE, FASTCARB, ECOCO₂, REDOL, DESTINY, CO₂OLHEAT and BIOFLEXGEN), funded by the EU under the H2020 program or other programs, to develop new technologies aimed at reducing CEMEX's carbon footprint in Europe and other countries in which CEMEX operates.

There are nine laboratories supporting CEMEX's R&D efforts under a collaborative network. The laboratories are strategically located in close proximity to our plants and assist the operating subsidiaries with troubleshooting, optimization techniques and quality assurance methods. The laboratories located in Switzerland and Mexico are continually improving and consolidating our research and development efforts in the areas of cement, concrete, aggregates, admixtures, mortar and asphalt technology, sustainability and energy management. In addition, CEMEX Global R&D actively generates and registers patents and pending applications in many of the countries in which CEMEX operates. Patents and trade secrets are managed strategically to achieve important technology lock-ins associated with CEMEX technology.

Our information technology divisions develop information management systems and software relating to cement and ready-mix concrete operational practices, automation and maintenance. These systems have helped us to better serve our clients with respect to purchasing, delivery and payment. More importantly, thanks to the activities of the Business Process and information technology departments, CEMEX is continuously improving and innovating its business processes to adapt them to the dynamically evolving markets to better serve CEMEX's needs. The launch of CEMEX Go and its deployment throughout our operations is a testament to our commitment to evolve our digital commercial model to better serve the market and our customers.

R&D activities comprise part of the daily routine of the aforementioned departments and divisions. Therefore, the costs associated with such activities are expensed as incurred. In 2020, 2021 and 2022, total combined expenses of these departments recognized within administrative expenses were \$39 million, \$44 million and \$42 million, respectively. We capitalize the costs incurred in the development of software for internal use which are amortized in operating results over the estimated useful life of the software, which is approximately five years. Capitalized direct costs incurred in the development stage of internal-use software, such as professional fees, direct labor and related travel expenses amounted to \$40 million in 2020, \$132 million in 2021 and \$136 million in 2022. See notes 6 and 16.1 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Trend Information

Other than as disclosed elsewhere in this report, we are not aware of any trends, uncertainties, demands, commitments or events for the year ended December 31, 2022 that are reasonably likely to have a material and adverse effect on our revenues, income, profitability, liquidity or capital resources, or that would cause the disclosed financial information to be not necessarily indicative of future results of operations or financial conditions.

Summary of Material Contractual Obligations and Commercial Commitments

2021 Credit Agreement

On October 29, 2021, CEMEX, S.A.B. de C.V. entered into the 2021 Credit Agreement for up to \$3.25 billion to refinance indebtedness (including the 2017 Facilities Agreement) and general corporate purposes. The 2021 Credit Agreement consists of a \$1.5 billion 5-year amortizing term loan facility and a \$1.75 billion 5-year committed revolving credit facility. The 2021 Credit Agreement has financial covenants consistent with an investment grade capital structure, with a maximum leverage ratio of 3.75x throughout the life of the facility, and a minimum interest coverage ratio of 2.75x. The 2021 Credit Agreement is denominated exclusively in Dollars and includes an interest rate margin grid that is about 25 basis points lower on average than that of the 2017 Facilities Agreement. Furthermore, the 2021 Credit Agreement is the first debt to be issued under the Sustainability-Linked Financing Framework, which is aligned to the company's

Future in Action strategy and its ultimate vision of a carbon-neutral economy. The annual performance in respect of the three metrics referenced in the 2021 Credit Agreement, which are aligned with those provided for in the Sustainability-Linked Financing Framework, may result in an adjustment of the interest rate margin of up to plus or minus five basis points, in line with other sustainability-linked loans from investment grade rated borrowers.

As of December 31, 2022, we reported an aggregate principal amount of outstanding debt of \$1,800 million under the 2021 Credit Agreement. As of November 8, 2021, commitments initially available under the 2021 Credit Agreement included up to \$3.25 billion, out of which \$1,750 million were in the committed revolving credit tranche under the 2021 Credit Agreement. As of December 31, 2022, the Term Loans under the 2021 Credit Agreement had an amortization profile of \$300 million in semi-annual principal payments (as such payments may be reduced as a result of prepayments) commencing in November 2024, plus any applicable interest, in accordance with the 2021 Credit Agreement. For a discussion of restrictions and covenants under the 2021 Credit Agreement, see “Risk Factors—Risks Relating to Our Business and Operations—The Credit Agreements contain several restrictions and covenants. Our failure to comply with such restrictions and covenants could have a material adverse effect on our business and financial conditions.”

Mexican Peso Banorte Agreement

On December 20, 2021, CEMEX, S.A.B. de C.V. entered into the Mexican Peso Banorte Agreement under terms and conditions substantially similar to those of the 2021 Credit Agreement. As of December 31, 2022, we had drawn the entirety of the only term loan thereunder for the then-equivalent of \$255 million Mexican Pesos. Furthermore, the borrowing under the Mexican Peso Banorte Agreement is also issued under the Sustainability-Linked Financing Framework.

2022 EUR Credit Agreement

On October 7, 2022, CEMEX, S.A.B. de C.V. entered into the 2022 EUR Credit Agreement for €500 million under terms and conditions substantially similar to those of the 2021 Credit Agreement, for general corporate purposes (including to refinance indebtedness). The 2022 EUR Credit Agreement consists of a 3-year non-amortizing term loan facility. The 2022 EUR Credit Agreement has financial covenants consistent with an investment grade capital structure, with a maximum leverage ratio of 3.75x throughout the life of the facility, and a minimum interest coverage ratio of 2.75x. The 2022 EUR Credit Agreement is denominated exclusively in Euros, and the loans bear interest at a rate per annum equal to the EURIBOR rate plus a margin ranging from 115 basis points to 190 basis points, depending on our leverage ratio (subject to the sustainability-linked adjustments described below). Furthermore, the borrowing under the 2022 EUR Credit Agreement is also issued under the Sustainability-Linked Financing Framework. The annual performance in respect of the three metrics referenced in the 2022 EUR Credit Agreement, which are aligned with those provided for in the Sustainability-Linked Financing Framework, may result in an adjustment of the interest rate margin of up to plus or minus five basis points, in line with other sustainability-linked loans from investment grade rated borrowers. As of December 31, 2022 we had drawn the entirety of the only term loan under the 2022 EUR Credit Agreement for the then Euro equivalent of \$498 million.

As of December 31, 2022, we reported an aggregate amount of outstanding debt of \$535 million under the 2022 EUR Credit Agreement. For a discussion of restrictions and covenants under the 2022 EUR Credit Agreement, see “Risk Factors—Risks Relating to Our Business and Operations—The Credit Agreements contain several restrictions and covenants. Our failure to comply with such restrictions and covenants could have a material adverse effect on our business and financial conditions.”

Notes

CEMEX’s 3.125% Euro-denominated Notes due 2026 (the “March 2026 Euro Notes”), 5.450% Dollar-denominated Notes due 2029 (the “November 2029 Dollar Notes”), 7.375% Dollar-denominated Notes due 2027 (the “June 2027 Dollar Notes”), 5.200% Dollar-denominated Notes due 2030 (the “September 2030 Dollar Notes”) and 3.875% Dollar-denominated Notes due 2031 (the “July 2031 Dollar Notes”) collectively as the Notes.

The indentures governing our outstanding Notes impose operating and financial restrictions on us. These restrictions limit our ability, among other things, to: (i) incur debt, including restrictions on incurring debt at our subsidiaries, which are not parties to the indentures governing the Notes; (ii) pay dividends on stock; (iii) redeem stock or redeem subordinated debt; (iv) make investments; (v) guarantee indebtedness; and (vi) create or assume liens.

March 2026 Euro Notes. On March 19, 2019, CEMEX, S.A.B. de C.V. issued €400 million aggregate principal amount of its March 2026 Euro Notes in transactions exempt from registration pursuant to Rule 144A and Regulation S under the Securities Act. The Refinancing Guarantors fully and unconditionally guarantee the performance of all obligations of CEMEX, S.A.B. de C.V. under the March 2026 Euro Notes.

November 2029 Dollar Notes. On November 19, 2019, CEMEX, S.A.B. de C.V. issued \$1.0 billion aggregate principal amount of its November 2029 Dollar Notes in transactions exempt from registration pursuant to Rule 144A and Regulation S under the Securities Act. The Refinancing Guarantors fully and unconditionally guarantee the performance of all obligations of CEMEX, S.A.B. de C.V. under the November 2029 Dollar Notes.

June 2027 Dollar Notes. On June 5, 2020, CEMEX, S.A.B. de C.V. issued \$1.0 billion aggregate principal amount of its June 2027 Dollar Notes in transactions exempt from registration pursuant to Rule 144A and Regulation S under the Securities Act. The Refinancing Guarantors fully and unconditionally guarantee the performance of all of our obligations under the June 2027 Dollar Notes.

September 2030 Dollar Notes. On September 17, 2020, CEMEX, S.A.B. de C.V. issued \$1.0 billion aggregate principal amount of its September 2030 Dollar Notes in transactions exempt from registration pursuant to Rule 144A and Regulation S under the Securities Act. The Refinancing Guarantors fully and unconditionally guarantee the performance of all of our obligations under the September 2030 Dollar Notes.

July 2031 Dollar Notes. On January 12, 2021, CEMEX, S.A.B. de C.V. issued \$1.75 billion aggregate principal amount of its July 2031 Dollar Notes in transactions exempt from registration pursuant to Rule 144A and Regulation S under the Securities Act. The Refinancing Guarantors fully and unconditionally guarantee the performance of all of our obligations under the July 2031 Dollar Notes.

On November 8, 2021, concurrently with funding under the 2021 Credit Agreement and in accordance with indentures that governed our then outstanding senior secured notes, CEMEX entered into supplemental indentures to add COM and CIH as new guarantors to each of the Notes. CEMEX Corp. and CEMEX Concretos, S.A. de C.V. were already guarantors of the Notes. Also, concurrently with funding under the 2021 Credit Agreement and the full repayment of the 2017 Facilities Agreement, the provisions contained in the indentures governing the Notes that provide that any guarantor of the Notes shall be released of its guarantee obligations upon a refinancing of the 2017 Facilities Agreement with debt not guaranteed by the guarantor were triggered. As a result, both the Credit Agreements and the Notes are now guaranteed exclusively by the Refinancing Guarantors. The original note guarantors that are no longer guaranteeing the Notes are CEMEX España, CEMEX Asia B.V., CEMEX Finance LLC, CEMEX Africa & Middle East Investments B.V., CEMEX France Gestion (S.A.S.), CEMEX Research Group AG and CEMEX UK.

Subordinated Notes

5.125% Subordinated Notes. On June 8, 2021, CEMEX, S.A.B. de C.V. issued \$1.0 billion aggregate principal amount of the 5.125% Subordinated Notes with no fixed maturity and subordinated to all senior obligations, and senior only to equity, in transactions exempt from registration pursuant to Rule 144A and Regulation S under the Securities Act.

Commercial Commitments

On July 27, 2012, we entered into a Master Professional Services Agreement with IBM (the “IBM 2012 MPSA”). The IBM 2012 MPSA provides the framework for the ordinary course of business-related services IBM provides to us on a global scale, including: information technology, application development and maintenance, finance and accounting services, and human resources administration. The term of the IBM 2012 MPSA began on July 27, 2012 and will end on August 31, 2022, unless terminated earlier. Our minimum required payment to IBM under the IBM 2012 MPSA is approximately \$50 million per year. We have the right to negotiate a reduction of service fees every two years if, as a result of a third party’s benchmarking assessment, it is determined that IBM’s fees are greater than those charged by other providers for services of similar nature. We may terminate the IBM 2012 MPSA (or a portion of it) at our discretion and without cause at any time by providing at least six months’ notice to IBM and paying termination charges consisting of IBM’s unrecovered investment and breakage and wind-down costs. In addition, we may terminate the IBM 2012 MPSA (or a portion of it) for cause without paying termination charges. Other termination rights may be available to us for a termination charge that varies depending on the reason for termination. IBM may terminate the IBM 2012 MPSA if we (i) fail to make payments when due or (ii) become bankrupt and do not pay in advance for the services.

On March 31, 2021, we signed an amendment to the IBM 2012 MPSA by which the finance and accounting services were removed from the scope of such agreement and, on the same date, we entered into a new Master Services Agreement with IBM for the provision of finance and accounting services previously provided under the IBM 2012 MPSA (the “IBM 2021 MSA”). On June 30, 2021, we signed an amendment to the IBM 2021 MSA by which advanced cybersecurity services were incorporated into the agreement. On September 30, 2021, we signed another amendment to the IBM 2021 MSA by which the finance and accounting services were modified to incorporate advanced order-to-cash services. The cybersecurity services under the IBM 2021 MSA will end on June 30, 2026 and the finance and accounting services under the IBM 2021 MSA will end on December 31, 2028, unless terminated earlier. In comparison with the IBM 2012 MPSA, the IBM 2021 MSA includes provisions for automation, as well as provisions for increased consumption flexibility and a reassessment of service level requirements. As with the IBM 2012 MPSA, we may terminate the IBM 2021 MSA (or a portion of it) at our discretion and without cause at any time by providing at least six months’ notice to IBM and paying the corresponding termination charges. Other termination rights may be available to us for a termination charge that varies depending on the reason for termination. IBM may terminate the IBM 2021 MSA if we (i) fail to make payments when due or (ii) become bankrupt and do not pay in advance for the services. See note 24.2 to our 2022 audited consolidated financial statements included in the February 23 6-K.

On February 8, 2022, we renewed or entered into new agreements with six service providers in the fields of data processing services (back office) in finance, accounting and human resources; as well as Information Technology (“IT”) infrastructure services, support and maintenance of IT applications in the countries in which we operate, for a tenure of five to seven years at an average annual cost of \$60 million. These contracts replaced the agreements we maintained with IBM which expired on August 31, 2022.

As of December 31, 2022, we did not depend on any single one of our suppliers of goods or services to conduct our business.

Cash Requirements

As of December 31, 2022, we had material cash requirements as set forth in the table below.

Obligations	As of December 31, 2022				
	Less than 1 year	1-3 years	3-5 years	More than 5 Years	Total
Non-current debt	\$ 45	\$ 1,820	\$ 2,567	\$ 2,578	\$ 7,010
Leases ⁽¹⁾	304	428	244	535	1,511
Total debt and other financial obligations ⁽²⁾	349	2,248	2,811	3,113	8,521
Interest payments on debt ⁽³⁾	396	705	398	366	1,865
Pension plans and other benefits ⁽⁴⁾	145	279	279	682	1,385
Acquisition of property, plant and equipment ⁽⁵⁾	86	67	3	—	156
Purchases of services, raw material, fuel and energy ⁽⁶⁾	785	837	695	645	2,962
Total cash requirements	<u>\$ 1,761</u>	<u>\$ 4,136</u>	<u>\$ 4,186</u>	<u>\$ 4,806</u>	<u>\$14,889</u>

- (1) Represent nominal cash flows. As of December 31, 2022, the net present value of future payments under such leases was \$1,075 million, of which, \$368 million refers to payments from one to three years and \$183 million refer to payments from three to five years. See note 24.1 to our 2022 audited consolidated financial statements included in the February 23 6-K.
- (2) The schedule of debt payments, which includes current maturities, does not consider the effect of any refinancing of debt that may occur during the following years. In the past, we have replaced our non-current obligations for others of a similar nature.
- (3) Estimated cash flows on floating rate denominated debt were determined using the floating interest rates in effect as of December 31, 2022.
- (4) Represents estimated annual payments under these benefits for the next 10 years (see note 19 to our 2022 audited consolidated financial statements included in the February 23 6-K), including the estimate of new retirees during such future years.
- (5) Refers mainly to the expansion of a cement-production line in the Philippines.
- (6) Future payments for the purchase of raw materials are presented on the basis of contractual nominal cash flows. Future nominal payments for energy were estimated for all contractual commitments on the basis of an aggregate average expected consumption per year using the future prices of energy established in the contracts for each period. Future payments also include our commitments for the purchase of fuel. In addition, this line item includes a contractual commitment with Neoris over a 5-year contract beginning in 2023 until 2027 for the acquisition of digitalization services and solutions for an annual amount of \$55 million. Moreover, this line item includes our commitments with six vendors for back-office services for an average annual amount of \$60 million.

As of December 31, 2020, 2021 and 2022, in connection with the commitments for the purchase of fuel and energy included in the table above, a description of the most significant contracts is as follows:

On October 24, 2018, we entered into two fixed-for-floating energy financial hedge agreements in Mexico, for a period of 20 years starting in 2020 with the solar power plants Tuli Energía and Helios Generación.

Pursuant to these agreements, we fixed the megawatt-hour price (which increases at a fixed annual rate) over an electric energy volume per year and the differential between the agreed price and the market price is settled monthly. We consider these agreements to be a hedge for a portion of our aggregate consumption of electric energy in Mexico and recognize the result of the exchange of price differentials described previously in the statement of operations as a part of the costs of energy. During 2022, we received \$3 million as a result of these hedges. We do not record these agreements at fair value because there is not a deep market for electric power in Mexico that would effectively allow for their valuation.

In connection with the Ventikas, located in the Mexican state of Nuevo León with a combined generation capacity of 252 MW, we agreed to acquire a portion of the energy generated by Ventikas for our overall electricity needs in Mexico for a period of 20 years, which began in April 2016. As of December 31, 2022, the estimated annual cost of this agreement was \$23 million, assuming energy generation at full capacity (energy supply from wind sources is variable in nature and final amounts can be determined only based on energy ultimately received at the agreed prices per unit).

Beginning in February 2010, for our overall electricity needs in Mexico, we reached an agreement with the EURUS Wind Farm (“EURUS”) for the purchase of a portion of the electric energy generated for a period of no less than 20 years. EURUS is a wind farm with an installed capacity of 250 MW operated by ACCIONA in the Mexican state of Oaxaca. The estimated annual cost of this agreement is \$70 million assuming that we receive all our energy allocation. Energy supply from wind sources is variable in nature and final amounts can be determined only based on energy ultimately received at the agreed prices per unit.

We maintain a commitment initiated in April 2004 to purchase the energy generated by TEG until 2027 for our overall electricity needs in Mexico. The estimated annual cost of this agreement is \$205 million assuming we receive all our energy allocation. Nonetheless, final amounts will be determined considering the final megawatt hour effectively received at the agreed prices per unit.

In connection with the above, we also committed to supply TEG and another third-party electrical energy generating plant adjacent to TEG all fuel necessary for their operations until the year 2027, equivalent to approximately 1.2 million tons of pet coke per year. We cover our commitments under this agreement by acquiring the aforementioned volume of fuel from sources in the international markets and Mexico.

Off-Balance Sheet Arrangements

We do not have any off-balance sheet arrangements that are reasonably likely to have a material effect on our financial condition, operating results and liquidity or capital resources.

Quantitative and Qualitative Market Disclosure

Our Derivative Financial Instruments

In the ordinary course of business, we are exposed to credit risk, interest rate risk, foreign exchange risk, equity risk, commodities risk and liquidity risk, considering the guidelines set forth by CEMEX, S.A.B. de C.V.'s board of directors, which represent our risk management framework and are supervised by several of our committees.

Our management establishes specific policies that determine strategies focused on obtaining natural hedges or risk diversification to the extent possible, such as avoiding customer concentration on a determined market or aligning the currencies portfolio in which we incur our debt with those in which we generate our cash flows. As of December 31, 2021 and 2022, these strategies were sometimes complemented by the use of derivative financial instruments. See notes 17.4 and 17.5 to our 2022 audited consolidated financial statements included in the February 23 6-K.

During the reported periods, in compliance with the guidelines established by our risk management committee, the restrictions set forth by our debt agreements and our hedging strategy, we held derivative instruments, with the objectives of, as the case may be: (a) changing the risk profile or fixing the price of fuels; (b) foreign exchange hedging; (c) hedge of forecasted transactions; and (d) other corporate purposes. See note 17.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

As of December 31, 2021 and 2022 the notional amounts and fair values of our derivative instruments were as follows:

(in millions of Dollars)	At December 31, 2021		At December 31, 2022		Maturity Date
	Notional Amount	Estimated Fair value	Notional Amount	Estimated Fair value	
Net investment hedge	1,511	3	837	(48)	June 2024
Interest Rate Swaps	1,005	(18)	1,018	54	November 2026
Fuel price hedging	145	30	136	8	December 2023
Foreign exchange options	250	6	500	18	December 2024
	<u>2,911</u>	<u>21</u>	<u>2,491</u>	<u>32</u>	

The caption "Financial income and other items, net" in the statement of operations includes gains and losses related to the recognition of changes in fair values of the derivative financial instruments during the applicable period, which represented net losses of \$17 million in 2020, \$6 million in 2021 and \$5 million in 2022. As described below, changes in fair value of our net investment hedge are recognized in other comprehensive income for the period as part of our currency translation results. In addition, changes in fair value of our outstanding interest rate swaps related to debt are recognized as part of our financial expense in the statement of operations. Changes in fair value of our fuel price hedging derivatives are temporarily recognized through other comprehensive income and are allocated to operating expenses as the related fuel volumes are consumed.

Our Net Investment Hedge. As of December 31, 2021 and 2022, there are Dollar/Peso foreign exchange forward contracts with target tenor ranging from 1 to 18 months for a notional amount of \$761 million and \$738 million, respectively. We have designated this program as a hedge of our net investment in Pesos, pursuant to which changes in fair market value of these instruments are recognized as part of other comprehensive income in equity. For the years 2020, 2021 and 2022, these contracts generated gains of \$53 million, losses of \$4 million and losses of \$96 million, respectively, which partially offset currency translation results in each year recognized in equity generated from our net assets denominated in Pesos due to the depreciation of the Peso in 2020 and 2021 and the appreciation of the Peso in 2022.

In addition, as of December 31, 2022, as part of our Peso net investment hedge strategy, there are additional Dollar/Peso capped forwards, structured with option contracts, for a notional amount of \$98 million. These capped forwards contain limits on the gain that the instrument may generate. Any changes in fair market value of such capped forward contracts are also recognized as part of other comprehensive income in equity. For the year 2022, these contracts generated losses of \$2 million, which partially offset currency translation results recognized in equity generated from our net assets denominated in Pesos, due to the appreciation of the Peso in 2022.

Moreover, as of December 31, 2021, there was Dollar/Euro cross currency swap contracts for a notional amount of \$750 million, which were entered into in November 2021. During the year 2022, we unwound these instruments, fixing a settlement gain of \$80 million. We designated the foreign exchange forward component of these instruments as a hedge of our net investment in Euros, pursuant to which changes in fair market of such forward contracts were recognized as part of other comprehensive income in equity, while changes in fair value of the interest

rate swap component were recognized within “Financial income and other items, net.” For the years ended December 31, 2021 and 2022, these contracts generated respective gains of \$10 million and \$70 million, recognized in equity, which partially offset currency translation results recognized in equity generated from our net assets denominated in Euros due to the depreciation of the Euro in 2021 and 2022 against the Dollar, as well as losses in 2021 of \$1 million and gains in 2022 of \$8 million related to the exchange of interest rates in the statement of operations.

See note 17.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Our Interest Rate Swaps. For accounting purposes under IFRS, CEMEX designates interest rate swaps as cash flow hedges, to fix interest rate payments in relation to an equivalent amount of floating interest rate debt; therefore, changes in fair value of these contracts are initially recognized as part of other comprehensive income in equity and are subsequently reclassified to financial expense as the interest expense of the related floating interest rate debt is accrued in the statement of operations.

As of December 31, 2021 and 2022, we held interest rate swaps for a notional amount of \$750 million, in both periods, with a fair market value representing liabilities of \$30 million in 2021 and assets of \$39 million in 2022, negotiated in June 2018 to fix interest payments of existing bank loans bearing Dollar floating rates. During September 2020, we amended one of the interest rate swap contracts to reduce the weighted average fixed rate from 3.05% to 2.56% paying \$14 million and, in November 2021, we partially unwound its interest rate swap paying \$5 million, recognized within “Financial income and other items, net” in the statement of operations. In November 2021, these contracts were extended, and they will mature in November 2026. For the years ended in 2020, 2021 and 2022, changes in fair value of these contracts generated losses of \$9 million, gains of \$23 million and gains of \$69 million, respectively, recognized in other comprehensive income. Moreover, during the same periods, we recycled results from equity to the line item of “Financial expenses” representing an expense of \$20 million in 2020, \$22 million in 2021 and \$2 million in 2022.

In addition, as of December 31, 2021 and 2022, we held interest rate swaps for a notional of \$255 million and \$268 million, respectively, negotiated to fix interest payments of existing bank loans referenced to Peso floating rates maturing in November 2023, which fair value represented an asset of \$12 million in 2021 and \$15 million in 2022. During December 2021, we partially unwound this interest rate swap receiving \$3 million recognized within “Financial income and other items, net” in the statement of operations. We designated these contracts as cash flow hedges, pursuant to which, changes in fair value are initially recognized as part of other comprehensive income in equity and are subsequently allocated through financial expense as interest expense on the related bank loans is accrued. For the years ended December 31, 2020, 2021 and 2022 changes in fair value of these contracts generated losses of \$3 million, gains of \$15 million and gains of \$3 million, respectively, recognized in other comprehensive income. Moreover, during the same periods, we recycled results from equity to the line item of “Financial expenses” representing expenses of \$0.1 million in 2020, expenses of \$0.3 million in 2021 and gains of \$7 million in 2022.

In addition, during March 2022, as part of a forecasted debt issuance expected by mid-2023, we entered into interest rate swap lock contracts for a notional of \$300 million. We designated these interest rate swap lock contracts as a cash flow hedge of the forecasted debt transaction. During 2022, changes in fair value of these contracts generated gains of \$33 million recognized in other comprehensive income. During September 2022, we early settled these interest rate swap lock contracts and fixed the gain of \$33 million, which will decrease the financial expense commencing when the debt is issued; otherwise, the amount will remain in equity.

Our Fuel Price Hedging Derivatives. As of December 31, 2021 and 2022, we maintained swap and option contracts negotiated to hedge the price of certain fuels, primarily diesel and gas, in several operations for aggregate notional amounts of \$145 million and \$136 million, respectively, with an estimated aggregate fair value representing assets of \$30 million in 2021 and of \$8 million in 2022. By means of these contracts, for its own consumption only, we either fixed the price of these fuels, or entered into option contracts to limit the prices to be paid for these fuels, over certain volumes representing a portion of the estimated consumption of such fuels in several operations. These contracts have been designated as cash flow hedges of diesel or gas consumption, and as such, changes in fair value are recognized temporarily through other comprehensive income and are recycled to operating expenses as the related fuel volumes are consumed. For the years 2020, 2021 and 2022, changes in fair value of these contracts recognized in other comprehensive income represented gains of \$7 million, gains of \$22 million and losses of \$25 million, respectively. Moreover, during the same periods, we recycled results from equity to the line items “Cost of sales” and “Operating expenses,” as applicable, representing expenses of \$24 million in 2020, gains of \$36 million in 2021 and gains of \$88 million in 2022.

Foreign Exchange Options. As of December 31, 2021 and 2022, we held Dollar/Peso call spread option contracts for a notional amount of \$250 million and \$500 million, respectively. Such contracts mature between September 2024 and December 2024 and were negotiated to maintain the value in Dollars over such notional amount over revenues generated in Pesos. Changes in the fair value of these instruments, generated losses of \$5 million in 2021 and losses of \$13 million in 2022, recognized within “Financial income and other items, net” in the statement of operations.

Other Derivative Financial Instruments. During 2020, we negotiated Dollar/Peso, Dollar/Euro and Dollar/ British Pound foreign exchange forward contracts to sell Dollars and Pesos and buy Euro and Pounds Sterling, negotiated in connection with the voluntary prepayment and currency exchanges under the 2017 Facilities Agreement, for a combined notional amount of \$397 million. For the year 2020, the aggregate results from positions entered and settled, generated losses of \$15 million recognized within “Financial income and other items, net” in the statements of operation. Additionally, during 2020, we negotiated Dollar/Euro foreign exchange forward contracts to sell Dollars and buy Euro, negotiated in connection with the redemption of the 4.625% Senior Secured Notes due 2024 previously issued by CEMEX, S.A.B. de C.V. For the year 2020, the aggregate results of these instruments from positions entered and settled, generated gains of \$3 million, recognized within “Financial income and other items, net” in the statement of operations.

Moreover, in connection with the proceeds from the sale of certain assets in the United Kingdom, we negotiated British Pound/Euro foreign exchange forward contracts to sell Pounds Sterling and buy Euro for a notional amount of \$186 million. We settled such derivatives on August 5, 2020. During the year 2020, changes in the fair value of these instruments and their settlement generated gains of \$9 million recognized within “Financial income and other items, net” in the statement of operations. See notes 4.2 and 17.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

With respect to our existing financial derivatives, we may incur net losses and be subject to margin calls that will require cash. Likewise, if we enter into new derivative financial instruments, we may incur net losses and be subject to margin calls. The cash required to cover the margin calls may be substantial and may reduce the funds available to us for our operations or other capital needs.

As with any derivative financial instrument, we assume the creditworthiness risk of the counterparty, including the risk that the counterparty may not honor its obligations to us. Before entering into any derivative financial instrument, we evaluate, by reviewing credit ratings and our business relationship according to our policies, the creditworthiness of the financial institutions and corporations that are prospective counterparties to our derivative financial instruments. We select our counterparties to the extent we believe that they have the financial capacity to meet their obligations in relation to these instruments. Under current financial conditions and volatility, we cannot assure that risk of non-compliance with the obligations agreed to with such counterparties is minimal. See notes 17.4 and 17.5 to our 2022 audited consolidated financial statements included in the February 23 6-K.

The fair value of derivative financial instruments is based on estimated settlement costs or quoted market prices and supported by confirmations of these values received from the counterparties to these financial instruments. The notional amounts of derivative financial instrument agreements are used to measure interest to be paid or received and do not represent the amount of exposure to credit loss.

Interest Rate Risk, Foreign Currency Risk and Equity Risk

Interest Rate Risk. The table below presents tabular information of our fixed and floating rate non-current foreign currency-denominated debt as of December 31, 2022. Average floating interest rates are calculated based on forward rates in the yield curve as of December 31, 2022. Future cash flows represent contractual principal payments. The fair value of our floating rate non-current debt is determined by discounting future cash flows using borrowing rates available to us as of December 31, 2022 and is summarized as follows:

Non-Current Debt ⁽¹⁾	Expected maturity dates as of December 31, 2022						Fair Value
	2023	2024	2025	2026	After 2027	Total	
	(In millions of Dollars, except percentages)						
Variable rate	0	174	878	653	45	1,750	1,788
Average interest rate	3.17%	4.96%	4.00%	5.24%	5.40%		
Fixed rate	2	211	559	836	3,564	5,172	4,957
Average interest rate	3.23%	5.13%	5.89%	4.15%	5.45%		

(1) The information above includes the current maturities of the non-current debt. Total non-current debt as of December 31, 2022 does not include our other financial obligations and the 5.125% Subordinated Notes for an aggregate amount of \$2,854 million issued by consolidated entities. See notes 17.2 and 21.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

As of December 31, 2022, we were subject to the volatility of floating interest rates, which, if such rates were to increase, may adversely affect our financing cost and our net income. As of December 31, 2020, 17% of our long-term debt bore floating rates at a weighted average interest rate of LIBOR plus 294 basis points. As of December 31, 2021, 10% of our long-term debt bore floating rates at a weighted average interest rate of LIBOR plus 150 basis points. As of December 31, 2022, 21% of our long-term debt bore floating rates at a weighted average interest rate of LIBOR plus 148 basis points. As of December 31, 2020, 2021 and 2022, if interest rates at that date had been 0.5% higher, with all other variables held constant, our net income for 2020, 2021 and 2022 would have been reduced by \$17 million, \$7 million and \$13 million, respectively, as a result of higher interest expense on variable-rate debt. However, this analysis does not include the interest rate swaps held by us during 2020, 2021 and 2022. See notes 17.4 and 17.5 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Foreign Currency Risk. Due to our geographic diversification, our revenues are generated in various countries and settled in different currencies. However, some of our production costs, including fuel and energy, and some of our cement prices, are periodically adjusted to take into account fluctuations between the Dollar and the other currencies in which we operate. For the year ended December 31, 2022, 21% of our revenues, before eliminations resulting from consolidation, were generated in Mexico, 27% in the United States, 5% in the United Kingdom, 4% in France, 3% in Germany, 2% in Poland, 2% in Spain, 2% in Philippines, 5% in Israel, 4% in the Rest of EMEAA segment, 2% in Colombia, 1% in Panama, 2% in Caribbean TCL, 2% in the Dominican Republic, 2% in the Rest of SCA&C segment and 16% from our Other operations.

Foreign exchange gains and losses occur by monetary assets or liabilities in a currency different from its functional currency and are recorded in the consolidated statements of operations, except for exchange fluctuations associated with foreign currency indebtedness directly related to the acquisition of foreign entities and related parties' long-term balances denominated in foreign currency, for which the resulting gains or losses are reported in other comprehensive income. As of December 31, 2021 and 2022, excluding from the sensitivity analysis the impact of translating the net assets of foreign operations into our reporting currency and considering a hypothetical 10% strengthening of the Dollar against the Mexican Peso, with all other variables held constant, our net income for 2021 and 2022 would have decreased by \$9 million and decreased \$42 million, respectively, as a result of higher foreign exchange losses on our Dollar-denominated net monetary liabilities held in consolidated entities with other functional currencies. Conversely, a hypothetical 10% weakening of the Dollar against the Mexican Peso would have had the opposite effect.

As of December 31, 2022, 77% of our total debt plus other financial obligations was Dollar-denominated, 13% was Euro-denominated, 2% was Pound Sterling-denominated, 5% was Mexican Peso-denominated, 2% was Philippine Peso-denominated, and 1% was denominated in other currencies. Therefore, we had a foreign currency exposure arising from the debt plus other financial obligations denominated in Dollars and the debt and other financial obligations denominated in Euros versus the currencies in which our revenues are settled in most countries in which we operate. We cannot guarantee that we will generate sufficient revenues in Dollars and Euros from our operations to service these obligations. As of December 31, 2022, we had implemented a derivative financing hedging strategy using foreign exchange options for a notional amount of \$500 million to hedge the value in Dollar terms of revenues generated in Pesos to partially address this foreign currency risk. See notes 17.4 and 17.5 to our 2022 audited consolidated financial statements included in the February 23 6-K. Complementarily, we may negotiate other derivative financing hedging strategies in the future if either of our debt portfolio currency mix, interest rate mix, market conditions and/or expectations changes.

In addition, considering that CEMEX S.A.B. de C.V.'s functional currency for all assets, liabilities and transactions associated with its financial and holding company activities is the Dollar, there is foreign currency risk associated with the translation of subsidiaries' net assets denominated in different currencies (Mexican Peso, Euro, Pound Sterling and other currencies) into Dollars. When the Dollar appreciates, the value of CEMEX S.A.B. de C.V.'s net assets denominated in other currencies decreases in terms of Dollars, generating negative foreign currency translation and reducing stockholders' equity. Conversely, when the Dollar depreciates, the value of CEMEX S.A.B. de C.V.'s net assets denominated in other currencies would increase in terms of Dollars generating the opposite effect. As mentioned above in our derivative financial instruments section, we have implemented a Dollar/Mexican Peso foreign exchange forward contract program to hedge foreign currency translation in connection with our net assets denominated in Mexican Pesos. See notes 2.5 and 17.5 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Equity Risk. Equity risk represents the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in the market price of CEMEX, S.A.B. de C.V.'s and/or a third party's shares.

Considering specific objectives, we have negotiated equity forward contracts on third-party shares. Under these equity derivative instruments, there is a direct relationship from the change in the fair value of the derivative with the change in price of the underlying share. All changes in fair value of such derivative instruments are recognized in the statement of operations as part of "Financial income and other items, net." During the reported periods effects were not significant. As of December 31, 2022, we do not have derivative financial instruments based on the price of the Parent Company's shares or any third-party's shares. See notes 17.4 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Liquidity Risk. Liquidity risk represents the risk that we will not have sufficient funds available to meet our obligations. In addition to cash flows provided by our operating activities, in order to meet our overall liquidity needs for operations, servicing debt and funding capital expenditures and acquisitions, we rely on cost-cutting and operating improvements to optimize capacity utilization and maximize profitability, as well as borrowing under credit facilities, proceeds of debt and equity offerings, and proceeds from asset sales. We are exposed to risks from changes in foreign currency exchange rates, prices and currency controls, interest rates, inflation, governmental spending, social instability and other political, economic and/or social developments in the countries in which we operate, any one of which may materially affect our results and reduce cash from operations. As of December 31, 2022, we had \$1,450 million available under the committed revolving credit tranche under the 2021 Credit Agreement.

As of December 31, 2022, current liabilities, which included \$987 million of current maturities of debt and other financial obligations, exceeded current assets by \$1,020 million. It is noted that as part of our operating strategy implemented by our management, we operate with a negative working capital balance. For the year ended December 31, 2022, we generated net cash flows provided by operating activities of \$1,475 million. In addition, as of December 31, 2022, we had \$1,450 million available under the committed revolving credit facility under the 2021 Credit Agreement and had \$560 million under other uncommitted lines of credit subject to the lenders' availability. See notes 17.1, 17.2, 17.5 and 24.1 to our 2022 audited consolidated financial statements included in the February 23 6-K.

Investments, Acquisitions and Divestitures

The transactions described below represent our principal investments, acquisitions and divestitures completed during 2020, 2021 and 2022.

Investments and Acquisitions

On October 4, 2021, we announced that we signed an agreement to acquire from HeidelbergCement a limestone quarry with a waste management operation near the Madrid metropolitan area and 3 concrete plants in the Balearic Islands.

On April 12, 2021, we announced that we signed an agreement to acquire from Eqiom Granulats two aggregates quarries and one rail-enabled platform in the North Paris Metropolitan area.

On February 16, 2021, we announced that we acquired the ready-mix assets of Beck Readymix Concrete Co. LTD., including three ready-mix concrete plants and one portable plant to service the San Antonio, Texas metropolitan area and surrounding areas.

In January 2021, one of our subsidiaries in Israel acquired two ready-mix concrete plants from Kinneret and Beton-He'Emek for an amount in shekels equivalent to \$6 million. As of December 31, 2021, based on the preliminary valuation of the fair values of the assets acquired and liabilities assumed, we determined goodwill in the amount of \$5 million.

During 2020, CEMEX España made the 2020 CLH Tender Offer. As of December 31, 2022, considering the effects of the 2020 CLH Tender Offer and additionally including shares of CLH purchased by us in the secondary market, we indirectly own 95.30% of all outstanding shares of CLH (which excludes shares of CLH owned by CLH). See "Recent Developments—Recent Developments Relating to Our Business and Operations."

From March 10, 2020 to March 24, 2020, under the repurchase program authorized at CEMEX, S.A.B. de C.V.'s ordinary general shareholders meeting held on March 28, 2019, CEMEX, S.A.B. de C.V. repurchased 378.2 million CPOs, which represented 2.5% of CEMEX, S.A.B. de C.V.'s outstanding share capital as of December 31, 2019, at a weighted-average price of 5.01 Mexican Pesos per CPO, which was equivalent to an amount of \$83.2 million, excluding value-added tax. CEMEX, S.A.B. de C.V. did not repurchase any other CPOs between January 1, 2020 and March 10, 2020. On April 8, 2020, we announced that, to enhance our liquidity, we suspended the CEMEX, S.A.B. de C.V. share repurchase program for the remainder of 2020.

On January 29, 2020, CHP announced the results of its stock rights offering pursuant to which 8,293,831,169 common shares of CHP were issued and listed on the Philippine Stock Exchange on March 4, 2020. As of December 31, 2022, after giving effect to the stock rights offering, and other repurchased in the market over the last few years, our indirect ownership of CHP's outstanding common shares had further increased to 77.90%. See "Recent Developments—Recent Developments Relating to Our Business and Operations."

During the first six months of 2020, one of our subsidiaries in Israel acquired Netivei Noy from Ashtrom Industries for an amount in Shekels equivalent to \$33 million. After the conclusion of the purchase price allocation to the fair values of the assets acquired and liabilities assumed of this business, we determined goodwill of \$2 million.

On December 10, 2021, through a subsidiary in Mexico, we acquired Broquers Ambiental, a sustainable waste management company for a total consideration of \$13 million. Broquers Ambiental assets include a plant for solid waste treatment for its use as alternate fuel. During 2022, considering the fair values of the assets acquired and liabilities assumed, we determined goodwill of \$4 million.

On July 11, 2022, through a subsidiary in Germany, we completed the acquisition of a 53% stake in the German aggregates company ProStein for a total consideration of \$21 million. The investment expands our aggregates business in the region and we estimate that it increases the life of the aggregates reserves for our operations in Central Europe for at least the next 25 years. The majority stake in ProStein's assets adds a full range of fine and hard aggregates to our aggregates portfolio. In addition to supplying the greater Berlin area, the additional capacity can supply several urban centers in Poland and the Czech Republic. ProStein's assets include six active hardstone plants and six construction, demolition, and excavation waste (CDEW) recovery sites. As of December 31, 2022, based on the preliminary valuation of the fair values of the assets acquired and liabilities assumed, we have not determined any goodwill.

Divestitures

During 2020, 2021 and 2022, we made divestitures of \$722 million, \$211 million and \$569 million, respectively (which included fixed assets of \$44 million, \$62 million and \$155 million, respectively).

On October 25, 2022, we created a partnership with Advent. As part of the partnership we sold to Advent a 65% stake in Neoris for a total consideration of \$119 million. While surrendering control to Advent, we retained an approximate 35% stake and remained a key strategic partner and customer of Neoris. Our retained approximate 35% stake in Neoris was remeasured at fair value at the date of loss of control, and is subsequently accounted for under the equity method and is presented in the line item "Investments in associates and joint ventures." Neoris' results for the

years ended December 31, 2020 and 2021 and for the period from January 1 to October 25, 2022, and are reported in the statements of operations, net of income tax, in the single line item “Discontinued operations,” including in 2022 as a gain on sale of \$117 million, net of the reclassification of foreign currency translation effects accrued in equity until the date of loss of control.

On August 31, 2022, we announced that we, through certain of our subsidiaries, concluded the sale agreed in December 2021 of our operations in Costa Rica and El Salvador to affiliates of Cementos Progreso Holdings, S.L. for a total consideration of \$325 million, related to our aggregate controlling interest. The divested assets consisted of one fully integrated cement plant, one grinding station, seven ready-mix plants, one aggregate quarry, as well as one distribution center in Costa Rica and one distribution center in El Salvador. As of December 31, 2021, the assets and liabilities related to our operations in Costa Rica and El Salvador were presented in the financial statements in the line items “Assets held for sale” and “Liabilities directly related to assets held for sale.” Our operations of these assets in Costa Rica and El Salvador for the years ended December 31, 2020 and 2021 and for the period from January 1, 2022 to August 31, 2022 are reported in the statements of operations, net of income tax, as part of the single line item “Discontinued operations,” including in 2022 a gain on sale of \$240 million, which includes the reclassification of foreign currency translation effects accrued in equity until the disposal date.

On July 9, 2021, we announced that we concluded the sale agreed in March 2019 of our white cement business, except for Mexico and the U.S., to Çimsa Çimento Sanayi Ve Ticaret A.S. for a total consideration of \$155 million. Assets sold included our Buñol cement plant in Spain and white cement customer list. Our operations of these assets in Spain for the year ended December 31, 2020 and for the period from January 1, 2021 to July 9, 2021 are reported in the statements of operations, net of income tax, as part of the single line item “Discontinued operations,” including in 2021 a loss on sale of \$67 million net of the proportional allocation of goodwill of \$41 million.

On March 31, 2021, we sold 24 concrete plants and one aggregates quarry in France to Holcim for an amount in Euros equivalent to \$44 million. These assets are located in the Rhone Alpes region in the Southeast of France, east of our operations in Lyon. We will retain our business in Lyon. The operations related to these assets for the year ended December 31, 2020 and for the three-month period ended March 31, 2021 are presented in our statements of operations, net of income tax, as part of the single line item “Discontinued operations.”

On August 3, 2020, through an affiliate in the United Kingdom, we closed the sale of certain assets to Breedon for an amount in Pounds equivalent to \$230 million, including \$30 million of debt. The assets included 49 ready-mix plants, 28 aggregate quarries, four depots, one cement terminal, 14 asphalt plants, four concrete products operations, as well as a portion of our paving solutions business in the United Kingdom. After completion of this divestiture, we maintain a significant footprint in key operating geographies in the United Kingdom related to the production and sale of cement, ready-mix concrete, aggregates, asphalt and paving solutions, among others. Our operations of these assets in the United Kingdom for the period from January 1, 2020 to August 3, 2020, which includes a loss on sale of \$57 million net of the proportional allocation of goodwill of \$47 million, is presented in our statements of operations, net of tax, as part of the single line item “Discontinued operations.”

On March 6, 2020, we concluded the sale of our U.S. affiliate Kosmos, a partnership with a subsidiary of Buzzi Unicem S.p.A. in which we held a 75% interest, to Eagle Materials Inc. for \$665 million. The share of proceeds to us from this transaction was \$499 million before transactional and other costs and expenses. The assets that were divested consisted of Kosmos’ cement plant in Louisville, Kentucky, as well as related assets which include seven distribution terminals and raw material reserves. The operations of these assets in the United States for the period from January 1, 2020 to March 6, 2020, which includes a gain on sale of \$14 million, net of the proportional allocation of goodwill of \$291 million, is presented in our statements of operations, net of income tax, as part of the single line item “Discontinued operations.”

We strive to provide superior building solutions in the markets we serve. To this end, we tailor our products and services to suit customers' specific needs, from home construction, improvement and renovation to infrastructure, commercial, industrial, agricultural and marine/hydraulic applications.

Cement

Cement is a binding agent, which, when mixed with sand, stone or other aggregates and water, produces either ready-mix concrete or mortar. Whether in bags or in bulk, we provide our customers with high-quality branded cement products and services. We use our professional knowledge and experience to develop customized products designed to satisfy our clients' specific requirements and that also foster sustainable construction. In many of the countries where we have cement operations, a large proportion of cement sold is a bagged, branded product. We often deliver the product to a large number of distribution outlets such that our bagged, branded cement is available to the end users at a point of sale in close proximity to where the product will be used. We seek to develop brand identity and recognition in our bagged product.

We manufacture cement through a closely controlled chemical process, which begins with the mining and crushing of limestone and clay, and, in some instances, other raw materials. The clay and limestone are then pre-homogenized, a process which consists of combining different types of clay and limestone. The mix is typically dried, then fed into a grinder which grinds the various materials in preparation for the kiln. The raw materials are calcined, or processed, at a very high temperature in a kiln, to produce clinker. Clinker is the intermediate product used in the manufacture of cement. For limestone, clay and gypsum, requirements are based on chemical composition that, depending on the other materials available, matches the quality demanded by the production process. For cement limestone, clay and gypsum, we run chemical tests to prepare the mining plan of the quarry, to confirm material quality and reduce variations in the mineral content. We consider that limestone and clay quality of our cement raw materials quarries are adequate for the cement production process.

There are two primary processes used to manufacture cement: the dry process and the wet process. The dry process is more fuel efficient. As of December 31, 2022, 48 of our 50 operative cement production plants used the dry process and two used the wet process. Our operative production plants that use the wet process are in Nicaragua and Trinidad and Tobago. In the wet process, the raw materials are mixed with water to form slurry, which is fed into a kiln. Fuel costs are greater in the wet process than in the dry process because the water that is added to the raw materials to form slurry must be evaporated during the clinker manufacturing process. In the dry process, the addition of water and the formation of slurry are eliminated, and clinker is formed by calcining the dry raw materials. In the most modern application of this dry process technology, the raw materials are first blended in a homogenizing silo and processed through a pre-heater tower that utilizes exhaust heat generated by the kiln to pre-calcine the raw materials before they are calcined to produce clinker.

Clinker and gypsum are fed in pre-established proportions into a cement grinding mill where they are ground into an extremely fine powder to produce finished cement. We primarily cover our gypsum needs from third parties; however, we also operate gypsum quarries in the United States, Spain, the Dominican Republic and Egypt. Our main types of cement include the following:

Gray Ordinary Portland Cement: Our gray ordinary portland cement is a high-quality, cost-effective building material, mainly composed of clinker, that meets applicable chemical and physical requirements and is widely used in all construction segments: residential, commercial, industrial, and public infrastructure.

White Portland Cement: We manufacture this type of cement with limestone, low iron content kaolin clay, and gypsum. Customers use our white portland cement in architectural works requiring great brightness and artistic finishes, to create mosaics and artificial granite, and for sculptural casts and other applications where white prevails.

Masonry or Mortar: Masonry or mortar is a portland cement that we mix with finely ground inert matter (limestone). Our customers use this type of cement for multiple purposes, including concrete blocks, templates, road surfaces, finishes, and brick work.

Oil-well Cement: Our oil-well cement is a specially designed variety of hydraulic cement produced with gray portland clinker. It usually forges slowly and is manageable at high temperatures and pressures. Produced in classes from A to H and J, our oil-well cement is applicable for different depth, chemical aggression, or pressure levels.

Blended Cement: Blended hydraulic cements are produced by inter-grinding or blending portland cement and supplementary cementitious materials such as ground granulated blast furnace slag, fly ash, silica fume, calcined clay, hydrated limestone, and other pozzolans. The use of blended cements in ready-mix concrete reduces mixing water and bleeding, improves workability and finishing, inhibits sulfate attack and the alkali- aggregate reaction, and reduces the heat of hydration. CEMEX offers an array of blended cements which have a lower CO₂ footprint resulting from their lower clinker content due to the addition of supplementary cementitious materials. The use of blended cements reinforces our dedication to sustainable practices and furthers our objective of offering an increasing range of more sustainable products.

Ready-Mix Concrete

Ready-mix concrete is a combination of cement, fine and coarse aggregates, admixtures (which control properties of the concrete including plasticity, pumpability, freeze-thaw resistance, strength and setting time), and water. We tailor our ready-mix concrete to fit our clients' specific needs. By changing the proportion of water, aggregates, and cement in the mix, we modify our concrete's resistance, manageability, and finish. We also use additives to customize our concrete consistent with the transportation time from our plant to the project, weather conditions at the construction site, and the project's specifications. From our water-resistant to our self- compacting concrete, we produce a great variety of specially designed concrete to meet the many challenges of modern construction.

We develop solutions based on our thorough knowledge and application of ready-mix concrete technology. Leveraging years of experience, a global pool of knowledge, and state-of-the-art expertise about the different ready-mix concrete constituents and their interaction, we offer our customers tailor-designed concrete. CEMEX ready-mix concrete technologists are able to modify the properties of concrete through the use of innovative chemical admixtures, combined with the proper proportions of the various concrete constituents. For example, depending on the type of application and jobsite requirements, we can design ready-mix concrete that is more fluid, stronger, develops strength faster, and also retains workability longer. Through the development of chemical admixtures solutions, our researchers design special concretes that fulfill the construction industry's increasingly demanding performance requirements. CEMEX offers a special ready-mix concrete portfolio, comprised of such products as ultra-rapid hardening concrete, crack-resistant/low shrinkage concrete, self- consolidating concrete, architectural concrete, pervious concrete, antibacterial concrete and a number of others.

We continuously work to improve the properties of ready-mix concrete that make it a key component of sustainable construction: durability, resistance to aggressive environments, light reflection, and capacity to store energy, among others. We also constantly work to develop innovative solutions that advance the sustainability of structures made with ready-mix concrete. This way, our customers can design sustainable buildings that can take advantage of the benefits of concrete in a wide range of applications. We offer engineered concrete for harbors and bridges with a special design of high-performance concrete that combines durability and low maintenance with resistance to aggressive environments, and for industrial applications which consists of concrete with high acid resistance which is robust and durable for such uses as cooling towers. We also offer concrete for building and housing used for structures such as self-compacting concrete that improves the strength and durability of building structures, while reducing energy use and noise due to concrete vibration, and envelope concrete such as structural lightweight concrete or insulating concrete forms which offer insulation solutions to improve energy efficiency in buildings, and concrete for building design that takes advantage of concrete's capacity to store energy—its thermal mass—minimizing temperature fluctuations in a building over the course of the day, reducing the need for additional heating and cooling. We also offer ready-mix concrete for water and wastewater management and for roads and pavements.

The types of ready-mix concrete we offer our clients include, but are not limited to:

Standard Ready-Mix Concrete: Standard ready-mix concrete is the most common form of concrete. It is prepared for delivery at a concrete plant instead of mixed on the construction site.

Architectural and Decorative Concrete: This type of ready-mix concrete can provide a structural function, as well as an aesthetic or decorative finish. It can offer smooth or rough surfaces or textures, as well as a variety or range of colors.

Rapid-Setting Concrete: Designed to enhance early strength development, this type of ready-mix concrete allows fast formwork removal, accelerated construction sequencing, and rapid repair for such jobs as roads and airport runways. Typically used in low temperature (5-10°C) concreting during winter, this type of ready-mix concrete can also be used in buildings, railways, and precast applications. In addition to saving time, this type of ready-mix concrete technology offers improved durability and acid resistance.

Fiber-Reinforced Concrete: Ready-mix concrete designed with micro or macro fibers that can be used either for structural applications, where the fibers can potentially substitute for steel rebar reinforcement, or for reducing shrinkage, primarily early age shrinkage. Macro fibers can significantly increase the ductility of concrete, making it highly resistant to crack formation and propagation.

Fluid-Fill Concrete: Fluid mortar or ready-mix concrete simplifies the process of laying pipe and cable by surrounding the pipe or cable with a tightly packed shell that provides protection from the elements, prevents settling, and enables crews to work quickly.

Roller-Compacted Concrete: Compacted in place and cured, roller-compacted concrete is a zero-slump ready-mix concrete with the abrasion resistance to withstand high velocity water, making it the material of choice for spillways and other infrastructure subject to high flow conditions. It represents a competitive solution in terms of cost and durability when compared to asphalt.

Self-Consolidating Concrete: Self consolidating concrete has very high flow; therefore, it is self-leveling, eliminating the need for vibration. Due to the superplasticizers used, chemical admixtures that impart very high flow, self-consolidating concrete exhibits very high compaction as a result of its low air content. Consequently, self-consolidating concrete can have very high strengths, exceeding 50 megapascals.

Pervious Concrete: Because of its unique design mix, pervious concrete is a highly porous material that allows water, particularly rainwater, to filter through, reduces flooding and heat concentration by up to 4°C, and helps to prevent skidding on wet roads. This ready-mix concrete is ideally used in parking lots, footpaths, and swimming pool border applications.

Antibacterial Concrete: This type of ready-mix concrete helps to control bacteria growth and is used to help maintain clean environments in structures such as hospitals, laboratories, and farms.

Aggregates

We are one of the world's largest suppliers of aggregates: primarily the crushed stone, sand, and gravel, used in virtually all forms of construction. Our customers use our aggregates for a wide array of applications: as a key component in the construction and maintenance of highways, walkways, parking lots, airport runways, and railways; for drainage, water filtration, purification, and erosion control; as fill material; for sand traps on golf courses, beaches, playing field surfaces, horse racing tracks, and related applications; and to build bridges, homes, and schools.

Aggregates are obtained from land-based sources such as sand and gravel pits and rock quarries or by dredging marine deposits.

Hard Rock Production. Rock quarries usually operate for at least 30 years and are developed in distinct benches or steps. A controlled explosion is normally used to release the rock from the working face. It is then transported by truck or conveyor to a crusher to go through a series of crushing and screening stages to produce a range of final sizes to suit customers' needs. Dry stone is delivered by road, rail or water from the quarry.

Sand and Gravel Production. Sand and gravel quarries are much shallower than rock quarries and are usually worked and restored in progressive phases. Water can either be pumped out of the quarries allowing them to be worked dry or they can be operated as lakes with extraction below water. A conveyor draws the raw material into the processing plant where it is washed to remove unwanted clay and to separate sand. Sand separated during processing is dewatered and stockpiled. Gravel then passes over a series of screens that sieve the material into different sizes. Processing separates the gravel into stockpiles in a range of sizes for delivery.

Marine Aggregate Production. A significant proportion of the demand for aggregates is satisfied from rivers, lakes, and seabeds. Marine resources are increasingly important to the sustainable growth of the building materials industry. Marine aggregates also play an important role in replenishing beaches and protecting coastlines from erosion. At sea, satellite navigation is used to position a vessel precisely within its licensed dredging area. Vessels trail a pipe along the seabed and use powerful suction pumps to draw sand and gravel into the cargo hold. Dredged material is discharged at wharves, where it is processed, screened and washed for delivery.

Aggregates are an indispensable ingredient in ready-mix concrete, asphalt, and mortar. Accounting for 60% to 75% of ready-mix concrete's volume, aggregates strongly influence concrete's freshly mixed and hardened properties. Aggregates not only increase concrete's strength, but also can make the mix more compact, enabling applications such as weatherproofing and heat retention. They can further contribute to concrete's aesthetic qualities. For example, sand gives surface treatments their brightness.

The types of aggregates we offer our clients include, but are not limited to:

Crushed Stone and Manufactured Sand: These products are obtained by mining rock and breaking it down to a preferred size. In the case of manufactured sand, the product is obtained by crushing rock to the selected shape or texture, ensuring product and project specifications are met. Sources of crushed stone can be igneous, sedimentary, or metamorphic.

Gravel: Gravel deposits are produced through a natural process of weathering and erosion. It can be used for roads, for concrete manufacturing, or for decorative purposes.

Sand: Sand occurs naturally and is composed of fine rock material and mineral particles. Its composition is variable depending on the source. It can be used for roads, concrete manufacturing, or sanitation.

Recycled Concrete: Recycled concrete is created by breaking, removing, and crushing existing concrete to a preferred size. It is commonly used as a base layer for other construction materials because it compacts to form a firm surface.

Urbanization Solutions

Urbanization Solutions is one of our four core businesses, a portfolio of related businesses that complements our value offering of products and solutions, looking to connect with the broader metropolis ecosystem, address urbanization challenges and provide means to all stakeholders in the construction value chain to enable sustainable urbanization by focusing on four key verticals:

Performance Materials.

Performance materials are used to modify or enhance the properties and usability of building materials and construction systems. Performance materials include admixtures, mortars & special mortars (e.g., tiling adhesives, renders & plasters, concrete repair, waterproofing) and asphalt. The following are examples of performance materials we offer to our customers:

- Admixtures ISOMILL 4000 Series grinding aids and cement enhancers provide significant carbon reduction, higher process efficiency and enhanced strength.
- Admixtures ISOFLOW 6000 Series high-performance superplasticizer technology for ready-mixed concrete producers allows water and carbon reduction of up to 50% in concrete mix designs.
- CEMEX dry silo mortar provides an innovative and efficient solution to mortar delivery, particularly to larger sites. There is no need for mixing areas on site as all the material is contained in the silo. The guaranteed color, consistency and controlled workability are backed up by CEMEX's excellent training and support. The dedicated CEMEX dry silo team can support with silo placement and specification.

- VIALOW is our low temperature asphalt, that allows the re-opening of a jobsite more quickly after completion of road works, as the asphalt reaches appropriate trafficking temperatures faster than conventional hot mix asphalt. VIALOW reduced carbon asphalt includes the option to offset residual CO₂ to provide a CarbonNeutral product, in accordance with The CarbonNeutral Protocol.

Industrialized Construction.

We manufacture finished building elements that are easy and safe to assemble and install on-site. Industrialized construction products range from precast components to complete structures, 2D panels, 3D modules, 3D structures, etc. The following are examples of industrialized construction products we offer to our customers:

- Precast elements for mobility and urban infrastructure: rail sleepers, box culverts, bridges, drainage basins, barriers and parking curbs.
- High-end architectural concrete products with a range of styles for different building and urban landscaping projects: fully serviced façade panels, standard and architectural blocks, block paving and decorative paving solutions.
- Social infrastructure solutions for rapid response: like the fully equipped COVID-19 hospital sections.

Circularity.

We provide services that improve the circularity of the construction value chain by focusing on three waste streams:

- Municipal & Industrial Waste which is waste generated by households, commerce, and industrial activities. An example is our separation facilities in Mexico City that process around 25% of all the municipal waste the city generates, recovering from the waste stream what is recyclable and transforming most of the remaining waste to alternative fuels. Transforming municipal and industrial waste to alternative fuels replaces part of the fossil fuels used in our cement kilns, increasing the sustainability attributes of our products and reducing the carbon footprint in our processes.
- Construction, Demolition & Excavation Waste, which is waste generated specifically from the built environment. All debris, returned concrete, bricks, shingles, wood, excavation soil, etc., that can be reprocessed and reintegrated into the economy as raw materials. As an example, the CEMEX Circularity Center in Gennevilliers, France, is a multiservice dock located in an industrial harbor in Paris offering a wide range of circular economy services to the construction industry. Gennevilliers receives a variety of materials, including construction waste, excavated material and inert soil, which it sorts, processes, and transforms into recycled aggregates or organic material used to restore quarries.
- Alternative Raw Materials Waste, which is waste generated from other industries and by-products that can help CEMEX preserve natural resources and reduce our CO₂ footprint. Materials such as slag, fly ashes, pozzolans, calcined clays and other decarbonated raw materials can be used as substitutes for limestone and clinker in our production processes.

Related Services.

We provide complementary services to offer integrated solutions through logistics and transportation, retail, pavement services and design and engineering, among others, that add value along the construction value chain. These services enable CEMEX to provide value for our customers by offering building solutions for their construction needs. The following are examples of related services we offer to our customers:

- Logistics services provide multi-faceted transportation solutions like our New Line Transport business that serves the pneumatic tank, aggregate dump and flatbed markets promoting safety and providing a superior customer service through a centralized customer care dispatch center.

- Retail services like *ConstruramaSupply*[®], an eCommerce platform for construction materials such as steel, hardware, plumbing, finishes and electrical material that brings the CEMEX product offer closer to the Construrama retail network.
- Pavement services specialize in surface schemes from major highways and airfield surfacing to business parks, car parks, storage and materials handling depots where we offer a comprehensive range of paving solutions to both private and public sector clients.
- Design and engineering services like *Construhub*, a Building Information Modeling (“BIM”) platform based on BIM methodology that reduces risks, improves quality and facilitates the delivery of projects on time and within budget for our clients.

Services

We continuously communicate and interact with our customers to identify and implement effective ways to meet their toughest challenges. We recognize that customer loyalty happens by design, not by chance. To better serve our customers, we not only need to have a clear understanding of what they need, but also the means and passion to fulfill those needs.

In each market and locality in which we operate, we do our best to provide our customers with the most compelling integrated building solutions. For example, to solve infrastructure needs in major cities, we not only provide ready-mix concrete, but for some projects we also design the project, define the best technical solution, offer different financial schemes and execute the project in collaboration with local builders. Similarly, we work alongside our neighbors in small, less-affluent communities to help them solve their housing needs and pave their streets and sidewalks.

The following are examples of the different services offered to our customers throughout our operations, which may vary from location to location:

Enhanced Loading Experience: This service offers our customers flexibility and efficiency by applying technologies and solutions in the loading process in order to, among other results, minimize loading time and improve truck efficiency. These technologies and solutions include: ATM-like Bulk-Cement, Fast lanes, Real time loading status, License Plate Recognition (LPR) and Radio-Frequency Identification (RIFD).

Customer-oriented Educational and Training Services: Webinars continue to be an effective channel to engage with existing and potential customers. In 2022, CEMEX hosted over 160 webinars on several topics including CEMEX Go trainings about new functionalities, new product releases, *Vertua* and sustainability.

Online Services: During 2022, we continued working on our customer-centricity and global business strategy, enhancing our customers’ experience while using CEMEX Go. We have successfully deployed the CEMEX Go digital platform by making it available in 21 countries and having 50% of our total recurring cement, ready-mix concrete, and aggregates customers conducting more than half of their purchases, or more than 60% of our global sales, through the platform.

We released the Online Connection, enabled for Cement and Ready Mix, allowing our customers to receive an immediate response for a delivery request according to resources and capacity available for dispatch, allowing orders to be confirmed automatically and in real time since 2021. In 2022, we connected the Ready-Mix Go application to our online capabilities, so that users can place, view, schedule, confirm, and manage orders, as well as to track deliveries, configure notifications, and view order history from mobile and web devices. Moreover, we have been encouraging the digitalization of internal and customer processes to minimize the use of paper. Today, around 74% of our invoices are delivered in a fully digital manner, putting us on track to achieving our global paperless goal.

Service Centers: Our Service Centers globally play a key role in providing a superior customer experience to our customers. As part of our Service Delivery Model Transformation, we are evolving our Contact Centers to become Next Generation Service Centers, enabled by best-in-class processes and state of the art technology. Our customers will live a seamless omnichannel experience for all important touchpoints, from inquiring about product and services to placing and following up on orders and providing feedback for improvement.

Technical Support: We aim to provide our customers with top-level technical assistance through our state-of-the-art equipment and our highly professional, well-trained technical services staff. We look to take extra efforts and provide value above and beyond fulfilling our customers' need for cement, aggregates, ready-mix concrete, and related products such as mortar.

These services do not produce revenues on a stand-alone basis but are part of our comprehensive value proposition.

Our Strategic Priorities

CEMEX has a general vision and value creation model comprised of the following six elements: (i) purpose, (ii) mission, (iii) values, (iv) strategic priorities, (v) operating model and (vi) stakeholders.

PURPOSE. We expect to build a better future for, among others, our employees, our customers, our shareholders, our investors, our suppliers and the communities where we live and work.

MISSION. We intend to create sustainable value by providing industry-leading products and solutions to satisfy the construction needs of our customers around the world.

VALUES. We intend to: (i) protect the safety of all our employees by being accountable to each other for our actions and behaviors and trying to be an industry leader by example; (ii) focus on our customers by aligning ourselves closely with their business and their needs and, following through with our commitments, resolving problems quickly and making it easy to do business with us; (iii) pursue excellence in all aspects of our business and interactions with customers by challenging ourselves to constantly improve and build upon our strong reputation around the world for quality and reliability; (iv) work as one CEMEX by leveraging our collective strength and global knowledge to share best practices, replicate good ideas and collaborate across boundaries; and (v) act with integrity by remaining honest and transparent in all our interactions, complying with our code of ethics and laws and regulations, and caring for our people, communities and natural resources.

STRATEGIC PRIORITIES. To achieve our mission, our strategy is to create value by building and managing a global portfolio of integrated cement, ready-mix concrete, aggregates and Urbanization Solutions businesses. Our five strategic priorities, in no particular order, are (i) Health and Safety, (ii) Customer Centricity, (iii) Innovation, (iv) Sustainability and (v) Operating EBITDA Growth.

Implemented in 2018, our action plan "A Stronger CEMEX," was a transformational plan designed to fortify CEMEX's position as a leading global heavy building materials company, accelerate our path to investment grade, enhance our total shareholder return and generate long-term value for our stakeholders. Under said plan, CEMEX: (i) divested \$1.6 billion in assets by the end of 2020; (ii) achieved recurring operational improvements of \$230 million by 2020; and (iii) accelerated our path to investment grade by further deleveraging CEMEX by reducing our debt by \$3.5 billion by the end of 2020.

In 2020, we implemented the "One CEMEX" commercial model to improve our customers' experience through customer centricity, aiming to provide a superior omnichannel experience, everywhere and every time. It was supported by digital platforms and the importance of minimizing financial risk, with an aim to maintain ample liquidity. In 2020, we developed "Operation Resilience," our medium-term strategy for the following three years, a decisive action plan designed to maximize shareholder value and reposition us for higher Operating EBITDA growth on a risk-adjusted basis. "Operation Resilience" was not only about deleveraging but also about building a lower risk and faster growing business. Initially, "Operation Resilience" was aimed at (i) growing the profitability of our business to achieve a consolidated Operating EBITDA margin equal to or greater than 20% by 2023, considering our then current portfolio, through cost reduction measures and other commercial and operational initiatives; (ii) optimizing our portfolio for Operating EBITDA growth through the execution of strategic divestments and reinvestments, thereby constructing a portfolio more weighted towards the United States and Europe, after which we expect we will be a heavy building materials company with a large part of its footprint represented by the United States, Europe and Mexico, focusing on vertically integrated positions near growing metropolises and developing Urbanization Solutions as one of our four core businesses; (iii) de-risking our capital structure, reducing our cost of funding and ultimately achieving investment grade capital structure by targeting additional net debt paydowns and a net leverage target equal to or below 3.0x for December 2023, among other initiatives, including extending our debt maturity profile, minimizing our cost of funding and raising funds in local currency to better align our Operating EBITDA and debt; and (iv) leveraging sustainability and digital platforms as a competitive advantage by moving forward on achieving our 2030 target to reduce our cement CO₂ emissions by 35% compared to our 1990 baseline and our ambition to deliver net-zero CO₂ concrete by 2050.

During 2022, we made progress on our “Operation Resilience” targets mainly by achieving (i) a consolidated Operating EBITDA margin of 17.2%, despite rising inflation; (ii) \$600 million of closed asset sales, which includes our divestments in Costa Rica and El Salvador, as well as a controlling interest in Neoris, and additional fixed assets; (iii) growth investments of \$474 million on strategic capital expenditures during 2022, which include bolt-on acquisitions in different geographies like Germany, Spain and Texas, leading to a solid 21% growth in our Urbanization Solutions core business; (iv) net leverage of 2.84x, reaching two years in a row with a leverage ratio below our initial objective, with a total debt plus other financial obligations reduction of \$332 million during 2022; and (v) as of December 31, 2021, a reduction in CO₂ emissions of 26% compared to our 1990 baseline. As a result of the progress made, in addition to our previously existing “Operation Resilience” targets not yet achieved, we now look, as part of our strategic priorities, to maintain our investment grade capital structure and ultimately regain an investment grade rating, and also replaced our previously existing 2030 target to reduce our cement CO₂ emissions by 35% compared to our 1990 baseline with a more ambitious 47% reduction goal.

During 2022, we repaid or refinanced \$1.9 billion of debt, and by applying free cash flow and proceeds from asset sales, we reduced consolidated net debt, as defined in the 2021 Credit Agreement, by \$300 million. Also during 2022, we reduced interest expenses by \$45 million, or 8% compared to 2021. Most importantly, we increased the leverage ratio, as calculated under the 2021 Credit Agreement, by 0.11x to 2.84x.

In addition, to further fortify our balance sheet, we continue to be focused mainly on the following three initiatives, while at all times remaining committed to building a better world and helping alleviate some of the biggest challenges communities are facing today: (i) growing our Operating EBITDA through further cost-reduction efforts, operating efficiencies, customer-centric commercial strategies across all our core businesses and strategic growth investments; (ii) maximizing our free cash flow, which is expected to be used mainly for debt reduction and our bolt-on investments; and (iii) continuing to execute selective accretive divestments by selling what we believe are non-essential assets, which could allow us to free up more free cash flow.

Health and Safety

Health and Safety (“H&S”) remains our top value and priority. We are working towards developing a culture within which everyone in our organization embraces H&S. We believe that the health and safety of our employees, contractors and the people we interact with in our local communities on a day-to-day basis is of the utmost importance.

To help us meet our goals, four core principles guide our decisions and actions: (i) nothing comes before the health and safety of our employees, contractors, and communities; (ii) making health and safety a moral responsibility per employee by looking after ourselves and each other; (iii) looking to create safe workplaces; and (iv) maintaining accountability for health and safety practices.

Our Global Health and Safety Policy is the cornerstone of our Health and Safety Management System (HSMS) and sets out clear expectations for our leaders and workforce to carry out their activities in a safe manner and to care for the well-being of our employees, contractors and other people with whom we interact. The HSMS is our main tool to establish performance requirements and goals for our operations by helping us assess potential risks and plan the measures needed to mitigate them in a coordinated manner. The HSMS is designed to empower our leaders to implement a successful health and safety strategy across our operations and guides us on how to adequately allocate resources to training programs for our employees. Furthermore, our line managers utilize our HSMS on an ongoing basis to make an annual review of further improvement opportunities and to formulate annual Health and Safety Improvement Plans.

We are constantly working towards our ultimate target of zero injuries worldwide, evidenced by our Zero4Life objective. In 2021, we maintained a low employee Lost Time Injuries (“LTI”) frequency rate of 0.5, and we are working toward reducing this rate to 0.2 by the end of 2025. Our employee Total Recordable Injuries (“TRI”) frequency rate remained the same at 2.6. While the number of contractor LTIs increased by four cases in 2021 compared to 2020, contractor TRIs decreased by 0.8% during the same period. In 2022, we continue to work on health-related actions to achieve a reduction in our employee sickness absence rate, which decreased by 9% in 2021.

In 2021, the number of fatal occurrences involving CEMEX employees decreased from three to one; however, the number of fatal occurrences involving contractors increased from four to eight and the number of fatal occurrences involving third parties increased from one to five. Overall, 57% of fatal occurrences involving contractors or third parties occurred away from our premises. We also continued to make progress in most countries as 96% of our operations achieved zero fatalities and LTIs.

Most of the fatalities in 2021 were due to incidents involving moving vehicles. In an effort to eliminate such types of incidents, we continue to focus on specific initiatives ranging from innovative awareness campaigns and safety features to defensive driving training and workshops. In 2021, our operations utilized digital platforms to reinforce road safety with key stakeholders, which allowed us to bolster strong communication while complying with social distancing measures. In 2022, we took a step forward in digitalization to become one of the most advanced fleets in our industry. The digital vehicle safety features we employ include sensors, mobile apps, GPS tracking, camera systems and other types of safety equipment, such as artificial intelligence systems that managers review to give feedback to our drivers to highlight both risky behaviors and good driving performance. We will continue to work hard and drive forward with our initiatives so that our employees and contractors understand the importance of and become integral to our H&S culture.

The following table sets forth our performance indicators with respect to safety by geographic location for the year ended December 31, 2021:

	<u>Mexico</u>	<u>United States</u>	<u>EMEA</u>	<u>SCA&C</u>	<u>Total CEMEX</u>
Total fatalities, employees, contractors and other third parties (#)	7	1	3	3	14
Fatalities employees (#)	0	1	0	0	1
Fatality rate employees ⁽¹⁾	0.0	1.1	0.0	0.0	0.2
Lost-Time injuries (LTI), employees (#)	21	13	12	3	49
Lost-Time injuries (LTI), contractors (#)	16	4	19	4	43
Lost-Time injury (LTI) frequency rate, employees per million hours worked	0.6	0.6	0.6	0.2	0.5

(1) Incidents per 10,000 people in a year.

At CEMEX, training is a key part of our strategy to achieve our Zero4Life commitment. We continuously revise and seek to improve our training programs and strive for all our employees to possess the correct knowledge, skills, and experience to perform their jobs safely.

As part of our training program, executives, line managers, and supervisors must complete our Health and Safety Academy, designed to enhance their leadership skills in relation to our Health and Safety number one value and priority across our organization. The Health and Safety Academy was launched in 2016 with our Foundation Module, which prepares our line managers to lead by example and play a fundamental role in ensuring safety throughout our operations. Launched in 2017, Module 2 enables our line managers to utilize our HSMS tool to help achieve our Zero4Life commitment in their operations. Module 3, deployed in 2018, is designed to enhance the health and safety proficiency of our line managers in key topics.

In 2021, due to restrictions on face-to-face meetings, we strengthened our Health and Safety Academy training to address the new pandemic and epidemics element in our HSMS tool through CEMEX University's self-learning platform. During 2022, following our implementation of Behaviors That Save Lives, we restarted our in-person H&S Academy sessions in Mexico, SCA&C and the USA covering an audience of over 2,000 learners. This effort focused not only on training employees but also on developing new trainers. To support this effort, we enhanced our 360-assessment, which is a crucial element of the Academy, and translated it into nine languages. We expect to deploy the 360-assessment across the regions in which we operate.

In 2022, we launched a new CEMEX Wellbeing Model to serve as a common framework for all our operations worldwide. We expect the model will help us have a unified approach and a solid base to improve our wellbeing offering over the coming years. We have developed a gap analysis tool to assist our operation teams implementing the model. The initiative will be supported by medical professionals from our Global Health Forum of experts. Additionally, we developed a communications campaign to promote our Wellbeing Model focused on Emotional Health, Physical Health, Financial Fitness, and Workforce Experience. All activities included in the CEMEX Wellbeing Model are designed to reduce the prevalence of health risks and encourage employees to live a healthy lifestyle both inside and outside the workplace.

Finally, we started the development of an online course focused on the principles of Visible Felt Leadership, which is the development of a constant, consistent and positive leadership approach towards Health and Safety in everything a manager does, starting with those at the very top of an organization. This learning experience will be deployed globally as an introductory module of the H&S Academy, and as a tool to develop senior leadership with a focus on health and safety issues.

As part of our Contractor Health and Safety Verification Program, in 2022, we reached our goal of evaluating health and safety practices of at least 91% of our company's procurement contractors spend. To achieve this goal, we engaged our operations in different countries and worked closely with our Health and Safety Functional Network made up of national health and safety specialists.

Customer Centricity

CEMEX is dedicated to helping our customers succeed and our efforts are focused on what success means to them. We are passionate about finding new ways to inspire and satisfy them by innovating around their needs to surpass their expectations in every interaction. Through our "One CEMEX" commercial model, we aim to provide our customers with a superior omnichannel experience everywhere and every time, and are creating new opportunities to serve them better. In 2022, we focused on four key efforts:

(1) An Integrated Service Delivery Model

Since 2021, we set on a path to provide our customers with a frictionless, consistent, and personalized omnichannel experience to deliver fast responses to their needs. Our Service Delivery Model aims to leverage cost efficiencies and unleash revenue growth potential, while improving our customers' experience across geographies and within each of our customer segments.

(2) A Robust Voice of The Customer Program

We have been using Bain & Co.'s Net Promoter System® (NPS®) to gather, manage, and act on customer feedback. The Net Promoter Score ("NPS") is a key experience indicator used to measure our customers' loyalty across all of our business units since 2018. In 2022, we maintained an outstanding annual global NPS result of 66, significantly above the Retently 2022 NPS benchmark of 45 for the construction and engineering industry and on track for our 2030 NPS target of 70, which we updated from 60 to 70 in 2021.

This Net Promoter System® allows us to transform our customers' feedback into actionable improvements, leverage enhanced analytics to better understand them, and develop insights to design more targeted, data-based value propositions for them. Since 2021, as part of our Voice of the Customer program, we enabled new means to measure customer satisfaction at a transactional level throughout the entire customer journey and added advanced capabilities such as text analytics, sentiment analysis, and touchpoint correlation analysis.

(3) An Empowered Sales Force

Our employees are at the core of our ability to deliver a superior customer experience and we are committed on empowering them with the right skills, tools and technology to deliver on our customer-centricity promise. LEAP, CEMEX's global sales learning experience, received the Brandon Hall Excellence Bronze Award for the Best Sales Onboarding Program category in 2022, achieved a 91% adoption rate, and earned outstanding satisfaction rates of over 90%. LEAP will continue to evolve into six Leap Masterclasses, fully focused on Sustainable Construction and the skills required to deploy CEMEX's products and solutions and reach the company's goal of achieving net zero CO₂ by 2050.

As part of our customer-centricity practice, we recognize excellence and best practices adopted across our business units that lead to a superior customer experience. In 2022, we celebrated our Company's customer-centric culture and commitment toward our customers at CEMEX's second Customer Experience Day. We will continue working toward delivering such programs that are part of our most valued CEMEX traditions.

(4) CEMEX: A Digitally Driven Company

We view the creation of a digital organization as essential to our customer-centricity and global business strategy. Technological applications we develop are designed to strengthen our competitive advantage by boosting our customers' productivity, positively impacting their bottom line and improving their experience when interacting with CEMEX. Our digital solutions support our customers in seamlessly carrying out their work with promotional content about our Vertua brand to aid our customers in their transition toward more sustainable construction.

To continue with our digital evolution focused on our customers, we expanded Olivia, our artificial intelligence chatbot, into other markets and countries to help our Customer Service Centers provide responses to our customers' most common questions. In 2022, Olivia was introduced in the UK in CEMEX Go, WhatsApp, and "ReadyMix2Go," a Professional Self-Builder's website. We also launched Olivia in certain of our SCA&C countries, including Peru, Guatemala, the Dominican Republic, Panama, Nicaragua, and Puerto Rico, reaching a global presence in twelve geographies.

(4)(a) Leading the Industry's Digital Transformation through CEMEX Go

CEMEX Go enables our customers to build more efficient operations and the use of our online store has grown remarkably since 2017. This innovative digital solution automates order-to-cash workflows, which looks to streamline customers' ability to achieve real-time management, from ordering to tracking to fulfillment. Additionally, CEMEX Go is designed to enhance decision-making capabilities by offering ready access to detailed information and in-depth analytics to make more informed decisions and to save time and money. As of December 31, 2022, more than 53,000 customers across 21 countries, have been onboarded to our CEMEX Go Online Store, and we received approximately 50% of our main product orders and processed 60% of our total global sales through this platform.

We continue to develop next generation functionalities of our CEMEX Go Online Store. Since its release in 2021, we continued expanding the Online Connection in more business lines and more countries, so that orders are confirmed automatically and in real time. In 2022, we also connected the Ready-Mix Go application to our online capabilities so that customers can view, schedule, confirm, and manage their orders in real time, as well as track deliveries, configure notifications, and view order history from mobile and web devices.

Moreover, we have been encouraging the digitalization of internal and customer processes to minimize the use of paper. As of the date of this report, around 73% of our invoices are delivered in a fully digital manner, putting us on track to achieving our global paperless goal.

(4)(b) CEMEX Go Developer Center: New Digital Connections with Our Customers

Our CEMEX Go Developer Center is a platform that allows customers to interact directly with our systems via digital platforms and Application Programming Interfaces ("APIs"). Since 2022, the CEMEX Go Developer Center assists customers from the United States, Mexico, the United Kingdom, Germany, France, Spain, Poland and the Czech Republic creating their orders and receiving real-time status updates in their own management systems of the products they purchased and the services they requested.

(4)(c) CEMEX Go CRMs: The Digital Ally for Customer Relationship Service

CEMEX Go Customer Relationship Manager ("CRM") is present in Mexico, the United States, Colombia, and CEMEX's EMEAA region. CEMEX Go CRM for Sales Management helps commercial teams providing insightful data and saving time in daily planning and managing activities across our global operations by personalizing daily follow-up activities with customers such as the creation of quotes and demand planning. Furthermore, CEMEX Go CRM for Customer Service is consolidating our core technological layer to strengthen our customer service center capabilities through an omnichannel experience.

(4)(d) Buying Construction Materials in the Digital Age

Construrama.com is the e-commerce solution boosting Construrama in Mexico, the largest construction materials distribution network in the country. Today, more than 100,000 online users can purchase from a wide catalog of products and construction materials.

CEMEX Professional and Self Builders (“PSB”) platform offers a full e-commerce experience for self-builder customers through a simple and fast online solution that guides them to select the right concrete products, place orders and pay online. In 2022, we improved the PSB platform user experience and released version 2.0 in the United Kingdom, which we expect to make available in the United States in 2023. As of the date of this report, CEMEX PSB is also available in Mexico and Colombia.

Innovation

Innovation is key to remaining at the forefront of our industry and advance in achieving our strategic goals as a forward-looking company. More importantly, it is one of the key levers in building a sustainable and profitable business in the new green economy.

CEMEX’s Innovation activities occur on two fronts: Open Innovation and Internal Research and Development (“R&D”). Open Innovation initiatives, led by CEMEX Ventures, aim to monitor and identify the next generation of products and services, invest in high potential opportunities/technological breakthroughs, seek strategic collaborations accelerate technological developments with high potential and create an ecosystem of collaboration with partners. Internal innovation is led by our Global R&D team in Switzerland, and our experts work in close collaboration with CEMEX Ventures to harness R&D knowledge and experience and bring value to the Open Innovation process, as well as develop novel and alternative paths to address climate change and sustainable construction needs. A key element of CEMEX’s R&D is the engagement and close collaboration with key partners and stakeholders, whether that is start-ups, universities, companies or external and internal customers.

Our Global R&D team’s technological agenda is focused on addressing climate change to support CEMEX’s *Future in Action* climate action program, which is built on four pillars: (i) developing sustainable products and solutions; (ii) decarbonizing CEMEX’s operations; (iii) innovations and partnerships; and (iv) promoting a green economy. As a result of these efforts, in 2021 we developed a range of low embodied CO₂ cement and ready-mix products under the global brand *Vertua*, including Vertua Lower Carbon, a range of products in our portfolio that have a lower embodied CO₂ compared to a corresponding reference. For cement, the reference is 822 net kg CO₂/ton of gray cement, which is the GGCA default value for gray clinker emissions, based on the world weighted average for clinker net direct emissions. For ready-mix concrete, the reference is a concrete composed of 100% Ordinary Portland Cement (OPC) fulfilling the average strength of the most standard structural concrete, which is 350 kg CO₂/m³. On the sustainable products and solutions front, sales of Vertua Lower Carbon products have reached 40% for cement and 30% for ready-mix concrete in 2022. Also in 2022, the scope of *Vertua* has been extended beyond Lower Carbon, and currently includes the following attributes in its value proposition: energy efficiency, design optimization, water conservation, and recycled materials. Consequently, CEMEX is well positioned to offer a portfolio of products and solutions addressing as well as promoting sustainable construction practices. As of the date of this report, CEMEX estimates that, during 2022, *Vertua*-branded cement represented 41% of total cement volumes and *Vertua*-branded ready-mix represented 33% of total ready-mix volumes, a 14.8% and 16.1% year-over-year increase, respectively.

Our focus goes beyond products. We establish meaningful targets to de-carbonize our operations and drive our CO₂ footprint of concrete to net zero. Some innovations in our pipeline include novel approaches to reduce clinker factor, value creation from CO₂, CO₂ utilization in mineralization (carbonation) of materials (e.g., recycle concrete), technologies to repurpose waste materials to enable their reuse and recycling, and the exploration of renewable energy sources to replace fossil fuels. In 2022, one of our projects provided an example of value creation from CO₂ by demonstrating that it is possible to use CO₂ directly as is from the flue gases to produce carbon nano materials, which in turn have several high-value uses in the automotive, electronic, and medical fields, among others. As we previously announced, CEMEX is working on using Concentrated Solar Thermal (CST) energy to entirely drive the clinker production process with renewable energy. Recently, we produced the first-ever solar clinker. Furthermore, we are

developing processes that can micronize materials that are potential clinker substitutes and we are finding that due to increased reactivity of these materials, we can expect to further decrease the clinker factor in our cement products. Carbon Capture Utilization and Storage (CCUS) is another central focus of our research. We expect that approximately 30% of our total CO₂ emissions may one day be reduced through CCUS. CCUS is an important part to achieve our net zero concrete strategy by 2050. We are diligently working to assess different technologies and pilot the most promising ones, always taking a targeted approach. CEMEX is also competing for public funds. At least 50% of such publicly funded projects related to CCUS. Other publicly funded projects include electrification, renewable energy, waste heat recovery, circularity, and sustainable products. Additionally, through Global R&D, CEMEX is actively participating in the Global Cement & Concrete Association's ("GCCA") innovation network Innovandi to develop pre-competitive knowledge on these very same key technologies for our industry. Collaboration among companies from different sectors of the industry is fundamental to address the challenge of climate change in unison. We have played an active role in GCCA's Innovandi Open Innovation Challenge, which has resulted in the first six consortia between start-ups and GCCA member companies, which are formal working partnerships supported by the GCCA to accelerate groundbreaking technologies addressing CCUS. Innovation at CEMEX is taking place on a myriad of fronts, processes, and initiatives that harness the most advanced knowledge and experience to support CEMEX in achieving its strategic goals.

During 2022, we have been very active in the integration of building information modeling technology into our interaction with customers, which provides our customers with tools that allow them to visualize the impact of our products on their projects as well as the potential time, energy, and CO₂ savings from incorporating our technologies and construction solutions. By providing superior and sustainable products, solutions and services, we aim to grow from being a product-selling company to a comprehensive solutions provider.

To the best of our knowledge, as the only global building materials company that develops and manufactures its own chemical admixtures for cement, ready-mix concrete, and aggregates, we can design and develop novel, tailor-made product technologies with our proprietary chemicals. An increasing number of admixtures are being developed to enhance the performance and sustainable characteristics of our core products and solutions, such as increasing our cement strength and helping concrete to harden more rapidly, improve its flow, develop its self-curing properties and water repellency, and enable the recycling of returned concrete into aggregates. But beyond specific products or solutions, our value proposition is designed around a "Palette of Technologies" from which we can draw up new solutions based on each project's specific and unique requirements. We expect our Urbanization Solutions core business to be well positioned to develop and grow in the performance materials market, and be competitive due to the growing range of admixture products. An important development from CEMEX's admixtures R&D efforts has been the development of the D.fab admixture family for the 3D Printing of ready-mix concrete—a true first. With CEMEX's D.fab technology it is possible to adopt locally sourced materials, instead of bagged and very specific as well as highly expensive mortar products, to produce actual concrete for 3D printing construction at one-sixth the price of mortars. CEMEX and its 3D Printing partner COBOD, manufacturers of multifunctional construction robots based on 3D printing technology, have seen a very important adoption of the D.fab technology in 2022: 85% of the projects printed by COBOD.

Our Global R&D team supported the design, creation and launch of our new value-added aggregates brand, Neogem. These products are specialized high-quality aggregates, whose intrinsic properties are designed to meet the essential needs of five market sectors—Agricultural, Environmental, Industrial, Landscaping and Sports. Neogem covers an extensive range of premium minerals that can add value to our customers' projects through particular functional or aesthetic features. Neogem products are innovative, carefully selected and tailor-made solutions designed to go beyond commonly known building materials. In 2023, we plan to continue the development of the Neogem brand.

Technologies developed by our Global R&D team are protected by more than 45 international patent families and over 70 trade secrets covering new types of cement, cementitious materials, concrete mix designs, admixtures formulations, construction systems and advanced manufacturing processes.

In addition, we have more than 40 core strategic trademarked software products, developed to enable new specific capabilities in CEMEX's Digital Commercial Model, which are protected by copyrights that primarily cover Online Stores and Order to Fulfillment in our cement, ready-mix and aggregates businesses. This software includes proprietary developments in machine learning and vectorized algorithms to reduce response time, reduce costs and honor commitments made with customers, providing CEMEX with cutting edge competitive advantages.

Fostering Innovation and Enabling New Business Opportunities. Since its launch in 2017, our open innovation and corporate venture capital unit, CEMEX Ventures, continues to engage with startups, entrepreneurs, universities, and other stakeholders to shape the construction ecosystem of tomorrow by tackling our industry's toughest challenges.

Leveraging our knowledge of the industry and CEMEX's leading edge technologies and platforms, CEMEX Ventures develops collaboration opportunities and targets innovating partnerships and investments in the following four target areas connected to the execution of our strategic priorities, which we further subdivide as set forth below:

- Green Construction – CO₂ capture, utilization & storage; sustainable materials; circular economy; waste management & recycling; and new energy sources & solutions.
- Construction Supply Chain – Materials, resourced procurement and marketplaces; logistic tools & materials tracking; fleet management & dispatching; last mile & delivery marketplaces; inventory management & on-site handling.
- Enhanced Productivity – Project design, specification and budgeting; planning & scheduling; project monitoring & control; document management; H&S compliance; project quality; and asset management & maintenance.
- Construction's Future is Now – Advanced building materials; 3D printing; industrialized construction (offsite, modular and precast); robotics & machine assisted applications; and smart cities & buildings.

Jointly with the CEMEX Global R&D and other functions, CEMEX Ventures promotes the expansion of our open innovation ecosystem in search of opportunities in new construction trends and technologies, including construction materials, decarbonization and processes evolution.

CEMEX Ventures' main role is to look for strategic partnerships and investment opportunities that go beyond our core businesses. It also aims to identify and assess emerging technologies to bring CEMEX new ideas and perceptions of the construction ecosystem. To this end, CEMEX Ventures allocates resources to search, incubate, and deploy innovative construction-related opportunities and solutions.

As of December 2022, CEMEX Ventures has invested in 21 startups headquartered in nine countries and focused on developing the aforementioned target areas within the construction industry. During 2022, CEMEX Ventures invested in three new startups and six follow-on investments in its portfolio companies. Additionally, CEMEX Ventures held its 2022 Construction Startup Competition with other top industry partners, seeking entrepreneurs and startups to drive innovation in the construction industry. Almost 500 startups participated, closing the event with 8 winners (two in each of the four target areas).

A significant contribution of CEMEX Ventures has been the establishment of strategic collaborations with external partners to contribute to CEMEX's strategic goals in Climate Action, Digitalization and Urbanization Solutions. We have closed several agreements in collaboration with the relevant CEMEX departments. Some examples are: 1) the evaluation of an offtake agreement to sell 450,000 tons of CO₂ to be converted into sustainable fuels (e-methanol), 2) cooperation in the development and large-scale deployment of electrification technology for high-temperature heating in production sites of CEMEX for low-CO₂ clinker and cement production; 3) processing of waste (refuse-derived fuel) for the production of syngas as an energy source for our cement operations; and 4) introduction of the first 3D printer for concrete in Mexico.

In 2019 CEMEX Ventures launched the "Smart Innovation" platform, aiming to bolster internal innovation at CEMEX. A vehicle to foster innovation at all levels of the organization, the Smart Innovation platform seeks to challenge the status quo, promote a culture of innovation within CEMEX and facilitate the execution of ideas. As of the date of this report, the Smart Innovation platform has more than 170 projects in the experimentation phase which we expect to have a direct impact on CEMEX and the construction industry.

This platform, has enhanced the portfolio management process within the organization, ensuring initiatives are correctly managed, resources are assigned to experiment and scale up innovative solutions.

In addition, the CEMEX Ventures Leaplabor acceleration program was launched in the 2nd semester of 2022. A fixed term collaboration scheme with early-stage startups aiming to catalyze their growth and boost innovation, by timely accessing promising solutions that can generate strategic value and business opportunities. In its first cohort, Leaplabor launched pilots with five startups in six CEMEX operations (Spain, Mexico, USA, Israel, the United Kingdom and Colombia) testing different technologies like energy harvesting solutions, machine learning and computer vision applications for Health and Safety matters, and digital solutions for concrete monitoring, production optimization and fleet maintenance. The program is also designed to expose and connect a key group of CEMEX subject matter experts to CEMEX Ventures open innovation platform and the wider entrepreneurial ecosystem.

Sustainability

Our sustainability efforts begin with CEMEX, S.A.B. de C.V.'s board of directors and are then facilitated across our entire organization. CEMEX, S.A.B. de C.V.'s Sustainability Committee is comprised of four members of CEMEX, S.A.B. de C.V.'s Board of Directors. The Sustainability Committee reports directly to CEMEX, S.A.B. de C.V.'s Board of Directors. The Sustainability Committee is supported by our Corporate Sustainability function, which reports to the Executive Vice President of Sustainability, Commercial and Operations Development, who is also a member of our senior management. To help embed sustainability into our entire business strategy, we have coordinators representing each geographical region where we operate. In parallel, our Global Sustainability Functional Network works to implement our core sustainability initiatives across all our operating regions and business lines. On March 24, 2022, the members of CEMEX, S.A.B. de C.V.'s Sustainability Committee were elected at CEMEX, S.A.B. de C.V.'s general ordinary shareholders' meeting.

Our Climate Action Strategy. In 2020, we announced that we would move ahead with our Climate Action Strategy and continue advancing towards our vision of a carbon-neutral economy. At the time, we defined a 2030 target of a 35% reduction of net CO₂ emissions per ton of cementitious product compared with our 1990 baseline, established our ambition to deliver net-zero CO₂ concrete globally to all our customers by 2050 and developed a detailed CO₂ roadmap for each of our manufacturing plants aligned with a 2°C scenario.

In 2021, we announced our more ambitious Future in Action climate action program focused on developing low-carbon products, solutions and processes while increasing sustainability awareness and promoting a green economy. Under Future in Action, we are accelerating our short-term effort to reach our climate goals; our intermediate goals are to (i) achieve a 35% reduction of CO₂ emissions in cement compared to our 1990 baseline, increase our use of alternative fuels to 43% of our total fuel mix, reduce our clinker factor to less than 74% and reach approximately 40% in clean electricity consumption, all by 2025; and (ii) achieve a 35% reduction of CO₂ emissions in cement compared to our 1990 baseline, achieve a 35% reduction of CO₂ content in concrete compared to our 1990 baseline, increase our use of alternative fuels to more than 50% of our total fuel mix, reduce our clinker factor to 71% and reach 55% in clean electricity consumption, all by 2030.

As of the end of 2021, we reduced our direct CO₂ emissions to 591 kg CO₂ per ton of cementitious product, which represents a 26.2% reduction compared to our 1990 baseline and is in line with how our industry measures progress on reducing net CO₂ emissions. As a result of our performance, we have set more ambitious CO₂ emissions reduction targets: (i) achieve a 47% reduction of CO₂ emissions in cement as compared to our 1990 baseline, (ii) achieve a 41% reduction of CO₂ content in concrete as compared to our 1990 baseline, (iii) increase our use of alternative fuels to more than 55% of our total fuel mix, (iv) reduce our clinker factor to 68%, and (v) reach 65% in clean electricity consumption, all by 2030. Also, in 2022, we validated our 2050 net-zero CO₂ target and new 2030 decarbonization goals under the Science-Based Targets initiative's (SBTi) 1.5°C Scenario methodology, becoming one of the first companies in the industry to do so. Most importantly, these goals should keep us on the right path to achieving our expected objective of net-zero emissions across the company by 2050.

Our 2030 goals and commitments are aligned and have been validated by the SBTi according to the 1.5°C scenario. To achieve our 2030 goals, we have updated our detailed CO₂ roadmap for each of our manufacturing plants to accelerate the rollout of proven technologies worldwide. Our roadmap is mainly based on the following CO₂ reduction levers: (i) accelerating the use of alternative fuels with high biomass content, (ii) optimizing thermal efficiency in our cement kilns, (iii) increasing the use of decarbonated raw materials in clinker, (iv) using novel clinkers such as low-temperature clinker and low CO₂ clinker, (v) reducing clinker factor through blended cements and (vi) maximizing our clean electricity consumption. Additionally, during 2022, our targets for scope 2 and 3 emissions were validated by SBTi. We are currently working on our transport roadmap to reduce our transport-related emissions. Our roadmap, including our direct (Scope 1) greenhouse gas emissions and indirect electricity (Scope 2) emissions, has been validated by Carbon Trust, an internationally recognized consulting company that provides a rigorous third-party assessment of carbon reduction plans.

As of the date of this report, CEMEX estimates that 11% of our clinker production is done at net CO₂ emission levels below 430 kgs per ton of cementitious product, 11% of our plants run at alternative fuel rates of 70% or above, 17% of our plants have a clinker factor below 65%, and 43% of our consolidated clinker production and 100% of European clinker production uses hydrogen injection technology.

The technology for some of the main CO₂ reduction levers on which our path to achieve our 2050 ambition will be based is still in the early stages of development, setting an open path for innovation that requires continuous work in our Research and Development Center, new investments by CEMEX Ventures, the formation of strategic partnerships, and cross-industry collaboration. Nevertheless, we anticipate that the main levers that will lead us towards our 2050 ambition will be: (i) our 2030 CO₂ reduction cement levers, (ii) carbon capture, utilization and storage, (iii) increasing clean electricity and energy efficiency, (iv) low-carbon transport, (v) extending circular economy principles, (vi) new concrete technologies, (vii) reforestation and carbon removal and (viii) concrete re-carbonation.

Improving Quality of Life and Well-being. As a company that looks to make a progressive positive impact through its innovative services and solutions, our ability to operate as a responsible business is fundamental to our business model. This enables us to understand stakeholders' material issues, map social impacts, and identify risks and opportunities to create shared value for us and society.

Furthermore, to reinforce our commitment with climate action, we have signed the Business Ambition for 1.5°C commitment led by the We Mean Business Coalition in partnership with the SBTi and the U.N. Global Compact, joined the Race to Zero Campaign of the UNFCCC launched to mobilize net-zero commitments from cities, businesses, and investors ahead of the COP26, joined the Corporate Leaders Group Europe convened by the Cambridge Institute for Sustainability Leadership in support of a climate neutral economy, and are founding members of both the First Movers Coalition launched at COP26 by the World Economic Forum and the U.S. State Department and of the United Nations Global Compact CFO Coalition for the Sustainable Development Goals, which provides a platform to interact with peers, investors, financial institutions, and the United Nations with the aim of attracting more capital towards sustainable development. During 2022, CEMEX had a strong presence at COP27.

Our high impact social strategy directly contributes to our vision of building a better future and aims to create value, understand our stakeholders' expectations by managing our impacts and contribute to the quality of life and well-being of the cities and communities where we operate through four focus areas:

- People – We provide community members with access to education and workplace training that enables inclusive long-term upward mobility.
- Economy – We support organizations and individuals that contribute to boosting local economies by developing skills to foster entrepreneurship, enable a sustainable economy and lay the groundwork for a just transition.
- Structures – We leverage our expertise and quality by building materials to improve the standards for livable housing and basic infrastructure in cities and communities.
- Cities – We contribute to building green spaces and resilient communities, focusing on the natural and built environments.

Although our social projects focus on our core business expertise to create value and well-being, we believe that we are also causing positive impacts on other global challenges. Thus, consistent with our commitment to the United Nations Sustainable Development Goals, we measure our progress and contributions to some of these goals.

Pursuing Excellence in Environmental Management. We believe the pursuit of excellent environmental practices benefits sustainable growth. In addition to CEMEX, S.A.B. de C.V. Board of Directors' Sustainability Committee, our primary environmental executives responsible for each of our operating regions, shares new trends, proposals and best practices to identify, inform, and tackle key environmental management concerns.

We are committed to contributing to climate change mitigation and its consequences. For years, as part of our carbon emissions reduction strategy, we have focused on using low-emission alternatives to traditional fossil fuels, decreasing our clinker factor, promoting clean energy and increasing energy efficiency across our operations. To this end, we have continuously sought to increase our use of low carbon alternative fuels, which represented 29.2% of our total fuel mix in 2021, and generated approximately \$306 million in savings including fossil fuels costs and CO₂ emissions avoided in carbon regulated markets. As of the date of this report, CEMEX estimates that for 2022 we achieved an alternative fuel rate of approximately 35%, representing savings of roughly \$414 million. Additionally, as of the date of this report, CEMEX estimates a clinker factor of roughly 74.3% for 2022, a 1.5% year-over-year increase.

As a result of our efforts, in 2021, we reduced our net CO₂ emissions per ton of cementitious products by 26.2% compared to our 1990 baseline—equivalent to the annual emissions generated by 2.2 million passenger vehicles. As of the date of this report, and for 2022, CEMEX estimates net CO₂ emissions of around 564 kgs per ton of cementitious product, representing decreases of roughly 5%, 9% and 29.5% compared to 2021, 2020 and 1990 levels, respectively. We actively seek to develop new technologies to reduce our carbon footprint. Most notably, as of December 31, 2021, we are participating in approximately 60 disruptive projects in the pipeline across our value chain to assess potential CO₂ emissions reduction solutions as well as carbon capture, utilization and storage technologies. Furthermore, we explore alternatives to traditional clinker and cement chemistry that enable the production of less CO₂-intensive cements.

To complement these technical measures, we participate in several forums and bilateral dialogues with key stakeholders. These activities are designed to disseminate knowledge about potential reduction measures in our sector and to promote a legislative framework that enables us to implement these measures. As an example, we have a long history of contributing our best practices through our work with the Cement Sustainable Initiative (“CSI”). The work done in CSI was transferred as of January 1, 2019 to the Global Cement and Concrete Association (“GCCA”). The GCCA is an initiative of more than 39 major producers that actively promotes the use of concrete as an essential material for construction.

We have the expertise to responsibly source, process, store and recover energy from alternative fuels and we strongly believe that increasing co-processing residues from other sectors in our cement plants will further contribute to overcoming challenges such as climate change, waste management and fossil fuel depletion, while utilizing the principles of a circular economy.

Our key contribution to a circular economy is our transformation of waste streams from other sectors into valuable materials. To reduce most of the waste generated from our processes, we maximize our reuse of clinker kiln dust in our production loop, largely avoiding landfill disposal. To realize the financial and environmental benefits of waste, we monitor, minimize, reuse and recycle our waste, whenever possible.

In 2021, 95% of the waste generated by our production processes was recovered, reused or recycled. The remaining material was sent to disposal sites. Additionally, last year alone, we managed close to 23 million tons of waste in our business, including alternative fuels and raw materials, alternative/secondary aggregates, own recycled material in our main businesses and other waste managed by the company. This is close to 57 times the amount of waste we sent to landfills and equivalent to the waste produced by more than 28 million people in one year. As of the date of this report, CEMEX estimates that, during 2022, we achieved a waste-managed-to-waste-landfilled ratio of 65 times.

CEMEX Environmental Management System (“EMS”). We use EMS to evaluate and facilitate consistent and complete implementation of risk-based environmental management tools across our operations. The EMS consists of key mechanisms for environmental performance enhancement and impact assessment, stakeholder engagement and accident response based on input from a range of environmental and biodiversity specialists.

As of December 31, 2021, 92% of our operations had implemented either the EMS or equivalent programs. As we approach full implementation of our global EMS, our goal is for all of CEMEX’s operational facilities to be 100% compliant with our internal environmental criteria.

The release of nitrogen oxides, sulfur compounds and dust occurs during cement manufacturing. Other emissions, including dioxins, furans, volatile organic compounds and other heavy metals, are released in very small or negligible quantities. To control our stack emissions and help ensure that we remain compliant with local and national regulations, we have steadily expanded emissions monitoring at our manufacturing operations even exceeding regulation requirements in many geographies.

Through our internal EMS and more specifically through our Atmospheric Emissions Global Procedure, we monitor major emissions which assists us with our compliance with local regulation limits. In 2020, we launched a new industry-benchmark online tool that allows operators and management teams to closely analyze major emissions, improve monitoring abilities from kilns with Continuous Emissions Monitoring System (CEMS) installed, and strengthen emissions performance. To further improve upon these efforts, we have updated the minimum performance levels to fulfill annually for major emissions. In addition, we are working on establishing more stringent environmental standards for air emissions that are expected to be based on EU Best Available Techniques.

In 2021, we invested \$103 million in sustainability related projects at our global operations, including projects to monitor and control our air emissions, increase our operations efficiency and mitigate our carbon footprint through alternative fuels and clinker substitution efforts.

Our Environmental Incidents Management. We consistently work to minimize our environmental impact, and we believe we are generally prepared to respond to emergencies that may pose a potential threat to our operations and local communities: (i) we work with our neighbors, law enforcement officials, public agencies, and other stakeholders to develop contingency plans at each of our sites; (ii) we created emergency response teams that are specifically trained to address environmental incidents and hold annual emergency drills; and (iii) we consistently record and report incidents at every level of our business to identify recurring root causes and to share corrective actions.

Our Global Environmental and Social Incident Reporting process enables all our sites to maintain a proactive approach to respond to emergencies that could potentially impact our communities or our operations. The thorough application of this reporting procedure requires a timely registration of environmental and social impact events, identification and analysis of the root causes, and the implementation of corrective and preventive action plans as a first step toward avoiding their occurrence and reducing their severity. In 2021, our total reported incidents decreased by 52%, which is consistent with our permanent efforts for risks monitoring and transparency. There were no category 1 environmental events (major) registered in the year.

Preserving Land, Water and Biodiversity. The preservation of land, biodiversity and water plays a key role in our long-term resource management strategy.

To protect water and enable our business to succeed, we are increasing our water efficiency and minimizing our water waste through the implementation of our Corporate Water Policy. This policy includes standardization of our water measurement based on the water protocol developed in coordination with the International Union for Conservation of Nature. We also have the goal of developing a specific Water Action Plan (“WAP”) comprised of a customized set of response actions to maximize water use efficiency and mitigate specific water risks for each community by adopting recommendations based on the Water Risk Filter tool from the World Wildlife Foundation, for each one of more than 1,500 of our cement, ready-mix concrete and aggregates sites in water- stressed zones. Results indicate that 1% of our operations are in extremely high water-stressed zones and 15% are in high water-stressed zones. In line with our 2030 targets, we plan to develop a specific WAP and follow the implementation roadmap for each of these sites. In 2021, we completed the implementation of WAPs in 100% of the sites located in extremely high water-stressed zones and the first pilot for a site located in high water-stressed zones.

Sustainable Finance. In September 2021, we launched a comprehensive Sustainability-Linked Financing Framework that establishes our guiding principles when issuing new sustainability-linked financing instruments, including public bonds, private placements, loans, derivatives, working capital solutions, and other financing instruments. The Sustainability-Linked Financing Framework includes three sustainability-linked key performance indicators, including net CO₂ emissions per ton of cementitious product, clean electricity consumption and alternative fuels rate. Additionally, Sustainalytics, a leading independent firm that specializes in providing ESG research, ratings, and data to institutional investors and companies, validated the Sustainability-Linked Financing Framework’s alignment with the Sustainability Linked Bond Principles, the International Capital Market Association’s Climate

Transition Finance Handbook, and the Loan Market Association's Sustainability-Linked Loan Principles. Furthermore, on November 8, 2021, we repaid in full all outstanding indebtedness under the 2017 Facilities Agreement. The funds used to repay the 2017 Facilities Agreement were sourced from the 2021 Credit Agreement. The 2021 Credit Agreement is our first borrowing issued under the Sustainability-Linked Financing Framework, which is aligned to the company's Future in Action climate action program and its ultimate vision of a carbon-neutral economy. The borrowings under the Mexican Peso Banorte Agreement and the 2022 EUR Credit Agreement are also issued under the Sustainability-Linked Financing Framework. The annual performance in respect of the three metrics referenced in the Credit Agreements, which are aligned with those provided for in the Sustainability-Linked Financing Framework, may result in an adjustment of the interest rate margin of up to plus or minus five basis points, in line with other sustainability-linked loans to investment grade rated borrowers. Further expanding our commitments to sustainable finance and building a more sustainable world, in June 2022, we launched the Green Financing Framework, which enables CEMEX to issue green financing instruments aligned with the International Capital Market Association ("ICMA") Green Bond Principles and the Loan Market Association Green Loan Principles. Under the Green Financing Framework, CEMEX intends to allocate the net proceeds from the issuances to finance eligible green projects in areas such as CO₂ emissions reduction, clean electricity and energy efficiency, clean transportation, water management, air quality, circular economy, and waste management. Sustainalytics issued a second party opinion confirming that the CEMEX Green Financing Framework is credible and impactful and aligns with the Green Bond Principles 2021, the Green Loan Principles 2021 and the Transition Finance Handbook 2020.

Attracting and Retaining Talent. Our employees are our competitive advantage and the reason for our success. We aim to offer programs, benefits and a work environment that are designed to attract and retain talented employees. Our approach to talent management is founded on three pillars: (i) employ the right people, in the right place, at the right time to perform the right job to achieve our strategy; (ii) enable a high-performing and rewarding culture to deliver sustainable business value in a safe, ethical workplace and (iii) build and develop our workforce capabilities to confront challenges and pursue excellence.

As we transform and look to expand, one of our main objectives is to develop people with the potential to fill key leadership positions, increasing their experience and capabilities with the intention of having them succeed in increasingly challenging roles. Through this process, we make efforts to help our employees meet their career development expectations and prepare them for key roles as they face critical challenges in their professional development. Our succession management process enables us to build a talented pool of leaders with the skills and understanding of our business fundamentals required to continue the successful implementation of our strategy. Through ongoing training and development opportunities, our employees are taught new skills and their expertise is deepened in several critical areas, including H&S, customer-centric capabilities, environmental conservation and awareness, leadership development and stakeholder engagement.

We look to foster a dynamic, high-performance environment where open dialogue is encouraged and rewarded. Apart from competitive compensation, more than 82% of our global workforce receives health and life insurance benefits beyond those required by local law in their respective countries. Approximately 79% of our global workforce receives retirement provision benefits above local requirements and more than 82% of our operations receive additional funds for disability and invalidity coverage beyond what is required by local laws in their respective countries.

In 2017, we introduced CEMEX University, which aims to develop a digital continuous learning ecosystem for our employees and respond to our multi-region, multi-business learning needs. CEMEX University leverages traditional in-person training with new digital learning platforms to embed a growth mindset throughout our organization and fulfill our employees' potential. Today, CEMEX University's learning portfolio comprises of seven Academies and a suite of leadership development programs.

Through our Health & Safety, Cement Operations, Culture & Values, Supply Chain, Commercial, Sustainability and Digital Academies, CEMEX University develops, business capabilities among our people to support CEMEX's strategy. An example of this is our Award-Winning program Leap, which in 2021 and 2022 released a total of thirteen modules and a podcast, to help Sales Advisors better understand successful commercial interactions and our new commercial model. During this time, CEMEX University also introduced a new Sustainability Academy and three new modules for the Operations Academy providing in-depth perspectives of our production and maintenance processes, as well as our strategy to decarbonize our operation. We continue to develop continuous learning pathways on current topics such as cybersecurity and antitrust and, during 2023, we plan to continue expanding our learning portfolio by adding new courses on ethics, inclusive leadership and sustainable construction, among others.

Our Human Rights Policy reflects our support and respect for the protection of internationally proclaimed human rights principles, as expressed in the International Bill of Human Rights and the International Labor Organization’s Declaration on Fundamental Principles and Rights at Work. In addition, it recognizes employees, communities, contractors, and suppliers as main areas of impact and reaffirms our commitment to the promotion of and respect for human rights throughout our worldwide operations, local communities, and supply chain. This includes providing a workplace that is free from harassment and discrimination on the basis of race, gender, national origin, sexual orientation, disability and membership in any political, religious or union organization and, as reaffirmed in our Global Recruitment Policy launched in 2020, offering equal opportunities for training, personal development, individual recognition and promotion on the basis of merit. Employees who believe that there may have been a violation of the principles laid down in our Human Rights Policy can report it through various channels, including local Human Resources departments, Ethics Committees and our secured ETHOS line internet website. Community members, contractors and suppliers are also encouraged to submit a report through the ETHOS line if they believe there may have been a violation of our Human Rights Policy or any other guideline as stated in our Code of Ethics and Business Conduct.

Our four Leadership Development Programs—CONNECT, THRIVE, IGNITE, and Leader-to-Leader—allow us to provide new managers, newly appointed directors, and top-tier executives the foundational knowledge and necessary tools to support a successful transition and development in their roles. In 2022, 364 leaders across all our regions and business units participated in these programs.

In order to comprehensively measure the positive net balance of our employee experience, we build on the Employee Net Promoter Score (“eNPS”) methodology, a straightforward statistic. When asked whether they would recommend CEMEX as a good place to work, our employees’ responses generated an eNPS score of 45 in 2022, higher than the global benchmark score measured by our survey provider and above our recently updated 2030 annual goal of 43 points. We are using this indicator to identify areas for improvement and for structuring regional, local, and team-specific action plans to address employee concerns.

Additionally, our Workforce Experience (WEx) Survey helps us better understand from the perspective of our employees what organizational, digital, physical and interpersonal elements of our company require strengthening or developing so we can provide a consistently positive work experience for our employees worldwide. In 2022, 83% of our employees worldwide participated in this anonymous engagement survey, which yielded many important findings. The survey was 100% digital to promote hygiene protocols. To allow for a faster and consistent follow-up to the insights, we not only digitized much of the survey process but also empowered our “X Force” teams, a select group of employees who lead our coordinated follow-up and implementation of action plans that have been derived from our survey results.

Operating EBITDA Growth

We look to operate in markets where we can add value for our employees, our customers and our shareholders. We intend to focus on those markets that offer long-term profitability and Operating EBITDA growth potential, especially around high growth metropolitan areas, leveraging those assets that are best suited to achieve this. We believe that a geographically diverse portfolio of assets, in markets, regions or cities that we believe offer long-term profitability, provides us with the opportunity for significant value creation through profitable organic growth over the medium-to-long-term. Consequently, we intend to be selective and strategic about where we remain and where we operate. We believe our business portfolio should be particularly focused on high growth metropolitan areas that combine strong fundamentals, ranging from economic growth potential to strong construction investment, population growth, degree of urban development and political stability, all under the basis of sustainable urbanization. By identifying the needs of these markets and metropolises, we expect to be in a better position to offer a more complete value proposition of products and solutions to our clients and citizens of these markets and metropolises.

As of the date of this report, as part of our strategic priorities, we are undertaking actions that are designed to streamline and reposition our portfolio in order to enhance our diversification and achieve higher profitable growth. As such, we expect to rebalance our portfolio by focusing on the markets we believe offer long-term growth potential and retaining those assets that we believe are best suited to grow, offering us long-term profitability. While these actions are being undertaken, we could continue to complement our strategic priorities with organic, bolt-on investments, on a stand-alone basis or with other partners, using a metropolis-centric approach leveraging our related businesses and digital strategy.

We believe that by managing our core operations as one vertically integrated business, we capture a significant portion of the construction value chain and create value for our customers by offering comprehensive building products and solutions. Historically, this strategic focus has enabled us to grow our existing businesses, particularly in high-growth markets and with specialized, high-margin products.

In particular, as outlined in our strategic priorities, we believe that the United States, Europe and Mexico are well-suited for vertically integrated positions near growing metropolises; and, in addition to our traditional cement, aggregated and ready mix concrete core businesses, these metropolises exhibit a need for a value proposition we're well-positioned to deliver by means of our Urbanization Solutions, which has led us to consider it as a key component of our Operating EBITDA Growth strategic priority.

Urbanization Solutions. Urbanization Solutions is one of our four core businesses. It is a business that complements our value offering of products and solutions, looking to connect with the broader city ecosystem. It seeks to address urbanization challenges and provide means to all stakeholders in the construction value chain to enable sustainable urbanization by focusing on four market segments:

- Performance Materials.

They are used to modify or enhance the properties and usability of building materials and construction systems. Performance materials include construction chemicals, building finishes, admixtures and additives, mortars and special mortars, cellular concrete, asphalt, pavement solutions, etc.

- Industrialized Construction.

We manufacture finished building elements that are easy and safe to assemble and install on-site. Products of industrialized construction range from precast components to complete structures, 2D panels, 3D modules, 3D structures, etc.

- Circularity.

Efficient management of resources to improve the circularity of the construction value chain, ranging from reducing and managing waste to its recycling into the construction lifecycle value chain.

- Related Services.

We provide certain services to offer integrated solutions through logistics and transportation, retail, pavement services, and design and engineering, among others, that add value along the construction value chain and complement our offering in Performance Materials, Industrialized Construction and Waste Management, while enabling CEMEX to provide value for our customers by offering building solutions for their construction needs.

OPERATING MODEL. We aim to operate effectively and achieve the greatest possible value by leveraging our knowledge and scale to establish best practices and common practices worldwide. Our operating model consists of: (i) working with global networks to share operative best practices and market our products and solutions; (ii) providing modern support functions and technology to clients and customers; (iii) having clear and effective transactional functions at all levels of our business; and (iv) maintaining efficient governance controls.

STAKEHOLDERS. Our stakeholders include our people, customers, shareholders, investors, suppliers, communities, NGOs, academia, governments, policymakers and business associations.

We add value to our: (i) employees by having plans and other resources that we believe provide a great workplace that helps them grow and build skills, expertise and a strong sense of purpose; (ii) customers by tailoring our offerings to solve their construction needs while making it easy for them to work with us and by providing enhanced performance and reliability; (iii) shareholders and investors by focusing on plans designed to maximize revenue, reduce costs, optimize assets, reduce risk and enforce strong governance; and (iv) communities and suppliers

by serving as an engine of economic growth, building more capable, inclusive and resilient communities, striving to reduce local air, water and waste and conserve biodiversity, encouraging the creation of innovative solutions to reduce costs while promoting sustainable goods and services, and being a reliable client throughout the value chain, adding a trustworthy reputation to the negotiation.

Environment and Biodiversity Partners. We work closely with several partners to protect the environment and biodiversity of the countries in which we operate by engaging in fruitful partnerships with global, national and local organizations.

Knowledge and Innovation Partners. We often leverage the knowledge and expertise of thought partners from varied perspectives such as consulting, research institutions, universities, and technology partners.

These collaborations enable the design, development, curation and delivery of relevant learning experiences aligned with our strategic capabilities and emerging practices.

Shared Value Partners. Through collaboration in responsible business processes, we can achieve better results through the co-creation of value for society. We believe that more than 500 partnerships and strategic alliances worldwide have proven to be a key factor in successfully multiplying our positive impact on society and in the creation of sustainable communities.

These collaborative alliances have made possible joint projects, best practices documentation and pilots of socially innovative solutions throughout different lines of action: resiliency, environment, education, social integration, health, women's economic empowerment in the communities, development of employability capabilities for youth and people in vulnerable situations in the communities, inclusive businesses, affordable housing and volunteering activities.

Business Associations. We actively participate in various business associations at global, regional, and national levels to develop partnerships and promote our products and solutions. Our active involvement in these associations provides us, alongside other companies in our industry, with a platform to advocate for and educate on important topics such as promoting the use of concrete as an essential material for sustainable construction and policies.

Regain our Investment Grade Rating

We remain committed to regaining our investment grade rating, which is one of our top priorities. We believe our strategic priorities should allow us to make progress in reaching this goal, as we expect that we should be able to increase our free cash flow, which would enable us to further reduce our debt, invest in our business and potentially return value to our shareholders.

As a result of implementing our "Operation Resilience" strategy, in June 2021, we reached our investment grade capital structure target of reducing our consolidated leverage ratio (as defined in the then-effective 2017 Facilities Agreement) below 3.0x. During 2022, we achieved a total debt plus other financial obligations reduction of \$332 million.

Our financial strategy is designed to strengthen our capital structure by: (i) reducing refinancing risks, mainly by reducing short-term maturities and extending average life of debt, which reached 5.0 years as of the end of 2022; (ii) lowering our financial costs, using available free cash flow and divestments to reduce our liabilities and/or optimizing our funding sources by looking for opportunities to issue new securities while redeeming other securities with higher costs, as well as managing our interest rate mix between fixed and floating rates; and (iii) maintaining ample liquidity through the revolving credit facility under the 2021 Credit Agreement and access to short-term credit lines. We believe that our debt portfolio currency mix, mainly in Dollars and Euros, together with our financial derivatives strategy, allows us to balance exposures to currency fluctuations in our most important markets while allowing for optimization of our funding costs.

Also, we have been focusing, and expect to continue to focus, on optimizing our operations by looking to grow our market positions in the markets that we believe offer the highest growth potential, and our core businesses and implementing our pricing policies for our products, on strengthening our capital structure and regaining financial flexibility through reducing our debt and cost of debt, on improving cash flow generation and on extending maturities. Our efforts in lowering our interest expense and our effective management of working capital have allowed us to support our free cash flow. As of the date of this report, we plan to continue with these efforts.

We have also introduced a comprehensive pricing strategy for our products that we expect to more fully reflect and capture the high value-creating capability of our products and services. Our strategy focuses on value enhancement, optimizing gains in customer relationships and on generating sufficient returns that would allow us to reinvest in our business. Under this strategy, we are establishing internal procedures and guidelines that are expected to support our approach to pricing our different products and services.

In addition, we plan to maintain and grow our market positions in cement, ready-mix concrete, aggregates and Urbanization Solutions by being one of the most customer-centric companies in the industry. Among other actions, we also expect to implement pricing initiatives for our products and receive compensation through fees for the services we provide that should allow us to improve our overall profits, as well as to operate in the most capital and cost-efficient manner possible. We may also seek to expand our presence in businesses related to cement, ready-mix concrete, aggregates and Urbanization Solutions, and potentially also implement similar pricing strategies in the markets related to these businesses.

We continue to look to reduce our overall production related costs for all our products and regional and corporate overhead through disciplined cost management policies and through improving efficiencies by removing redundancies. We have implemented several worldwide standard platforms as part of this process and have also started different initiatives, such as a system designed to improve our operating processes worldwide and other digital-based solutions to achieve this. In addition, we implemented, and have been using, centralized management information systems throughout our operations, including administrative, accounting, purchasing, customer management, budget preparation and control systems, which have helped us achieve cost efficiencies. We also have agreements with several service providers expected to improve some of our business processes. We have also transferred key processes, such as procurement and trading, from a centralized model to a regional model and are simplifying and layering our business to accelerate decision-making and maximize efficiency.

In a number of our core markets, such as Mexico, we launched initiatives aimed at reducing the use of fossil fuels, consequently looking to reduce our overall energy costs.

Furthermore, significant economies of scale in key markets at times allow us to obtain competitive freight contracts for key components of our cost structure, such as fuel and coal, among others.

Through a worldwide import and export strategy, we plan to continue to seek to optimize capacity utilization and maximize profitability by redirecting our products from countries experiencing economic downturns to target export markets where demand may be greater. Our global trading system enables us to coordinate our export activities globally to try and take advantage of demand opportunities. Should demand for our products in the United States improve, subject to any measures the current U.S. government could implement, we believe we are well-positioned to service this market through our established presence in the southern and southwestern regions of the country and our current ability to import into the United States.

Our industry relies heavily on natural resources and energy, and we use cutting-edge technology to increase energy efficiency, reduce CO₂ emissions and optimize our use of raw materials and water. We are committed to measuring, monitoring and improving our environmental performance. In the last few years, we have implemented various procedures to improve the environmental impact of our activities as well as our overall product quality, such as a reduction of CO₂ emissions, an increased use of alternative fuels to reduce our reliance on primary fuels, an increased number of sites with local environmental impact plans in place and the use of alternative raw materials in our cement.

Operational Improvements

As a key lever to achieve our Operating EBITDA growth objective, we are constantly looking for ways to implement reductions in our cost structure. Throughout the years, such global cost-reduction initiatives have encompassed different undertakings, including headcount reductions, capacity closures across the cement value chain and a general reduction in global operating expenses. During the past years, CEMEX has launched company-wide programs aimed at enhancing competitiveness, providing a more agile and flexible organizational structure and supporting an increased focus on the Company's markets and customers.

Our latest significant initiative with operational improvement and cost-reduction implications is our Working Smarter digital transformation initiative. With Working Smarter, we leverage a combination of digital technologies, operative models, and innovation from leading service suppliers to reshape our business management services. As part of this initiative, in the first quarter of 2022, we signed separate multi-year contracts that range from 5 to 7 years that in the aggregate total \$500 million with six service providers in the fields of finance and accounting, information technology, and human resources. We estimate that the combination of these next-generation service contracts and its internal delivery transformation should materially contribute towards a \$100 million annual savings goal we have set once implementation is complete.

As part of our strategic priorities, we have implemented initiatives that seek to improve our operational performance and expense rationalization, increasing our use of alternative fuels in several of the countries in which we operate, serving our customers better and at lower costs, optimizing our production and logistics supply chain models and optimizing our procurement strategy. Also, in connection with the implementation of our cost-reduction initiatives, since 2017, we have implemented a low-cost sourcing initiative which is designed to maintain the continuity of our operations, while looking to provide attractive costs without materially affecting the quality of the products and services we acquire by using a strategic sourcing process empowered by our people's knowledge and quality management. This initiative is intended to reduce our cost of operations, while maintaining quality and timely delivery by acquiring goods and equipment from Mexico, India, Turkey and certain countries in Asia and Eastern Europe, among others.

Also, as part of these initiatives, at times we temporarily shut down (in some cases for a period of at least two months) some of our cement production lines in order to rationalize the use of our assets and reduce the accumulation of our inventories. In the past we have announced the permanent closure of some of our cement plants. Similar actions were taken in our ready-mix concrete and aggregates businesses. In the past, such rationalizations have included, among others, our operations in Mexico, the United States, including Puerto Rico, Spain, Croatia and the United Kingdom. As of December 31, 2022, we had four cement and grinding plants temporarily shut down (two cement plants in the United States, one cement plant in the United Kingdom, and two cement plants in Spain).

Furthermore, we intend to achieve energy cost-savings by actively managing our energy contracting and sourcing, and by increasing our use of alternative fuels. We believe that these cost-saving measures could better position us to quickly adapt to potential increases in demand and thereby benefit from the operating leverage we have built into our cost structure.

We also aim to better serve our customers at lower cost and to optimize our production and logistics supply chain models.

During different parts of the past years, we had reduced capital expenditures related to maintenance and expansion of our operations in response to weak demand for our products in some of the markets in which we do business. Such reductions were implemented with the intention of maximizing our free cash flow generation available for debt service and debt reduction, consistent with our ongoing efforts to strengthen our capital structure, improve our conversion of Operating EBITDA to free cash flow and regain our financial flexibility. During 2021 and 2022, our capital expenditures related to maintenance and expansion of our operations have been \$1,094 million and \$1,362 million, respectively, higher than the \$795 million expended in 2020. Pursuant to the 2017 Facilities Agreement, until November 8, 2021, we were prohibited from making aggregate annual capital expenditures in excess of \$1.5 billion (which were temporarily limited to \$1.2 billion pursuant to the May 2020 Facilities Agreement Amendments (as defined below) for as long as we failed to report two consecutive quarters with a Consolidated Leverage Ratio of 5.25:1 or below) in any financial year (excluding certain capital expenditures, joint venture investments and acquisitions by each of CLH and CHP and their respective subsidiaries and those funded by Relevant Proceeds (as defined in the 2017 Facilities Agreement)), which capital expenditures, joint venture investments and acquisitions at any time then incurred were subject to a separate aggregate limit of (i) \$500 million (or its equivalent) for CLH and its subsidiaries and (ii) \$500 million (or its equivalent) for CHP and its subsidiaries. In addition, the amount which we and our subsidiaries were allowed to put towards permitted acquisitions and investments in joint ventures was restricted from exceeding certain thresholds as set forth in the 2017 Facilities Agreement. However, no similar restrictions apply pursuant to the Credit Agreements as long as we are in compliance with our financial covenants.

User Base

Cement is the primary building material in the industrial and residential construction sectors of the majority of markets in which we operate. We believe that the lack or shortage of available cement substitutes further enhances the marketability of our product. The primary end-users of cement in each region in which we operate vary but usually include, among others, wholesalers, ready-mix concrete producers, industrial customers and contractors in bulk. Additionally, sales of bagged cement to individuals for self-construction and other basic needs have traditionally been a significant component of the retail sector. The end-users of ready-mix concrete generally include homebuilders, commercial and industrial building contractors and road builders. Major end-users of aggregates include ready-mix concrete producers, mortar producers, general building contractors and those engaged in road building activity, asphalt producers and concrete product producers. Our Urbanization Solutions have a wide user base which includes, but is not limited to, contractors, builders and developers in general, ready-mix concrete, cement, mortars and special mortars producers, governments, paving companies, architects and civil engineers. In summary, because of their many favorable qualities, a considerable number of builders and other users worldwide use our cement, ready-mix concrete, aggregates and Urbanization Solutions for almost every kind of construction project, from hospitals and highways to factories and family homes.

As of December 31, 2022, we did not depend on any single existing customer to conduct our business and the loss of any of our existing customers individually would not have had a material adverse effect on our financial condition or results of operations. For the period ended December 31, 2022, none of our individual customers represented more than 10% of our consolidated revenues.

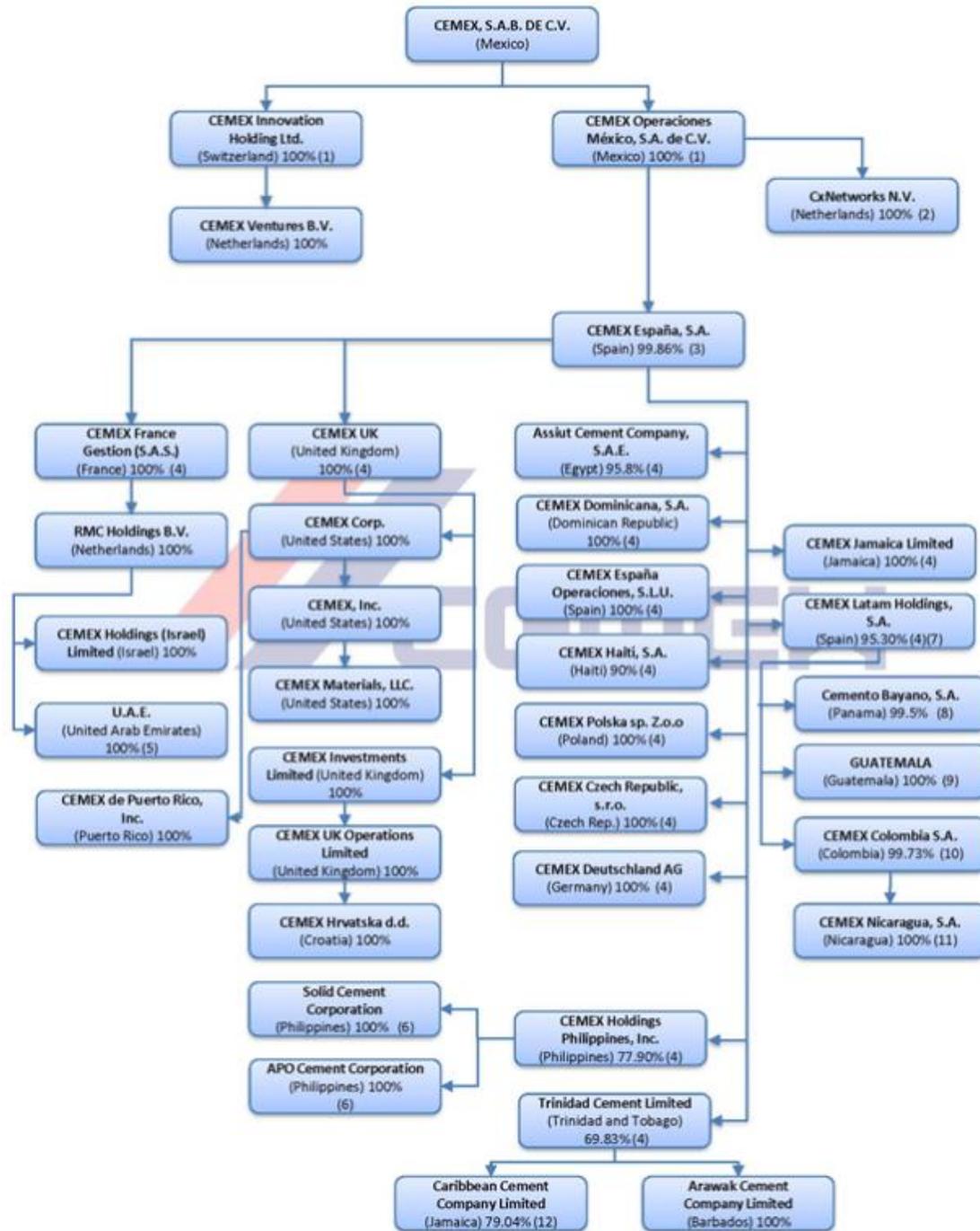
Our Corporate Structure

CEMEX, S.A.B. de C.V. is an operating and a holding company that primarily operates its business through subsidiaries which, in turn, hold interests in CEMEX's cement, aggregates, ready-mix concrete and Urbanization Solutions operating companies, as well as other businesses. The following chart summarizes CEMEX's corporate structure as of December 31, 2022. The chart also shows for each company, unless otherwise indicated,

CEMEX's approximate direct or indirect, or consolidated, percentage equity ownership or economic interest. The chart has been simplified to show only some of CEMEX's major holding companies and/or operating companies in most of the main countries in which CEMEX operates, and/or relevant companies in which CEMEX holds a significant direct or indirect interest and does not include all of CEMEX's operating subsidiaries and its intermediate holding companies.

CEMEX'S Corporate Structure

as of December 31, 2022



- (1) Includes CEMEX's direct or indirect, or consolidated, interest.
- (2) CxNetworks N.V. is the direct owner of 34.78% interest of the global business and IT consulting entity Neoris N.V.
- (3) Includes COM's, CIH's and CEMEX's interest, as well as shares held in CEMEX España's treasury.
- (4) Includes CEMEX España's direct or indirect, or consolidated, interest.
- (5) Represents CEMEX España's indirect economic interest in three companies incorporated in the United Arab Emirates: CEMEX Topmix LLC, CEMEX Supermix LLC and CEMEX Falcon LLC. CEMEX España indirectly owns a 49% equity interest in each of these companies and indirectly holds the remaining 51% of the economic benefits through agreements with other shareholders.
- (6) Represents CEMEX Holdings Philippines, Inc.'s direct and indirect equity interest.
- (7) Represents outstanding shares of CLH's capital stock and excludes treasury stock.
- (8) Represents CLH's 99.483% indirect interest in ordinary shares, which excludes a 0.516% interest held in Cemento Bayano, S.A.'s treasury.
- (9) Represents CLH's direct and indirect interest in three companies incorporated in Guatemala: CEMEX Guatemala, S.A., Global Concrete, S.A., and Cementos de Centroamérica, S.A.
- (10) Represents CLH's direct and indirect interest in ordinary and preferred shares and includes shares held in CEMEX Colombia's treasury.
- (11) Includes CEMEX Colombia's 99% interest and Corporación Cementera Latinoamericana, S.L.U.'s 1% interest.
- (12) Includes Trinidad Cement Limited's direct and indirect 74.08% interest and CEMEX's indirect 4.96% interest held through other subsidiaries.

Mexico

Overview. For the year ended December 31, 2022, our operations in Mexico represented 21% of our revenues in Dollar terms before eliminations resulting from consolidation. As of December 31, 2022, our operations in Mexico represented 31% of our total installed cement capacity and 15% of our total assets, in Dollar terms.

As of December 31, 2022, CEMEX, S.A.B. de C.V. was both a holding company for some of our operating companies in Mexico and was involved in the production, marketing, sale and distribution of cement, ready-mix concrete, aggregates and other construction materials and urbanization solutions in Mexico, as well as a construction materials and related products service provider. CEMEX, S.A.B. de C.V., indirectly, is also the holding company of all our international operations. CEMEX, S.A.B. de C.V. accounts for a substantial part of the revenues and operating income of our operations in Mexico.

Our Tepeaca cement plant in Puebla, Mexico, as of December 31, 2022, had a production capacity of 3.1 million tons of cement per year. In December 2014, we announced the restart of expansion project of the Tepeaca cement plant, consisting of the construction of a new kiln that is already in operation and a mill. Its total production capacity is expected to reach 4.6 million tons of cement per year by 2023 based on mill capacity. Additionally, we invested in the same region to increase our cement production capacity by 0.5 million tons of cement through a debottlenecking project for our operations in Huichapan. This project was completed during the first quarter of 2019. In May 2021, in order to generate enough supply to meet the increasing demand in the U.S. market and strengthen our position in the region, we resumed our operations in our CPN cement plant in Sonora, which has a production capacity of 1.9 million tons of cement per year.

In March 2022, following the successful restart of our operations in our CPN cement plant in Sonora, we announced the reactivation of our second CPN kiln in the Sonora plant to continue leveraging CEMEX's regional trading network to meet growing cement demand throughout the western United States. This project was completed during the fourth quarter of 2022 serving customers across Arizona, California and Nevada.

In 2001, we launched the Construrama program, a registered brand name for construction material stores. Through this program, we offer to an exclusive group of our Mexican distributors the opportunity to sell a variety of products under the Construrama brand name, a concept that includes the standardization of stores, image, marketing, products and services. As of December 31, 2022, 1,123 independent concessionaries with 2,389 stores were integrated into the Construrama program, with nationwide coverage.

Industry. For 2022, the National Institute of Statistics and Geography (*Instituto Nacional de Estadística y Geografía*) indicated that total construction activity in Mexico increased 0.4% as of December 2022 (seasonally adjusted figures). Such marginal increase has been attributed to the post-pandemic recovery of the formal construction industry, particularly in the industrial sector.

Cement in Mexico is sold mainly through distributors, with the remaining balance sold through ready-mix concrete producers, manufacturers of pre-cast concrete products and construction contractors. Cement sold through distributors is mixed with aggregates and water by the end user at the construction site to form concrete. Ready-mix concrete producers mix the ingredients in plants and deliver it to local construction sites in mixer trucks, which pour the concrete. Unlike more developed economies, where purchases of cement are concentrated in the commercial and industrial sectors, retail sales of cement through distributors in 2022 accounted for approximately 55% of Mexico's demand (bagged presentation). Individuals who purchase bags of cement for self-construction and other basic construction needs are a significant component of the retail sector. We believe that this large retail sales base is a factor that significantly contributes to the overall performance of the cement market in Mexico.

The retail nature of the Mexican cement market also enables us to foster brand loyalty, which distinguishes us from other worldwide producers selling primarily in bulk. We own the registered trademarks for our brands in Mexico, such as "Tolteca," "Monterrey," "Maya," "Anahuac," "Campana," "Gallo," "Centenario," as well as certain sub-brands, such as "Extra," "Impercem" and "Optimo" for gray cements and mortar and, additionally, recently launched "Multiplast" for coatings. We believe that these brand names are important in Mexico since cement is principally sold in bags to retail customers who may develop brand loyalty based on differences in quality and service. We also have trademark registrations for our special concrete's brands such as "Promptis," "Resilia," "Pervia," "Insularis" and "Evolution." In Mexico, we introduced "Vertua" as a value cement and concrete brand. "Vertua" is CEMEX's global brand for low carbon footprint products. In addition, we own the registered trademark for the "Construrama" brand name for construction material stores and for our new digital solution we have trademark registrations for "CEMEX Go" and "Olivia."

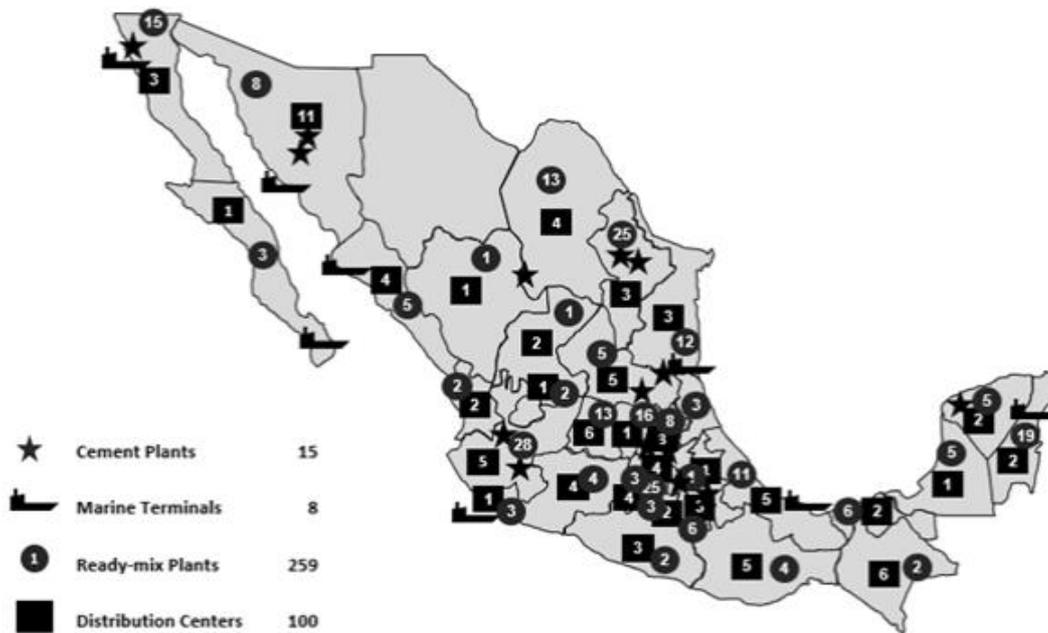
Competition. In the early 1970s, the cement industry in Mexico was regionally fragmented. However, since that time, cement producers in Mexico have increased their production capacity and the cement industry in Mexico has consolidated into a national market, thus becoming increasingly competitive. As of December 31, 2022, the major cement producers in Mexico were CEMEX; Holcim; Sociedad Cooperativa Cruz Azul, a Mexican operator; Cementos Moctezuma, an associate of Cements Molins and Buzzi-Unicem; and GCC, S.A.B. de C.V. ("GCC," formerly Grupo Cementos de Chihuahua, S.A.B. de C.V.), a Mexican operator in whose majority holder, Camcem, S.A. de C.V. ("CAMCEM"), we hold a minority interest. During 2013, a then-new cement producer, Elementia (now *Fortaleza Materiales*), entered the market and in 2014 acquired two cement plants from Lafarge (prior to the Lafarge-Holcim merger). As of December 31, 2022, the major ready-mix concrete producers in Mexico were CEMEX, Holcim, Sociedad Cooperativa Cruz Azul and Cementos Moctezuma. In addition, as of December 31, 2022, the use of non-integrated ready-mixers has been increasing.

We believe potential entrants into the Mexican cement market face various barriers to entry, including, among other things: the time-consuming and expensive process of establishing a retail distribution network and developing the brand identification necessary to succeed in the retail market; the lack of port infrastructure and the high inland transportation costs resulting from the low value-to-weight ratio of cement; the distance from ports to major consumption centers and the presence of significant natural barriers, such as mountain ranges, which border Mexico's east and west coasts; the strong brand recognition and the wide variety of special products with enhanced properties; the extensive capital expenditure requirements; and the length of time required for construction of new plants, which we estimate is approximately two years. Nevertheless, Fortaleza Materiales started a stand-alone cement mill in the Yucatan Peninsula during October 2020. Additionally, at the end of the first quarter of 2021, Holcim started operating a stand-alone cement mill located in the Yucatan Peninsula, aiming to strengthen its market position and supply cost in this region. During 2022, a new independent producer, Grupo Comercial AMORI, entered the market in the Yucatan Peninsula with a cement mill facility located in Progreso, Yucatán, under the brand "Cementos Jaguar." This facility corresponds to the first new entry into the cement industry since the Fortaleza's incursion in 2013.

Urbanization Solutions. In Mexico, for the year ended December 31, 2022, in terms of relevant revenues, our Related Services and Circularity verticals were the main contributors. These businesses are located across Mexico.

Our Operating Network in Mexico

During 2022, we operated 15 cement plants and 108 cement distribution centers (including eight marine terminals) located throughout Mexico.



We operate cement plants on the Gulf of Mexico and Pacific coasts of Mexico, most of the time allowing us to take advantage of attractive transportation costs to export to the United States and the SCA&C region, when possible.

Products and Distribution Channels

Cement. For the year ended December 31, 2022, our cement operations represented 57% of revenues for our operations in Mexico before eliminations resulting from consolidation in Dollar terms and our domestic cement sales volume represented 89% of our total cement sales volume in Mexico. As a result of the retail nature of the Mexican market, our operations in Mexico are not dependent on a limited number of large customers. The total volume of the five most important distributors accounted for 12% of our total cement sales by volume in Mexico in 2022 (excluding our in-house channels).

Ready-Mix Concrete. For the year ended December 31, 2022, our ready-mix concrete operations represented 20% of revenues for our operations in Mexico before eliminations resulting from consolidation in Dollar terms. Our ready-mix concrete operations in Mexico purchase substantially all their cement requirements from our cement operations in Mexico. Ready-mix concrete is sold through our own internal sales force and facilities network.

Aggregates. For the year ended December 31, 2022, our aggregates operations represented 6% of revenues for our operations in Mexico before eliminations resulting from consolidation in Dollar terms.

Urbanization Solutions and Others: For the year ended December 31, 2022, our Urbanization Solutions and other businesses operations represented 17% of revenues for our operations in Mexico before eliminations resulting from consolidation in Dollar terms.

Exports. Our operations in Mexico export a portion of their cement production, mainly in the form of cement and to a lesser extent in the form of clinker. Exports of cement by our operations in Mexico represented 14% of our total cement sales volume in Mexico for 2022. In 2022, 92% of our cement exports from Mexico were to the United States and 8% were to our Rest of SCA&C segment.

The cement and clinker exports by our operations in Mexico to the United States are mostly marketed through our trading network subsidiaries. Our cement and clinker transactions between CEMEX and its subsidiaries, are conducted on an arm's-length basis.

Production Costs. Our cement plants in Mexico primarily utilize pet coke and alternative fuels. Two 20-year pet coke supply contract agreements with PEMEX Madero refinery expired at the end of September 2022. The contracts were replaced by a 5-year supply agreement awarded in a tender for an estimated 30% of our pet coke consumption. By the end of October 2022, PEMEX unilaterally suspended deliveries from the Cadereyta refinery in two additional contracts. CEMEX and PEMEX agreed on a new pricing methodology based on the current pet coke market for the remainder of the contract period. PEMEX is expected to open a tender for the Cadereyta refinery in June 2023. CEMEX was also awarded a 2-year contract for the Minatitlan refinery in November 2022, which is equivalent to 11% of our cement plant consumption. In general, we have been able to purchase pet coke in the open market when needed to make up for any quantities not supplied by PEMEX. In addition, in 1992, our operations in Mexico began using alternative fuels to further reduce the consumption of residual fuel oil and natural gas. These alternative fuels represented 36% of the total fuel consumption for our cement plant operations in Mexico in 2022. For additional information, see "Management's Discussion and Analysis of Financial Condition and Results of Operations—Summary of Material Contractual Obligations and Commercial Commitments—Cash Requirements."

In 1999, we entered into an agreement with an international partnership, which financed, built and operated TEG, a 230 megawatt ("MW") energy plant in Tamuín, San Luis Potosí, Mexico. We entered into this agreement in order to reduce the volatility of our energy costs. The power plant commenced commercial operations in April 2004. In 2007, the original operator was replaced and the agreement was extended to 2027. At the end of 2023, TEG is expected to migrate to the wholesale market to supply CEMEX load points. For additional information, see "Management's Discussion and Analysis of Financial Condition and Results of Operations—Summary of Material Contractual Obligations and Commercial Commitments—Cash Requirements."

In 2006, in order to take advantage of the high wind potential in the "Tehuantepec Isthmus," CEMEX and the Spanish company ACCIONA, S.A. ("ACCIONA"), formed an alliance to develop a wind farm project for the generation of 250 MW in the Mexican state of Oaxaca. The installation of 167 wind turbines in the farm was finished on November 15, 2009. For additional information, see "Management's Discussion and Analysis of Financial Condition and Results of Operations—Summary of Material Contractual Obligations and Commercial Commitments—Cash Requirements."

In connection with the beginning of full commercial operations of Ventika, S.A.P.I. de C.V. and Ventika II S.A.P.I. de C.V. wind farms (jointly, “Ventikas”), located in the Mexican state of Nuevo León, with a combined generation capacity of 252 MW, we agreed to acquire a portion of the energy generated by Ventikas for our Mexican plants for a period of 20 years, which began in April 2016. During 2022, Ventikas supplied 8.5% of CEMEX’s overall electricity needs in Mexico. This agreement is for CEMEX’s own use and as of the date of this report, CEMEX does not intend to engage in energy trading.

On October 24, 2018, in order to take advantage of lower electric energy prices, we entered into agreements for a period of 20 years with Tuli Energía, S. de R.L. de C.V. (“Tuli Energía”) and Helios Generación, S. de R.L. de C.V. (“Helios Generación”) to acquire a portion of the energy generated by such solar projects. The solar plants located in the Mexican state of Zacatecas have a combined generation capacity of 300 MW. These solar plants started producing test energy in September 2019, and the effective commencement date of such agreements was December 21, 2019 for Tuli Energía and April 22, 2020 for Helios Generación.

We have, from time to time, purchased hedges from third parties to reduce the effect of volatility in energy prices in Mexico. See “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Summary of Material Contractual Obligations and Commercial Commitments—Cash Requirements.” Additionally, a CEMEX subsidiary participated as a buyer in the third long-term power auction organized in 2017 by the National Center for Energy Control (*Centro Nacional de Control de Energía*) (“CENACE”) (the independent system operator) and has been allocated a 20-year contract, that started in November 2020. The contract is for 16,129 clean energy certificates per year for compliance with legal requirements and 14.9 GWh/a of electric power.

Description of Properties, Plants and Equipment. As of December 31, 2022, we had 15 wholly-owned cement plants (all of them active) with a cement installed capacity of 27.3 million tons per year and proportional interests through associates in three other cement plants located throughout Mexico. We have exclusive access to limestone quarries and clay reserves near each of our plant sites in Mexico. We estimate that, as of December 31, 2021, the limestone and clay permitted proven and probable reserves of our operations in Mexico had an average remaining life of 137 and 104 years, respectively, assuming 2017 to 2021 average annual production levels. As of December 31, 2022, all our producing plants in Mexico utilized the dry process.

As of December 31, 2022, we had a network of 100 land distribution centers in Mexico, which are supplied through a fleet of our own trucks and rail cars, as well as leased trucks and rail facilities, and operated eight marine terminals. In addition, we had 259 ready-mix concrete plants (31 were temporarily inactive) throughout 75 cities in Mexico, more than 2,200 ready-mix concrete delivery trucks and 13 aggregates quarries (one was temporarily inactive).

Capital Expenditures. We made capital expenditures of \$144 million in 2020, \$190 million in 2021, and \$265 million 2022. As of December 31, 2022, we expected to make capital expenditures of over \$186 million in our operations in Mexico during 2023.

United States

Overview. For the year ended December 31, 2022, our operations in the United States represented 27% of our revenues in Dollar terms before eliminations resulting from consolidation. As of December 31, 2022, our operations in the United States represented 16% of our total installed cement capacity and 48% of our total assets, in Dollar terms. As of December 31, 2022, CEMEX, Inc. was the main holding company of our operating subsidiaries in the United States.

On September 23, 2013, we and Concrete Supply Company, a leading producer of ready-mix concrete throughout North and South Carolina, entered into a joint venture agreement and formed a joint venture company named Concrete Supply Co. LLC, in which Concrete Supply Holdings Co. holds a majority ownership stake in and acts as the managing member. This joint venture is a leading concrete supplier in North and South Carolina with strong local management.

Industry. Demand for cement is derived from the demand for ready-mix concrete and concrete products which, in turn, is dependent on the demand for construction. The construction industry is composed of three major sectors: the residential, the industrial-and-commercial and the public sectors. The public sector is the most cement intensive sector, particularly for infrastructure projects such as streets, highways and bridges.

Prior to the impact of the COVID-19 pandemic, the construction industry had showed signs of a slow recovery from the financial crisis experienced during 2008 and 2009, which was the worst downturn in over 70 years. The construction industry was hit particularly hard during this financial crisis due to the collapse of the housing sector. Housing starts fell 73% from a peak of 2.1 million units in 2005 to only 554,000 units in 2009. The decline in housing and other construction activity resulted in a 45% decline in cement demand from 2005 to 2010. The economic recovery had proceeded at a relatively moderate pace, with real GDP average annual growth of 2.3% since 2011 through the end of 2019. With the economy growing again, the construction sector stabilized in 2010 and joined the economy-wide recovery in 2011. The excess vacant inventory in the housing sector has been absorbed and existing home inventories for sale have declined to below normal levels across the nation, which together have supported an increase in housing prices for 2017, 2018 and 2019 of about 16%. Housing starts increased by 223% from 554 thousand units in 2009 to 1.3 million units in 2019. Housing starts in 2019 increased by 3% from 2018 to 1.3 million units, which remains below the historical steady state level. The industrial-and-commercial sector had also been growing with nominal spending up 8% from 2014 to 2019. Industrial-and-commercial nominal spending decreased by 2% in 2019. The public sector, which has lagged compared to the other construction sectors in this recovery, recorded a spending increase of 9% in 2019. Cement demand had been increasing annually since 2014 with an estimated growth of 1.8% in 2022 after an increase of 15% from 2016 to 2022. As of December 31, 2022, the Portland Cement Association is forecasting a 3.5% decrease in cement demand in the United States for 2023, but as of the date of this report we are not able to assess whether the cement demand in the United States will decrease or not during 2023. See “Risk Factors—Risks Relating to Our Business— Future pandemics and epidemics, such as the COVID-19 pandemic, could materially adversely affect our financial condition and results of operations.” High mortgage rates resulting from Federal Reserve interest rate increases and quantitative tightening could result in lower than expected single family housing demand. See “Risk Factors—Risks Relating to Our Business.”

Competition. As of December 31, 2022, the cement industry in the United States was highly competitive, including national and regional cement producers in the United States. As of December 31, 2022, our principal competitors in the United States were Holcim, Buzzi-Unicem, HeidelbergCement AG (“Heidelberg”) and CRH.

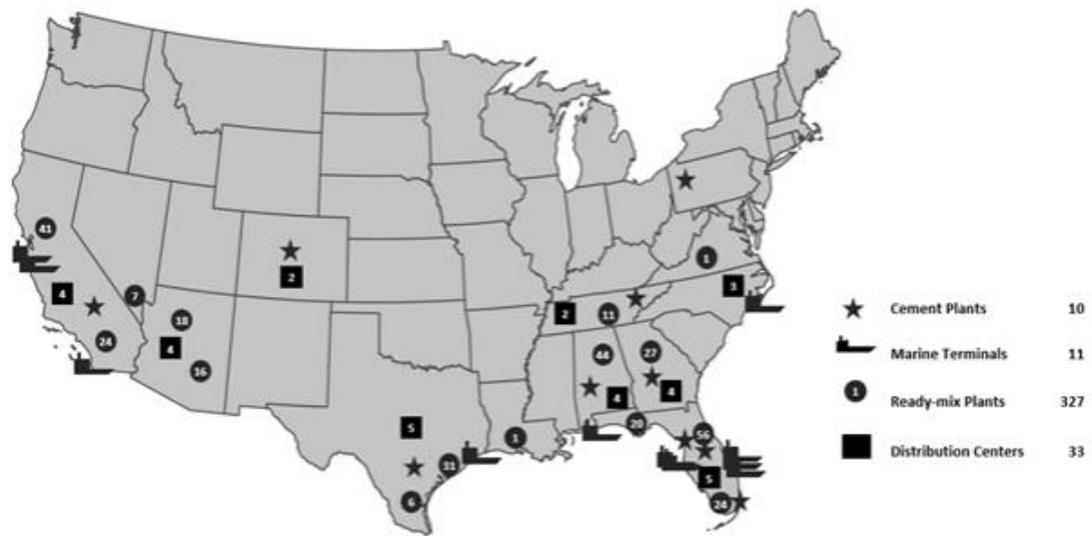
As of December 31, 2022, the independent U.S. ready-mix concrete industry was highly fragmented. According to the National Ready Mixed Concrete Association (“NRMCA”), it is estimated that as of December 31, 2022 there were about 6,500 ready-mix concrete plants that produce ready-mix concrete in the United States and about 65,000 ready-mix concrete mixer trucks that delivered the concrete to the point of placement. The NRMCA estimates that, as of December 31, 2022, the value of ready-mix concrete produced by the industry was approximately \$35 billion per year. Given that the concrete industry has historically consumed approximately 75% of all cement produced annually in the United States, many cement companies choose to develop concrete plant capabilities.

Aggregates are widely used throughout the United States for all types of construction because they are the most basic materials for building activity. The United States Geological Survey (“USGS”) estimates over 2.5 billion tons of aggregates were produced in 2022, an increase of about 1% over 2021. As of December 31, 2022, crushed stone accounted for 60% of aggregates consumed, sand & gravel for 39%, and slag for 1%. These products are produced in all 50 states and had a value of \$32 billion as of December 31, 2022. The United States aggregates industry is highly fragmented and geographically dispersed. The top ten producing states represented more than 53% of all production as of year-end 2022. According to the USGS, during 2022, an estimated 3,300 companies operated 6,200 sand and gravel sites and 1,340 companies operated 3,290 crushed stone quarries in the 50 states.

Urbanization Solutions. In the United States, for the year ended December 31, 2022, in terms of relevant revenues, our Related Services and Industrialized Construction verticals were the main contributors. These businesses are located across the Sun Belt region of the United States.

Our Operating Network in the United States

The maps below reflect the location of our operating assets, including our cement plants and cement terminals in the United States as of December 31, 2022.



Products and Distribution Channels

Cement. For the year ended December 31, 2022, our cement operations represented 30% of revenues for our operations in the United States, before eliminations resulting from consolidation in Dollar terms. In the United States, we deliver a substantial portion of cement by rail, which occasionally goes directly to customers. Otherwise, shipments go to distribution terminals where customers pick up the product by truck or we deliver the product by truck. The majority of our cement sales in the United States are made directly to users of gray portland and masonry cements, generally within a radius of approximately 200 miles of each plant.

Ready-Mix Concrete. For the year ended December 31, 2022, our ready-mix concrete operations represented 42% of revenues for our operations in the United States, before eliminations resulting from consolidation in Dollar terms. Our ready-mix concrete operations in the United States purchase most of their cement aggregates requirements from our cement operations in the United States. Our ready-mix concrete products are mainly sold to residential, commercial and public contractors and to building companies.

Aggregates. For the year ended December 31, 2022, our aggregates operations represented 18% of revenues for our operations in the United States, before eliminations resulting from consolidation in Dollar terms. We estimate that, as of December 31, 2021, the hard rock quarries and sand and gravel pits permitted proven and probable reserves of our operations in the United States had an average remaining life of 32 and 22 years, respectively, assuming 2017 to 2021 average annual aggregates production levels. Our aggregates are consumed mainly by our internal operations and by our trade customers in the ready-mix, concrete products and asphalt industries.

Urbanization Solutions and Others: For the year ended December 31, 2022, our Urbanization Solutions and other businesses operations represented 10% of revenues for our operations in the United States before eliminations resulting from consolidation in Dollar terms.

Production Costs. The largest cost components of our plants are usually electricity and fuel. Fuel accounted for 12% of our total production costs of our cement operations in the United States in 2022. As of December 31, 2022, we had been implementing a program expected to gradually replace coal with more economic fuels, such as pet coke, tires and other alternative fuels, which has resulted in reduced energy costs. By retrofitting our cement plants to handle alternative energy fuels, we believe we have gained more flexibility in supplying our energy needs and have become less vulnerable to potential price spikes in energy. Power costs in 2022 represented 7% of the cash manufacturing cost of our cement operations in the United States, which represents production cost before depreciation. We aim to improve the efficiency of our electricity usage of our cement operations in the United States, concentrating our manufacturing activities in off-peak hours and negotiating lower rates with electricity suppliers.

Description of Properties, Plants and Equipment. As of December 31, 2022, we operated a geographically diverse base of 10 cement manufacturing plants in the United States (two were temporarily inactive) located in Alabama, California, Colorado, Florida, Georgia, Pennsylvania, Tennessee and Texas, and had a total installed cement capacity of 14.1 million tons per year. We estimate that, as of December 31, 2021, the limestone permitted proven and probable reserves of our operations in the United States had an average remaining life of 45 years, assuming 2017 to 2021 average annual production levels. As of December 31, 2022, we operated a distribution network of 33 cement terminals (four of which we distributed fly ash through) and 11 deep-water import terminals. All of our 10 cement production facilities in 2022 were wholly-owned by CEMEX, Inc. As of December 31, 2022, CEMEX, Inc. had 327 ready-mix concrete plants (36 were temporarily inactive) located in Alabama, Arizona, California, Florida, Georgia, Louisiana, Nevada, Tennessee, Texas and Virginia and operated a total of 55 aggregates quarries (14 were temporarily inactive) in Arizona, California, Florida, Georgia, Nevada, South Carolina and Texas. As of December 31, 2022, we had 16 concrete block facilities. Considering mainly the negative effects of the COVID-19 pandemic on certain idle assets that will remain closed for the foreseeable future in relation to the estimated sales volumes and our ability to supply demand by achieving efficiencies in other operating assets, during 2022, we recognized non-cash impairment losses related to fixed assets of \$26 million in the United States.

In the United States, we have continued to take a number of actions to streamline our operations and improve productivity, including temporary capacity adjustments and rationalizations in some of our cement plants, and shutdowns of ready-mix concrete and block plants and aggregates quarries. As of December 31, 2022, we were utilizing approximately 89% of our ready-mix concrete plants, 75% of our block manufacturing plants and 73% of our aggregates quarries in the United States.

Capital Expenditures. We made capital expenditures of \$284 million in 2020, \$373 million in 2021 and \$551 million in 2022 in our operations in the United States. As of December 31, 2022, we expected to make capital expenditures of \$492 million in our operations in the United States during 2023.

EMEAA

For the year ended December 31, 2022, our business in the EMEAA region, which includes our operations in the EMEAA region and the Rest of EMEAA segment, as described below, represented 27% of our revenues before eliminations resulting from consolidation. As of December 31, 2022, our operations in the EMEAA region represented 39% of our total installed capacity and 23% of our total assets, in Dollar terms.

Our Operations in the United Kingdom

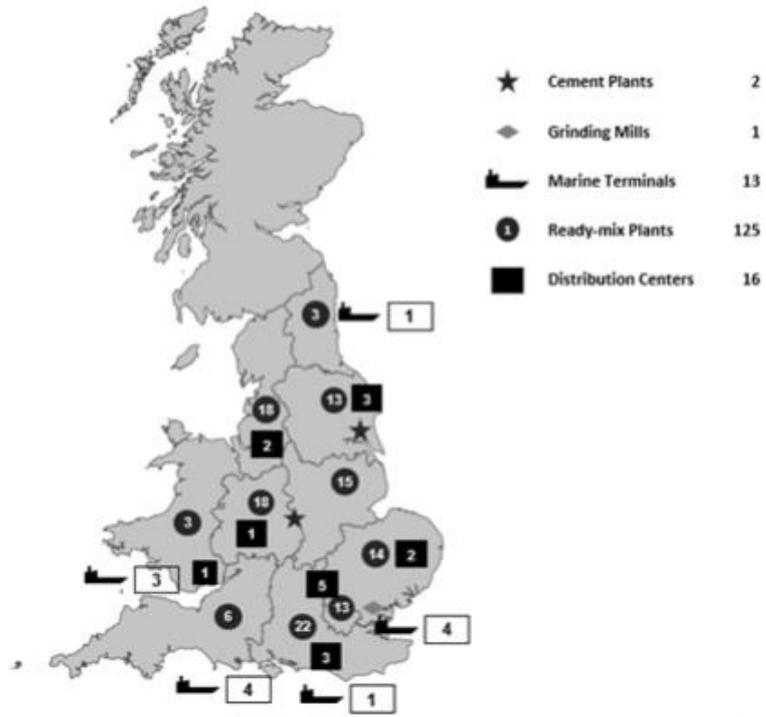
Overview. For the year ended December 31, 2022, our operations in the United Kingdom represented 5% of our revenues in Dollar terms, before eliminations resulting from consolidation in Dollar terms. As of December 31, 2022, our operations in the United Kingdom represented 5% of our total assets, in Dollar terms.

As of December 31, 2022, we were a leading provider of building materials in the United Kingdom with vertically integrated cement, ready-mix concrete, aggregates and asphalt operations, and we were also an important provider of concrete and precast materials solutions such as concrete blocks, concrete block paving, flooring systems and sleepers for rail infrastructure.

Industry. According to the United Kingdom Office for National Statistics (ONS), total construction output increased by 5.6% in 2022, which follows a record increase of 12.8% in 2021. The ONS also reported that construction orders increased by 3.8% year-over-year in 2022. This was driven by an 8.5% growth in new housing orders while industrial-commercial new construction rose by 7.4%. Industrial projects were particularly strong during the year, increasing by 42.5%, although they accounted for only about 6.1% of total new construction orders. Meanwhile, infrastructure decreased by 2.5% in 2022. As of December 31, 2022, the official data corresponding to 2022 has not been released by the Mineral Products Association, but as of the date of this report we estimate that domestic cement demand decreased at low single-digit rates in 2022 compared to 2021. Ready-mix concrete consumption in the full year 2022 decreased by 3.8%.

Competition. As of December 31, 2022, our primary competitors in the United Kingdom are: Tarmac (owned by CRH after divestments by Lafarge and Holcim during their merger), Hanson (a subsidiary of Heidelberg), Aggregate Industries (a subsidiary of Holcim) and Breedon, which acquired Hope Construction Materials (owned by Mittal Investments). In addition, during 2022 an estimated 3.4 million tons of cement were imported to the United Kingdom by various players including CRH, Holcim, Heidelberg and other independents, with products that compete with ours increasingly arriving from over-capacity markets including Ireland, Spain and Greece.

Urbanization Solutions. In the United Kingdom, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of asphalt, concrete block, mortars and admixtures, among others. These businesses are located across the United Kingdom.





Products and Distribution Channels

Cement. For the year ended December 31, 2022, our cement operations represented 25% of revenues for our operations in the United Kingdom before eliminations resulting from consolidation in Dollar terms. About 83% of our United Kingdom cement sales were of bulk cement, with the remaining 17% in bags. Our bulk cement is mainly sold to ready-mix concrete, concrete block and pre-cast product customers and contractors. Our bagged cement is primarily sold to national builders’ merchants.

Ready-Mix Concrete. For the year ended December 31, 2022, our ready-mix concrete operations represented 26% of revenues for our operations in the United Kingdom before eliminations resulting from consolidation in Dollar terms. Special products, including self-compacting concrete, fiber-reinforced concrete, high strength concrete, flooring concrete and filling concrete, represented 27% of our 2022 United Kingdom sales volume. In 2022, our ready-mix concrete operations in the United Kingdom purchased 96% of its cement requirements from our cement operations in the United Kingdom and 82% of its aggregates requirements from our aggregates operations in the United Kingdom. Our ready-mix concrete products are mainly sold to public, commercial and residential contractors.

Aggregates. For the year ended December 31, 2022, our aggregates operations represented 30% of revenues for our operations in the United Kingdom before eliminations resulting from consolidation in Dollar terms. In 2022, our United Kingdom aggregates sales were divided as follows: 60% were sand and gravel, 39% were limestone, and 1% was hardstone. In 2022, 35% of our aggregates volumes were obtained from marine sources along the United Kingdom’s coast. In 2022, 31% of our United Kingdom aggregates production was consumed by our own ready-mix concrete operations as well as our asphalt, concrete block and precast operations. We also sell aggregates to major contractors to build roads and other infrastructure projects.

Urbanization Solutions and Others: For the year ended December 31, 2022, our Urbanization Solutions and other businesses operations represented 19% of revenues for our operations in the United Kingdom before eliminations resulting from consolidation in Dollar terms.

Cement Production Costs. In 2022, fixed production costs increased by 6.5% driven by increased maintenance costs and significant inflationary pressures. Variable costs increased by 23% in absolute terms, primarily as a result of increased costs of energy and purchased cement and clinker. During 2022, we continued to implement our cost reduction programs through our use of alternative fuels.

Ready-Mix Concrete Production Costs. In 2022, fixed production costs increased by 10.9%, as compared to fixed production costs in 2021, due to increased maintenance spend following only essential spend during the COVID-19 pandemic.

Aggregates Production Costs. In 2022, fixed production costs increased by 5.6% as compared to 2021 fixed production costs due to a change in insurance allocation between U.K. businesses and increased spend on temporary labor and machine hire following restrictions resulting from the COVID-19 pandemic.

Description of Properties, Plants and Equipment. As of December 31, 2022, we had two cement plants (one was temporarily inactive) and one clinker grinding facility in the United Kingdom. Assets in operation at year-end 2022 represent an installed cement capacity of 3.6 million tons per year, the same level as 2021. We estimate that, as of December 31, 2021, the limestone and clay permitted proven and probable reserves of our operations in the United Kingdom had an average remaining life of 52 and 45 years, respectively, assuming 2017 to 2021 average annual production levels. As of December 31, 2022, we also owned three cement import terminals and operated 125 ready-mix concrete plants (25 were temporarily inactive), 32 aggregates quarries (11 were temporarily inactive), 15 marine licenses (all of them active), 16 distribution centers, and 13 marine terminals in the United Kingdom. In addition, we had operating units dedicated to the asphalt, concrete blocks, concrete block paving, sleepers and flooring businesses in the United Kingdom.

In order to have access to blended cements, which are more sustainable based on their reduced clinker factor and use of by-products from other industries, our grinding and blending facility at the Port of Tilbury, located on the Thames River east of London has an annual grinding capacity of 0.9 million tons, which allows us to have access to blended cements.

Capital Expenditures. We made capital expenditures of \$55 million in 2020, \$94 million in 2021 and \$74 million in 2022 in our operations in the United Kingdom. As of December 31, 2022, we expected to make capital expenditures of \$64 million in our operations in the United Kingdom during 2023.

Our Operations in France

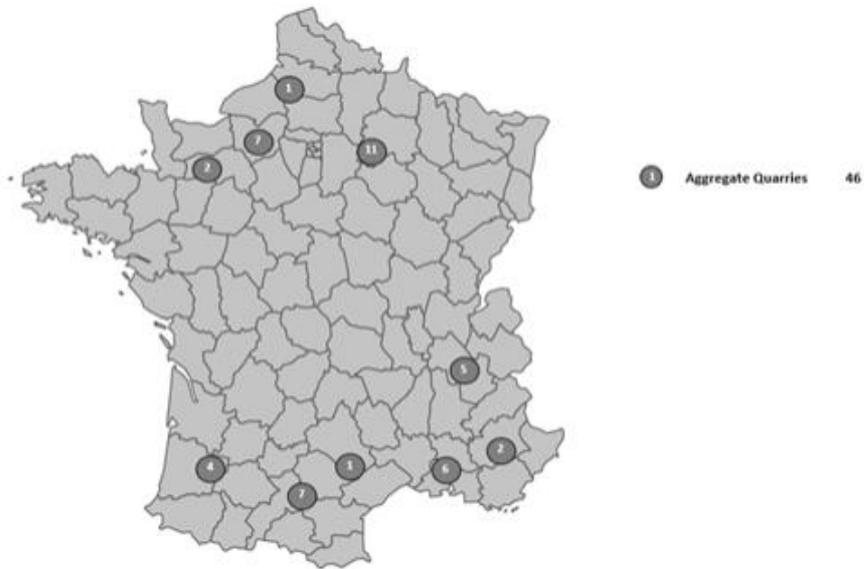
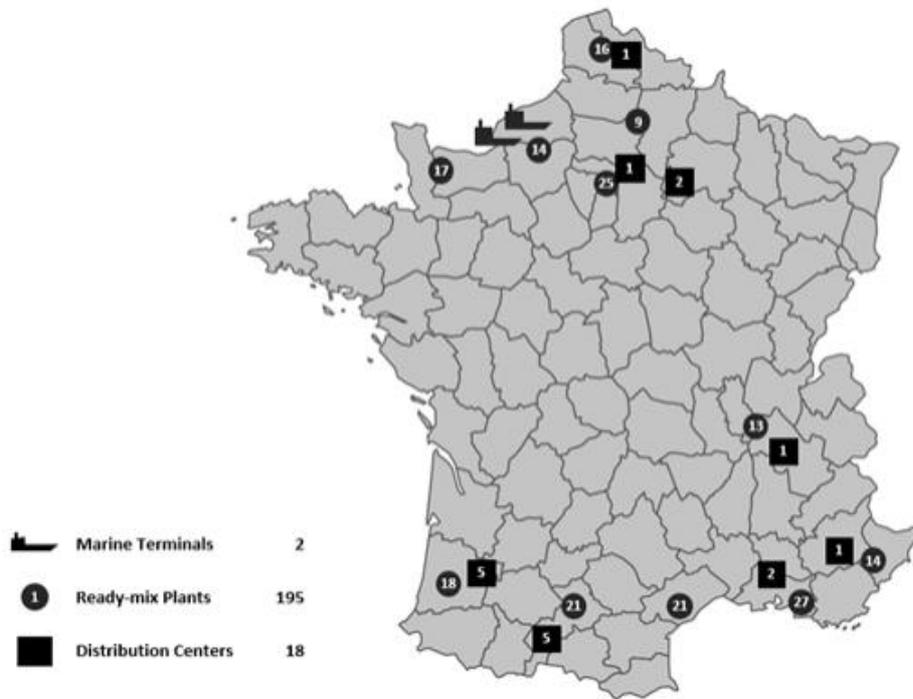
Overview. As of December 31, 2022, we were a leading ready-mix concrete producer and a leading aggregates producer in France. For the year ended December 31, 2022, our ready-mix concrete operations represented 64%, aggregates represented 34% and Urbanization Solutions represented 2% of revenues for our operations in France before eliminations resulting from consolidation in Dollar terms. We distribute most of our materials by road and a significant quantity by waterways, seeking to maximize the use of this efficient and sustainable alternative. For the year ended December 31, 2022, our operations in France represented 4% of our revenues in Dollar terms, before eliminations resulting from consolidation. As of December 31, 2022, our operations in France represented 4% of our total assets, in Dollar terms.

Industry. According to the National Institute of Statistics and Economic Studies, housing starts in the residential sector decreased by 3.9% in 2022 compared to 2021. Non-residential starts (m²) increased by 6.5% in 2022 compared to 2021 and demand from the public works sector decreased by 7.4% over the same period. According to National Union of Quarrying and Building Materials Industries (French Association), ready-mix concrete consumption decreased by 4% in 2022.

Competition. As of December 31, 2022, our main competitors in the ready-mix concrete market in France included Holcim, Heidelberg, CRH and Vicat SA (“Vicat”), and our main competitors in the aggregates market in France included Holcim, Heidelberg, Colas (Bouygues) and Eurovia (Vinci). In France, we rely on sourcing cement from third parties, while many of our major competitors in ready-mix concrete are subsidiaries of French cement producers.

Urbanization Solutions. In France, for the year ended December 31, 2022, our Urbanization Solutions business consisted of admixtures. This business is located across France.

Our Operating Network in France



Description of Properties, Plants and Equipment. As of December 31, 2022, we operated 195 ready-mix concrete plants in France (five were temporarily inactive), two marine terminals located in Le Havre, on the northern coast of France, 18 land distribution centers, 46 aggregates quarries (five were temporarily inactive) and 11 river ports.

Capital Expenditures. We made capital expenditures of \$62 million in 2020, \$44 million in 2021, and \$57 million in 2022 in our operations in France. As of December 31, 2022, we expected to make capital expenditures of \$40 million in our operations in France during 2023.

Our Operations in Germany

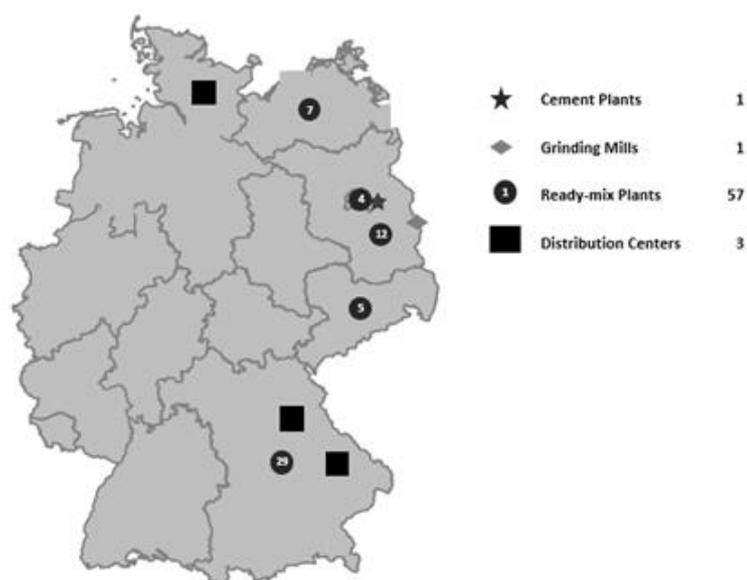
Overview. For the year ended December 31, 2022, our operations in Germany represented 3% of our revenues in Dollar terms, before eliminations resulting from consolidation. As of December 31, 2022, our operations in Germany represented 2% of our total assets, in Dollar terms. For the year ended December 31, 2022, cement represented 37%, ready-mix concrete represented 32%, aggregates represented 14%, Urbanization Solutions and our other businesses represented 17% of revenues in Dollar terms from our operations in Germany before eliminations resulting from consolidation. As of December 31, 2022, we were a leading provider of building materials in Germany, with vertically integrated cement, ready-mix concrete and aggregates businesses.

Industry. Relatedly, according to DESTATIS, the German Federal Statistical Office, domestic sales volume decreased by 5.2% in 2022 compared to 2021. This coincided with a 20.9% increase in producer prices for cement during this same period.

Competition. As of December 31, 2022, our primary competitors in the cement market in Germany were Heidelberg, Dyckerhoff (a subsidiary of Buzzi-Unicem), Holcim, CRH and Schwenk, a local German competitor. These competitors, along with CEMEX in Germany, represented a market share of above 95%, as estimated by us, for 2022. The ready-mix concrete and aggregates markets in Germany are fragmented and regionally heterogeneous, with many local competitors. The consolidation process in the ready-mix concrete and aggregates markets is moderate.

Urbanization Solutions. In Germany, for the year ended December 31, 2022, our Urbanization Solutions business consisted of admixtures. This business is located mainly in the eastern and western regions of Germany.

Our Operating Network in Germany





1 Aggregate Quarries 28

Description of Properties, Plants and Equipment. As of December 31, 2022, we operated one cement plant and one cement grinding mill in Germany and our installed cement capacity was 3.1 million tons per year. We estimate that, as of December 31, 2021, the limestone permitted proven and probable reserves of our operations in Germany had an average remaining life up to 34 years, assuming 2017 to 2021 average annual production levels. In July 2022, CEMEX completed the acquisition of a 53% stake in ProStein, a German aggregates company. Our aggregate sales in Germany are expected to double as a result of the acquisition. ProStein's assets include six active hardstone plants. As of December 31, 2022, our operations in Germany also included 57 ready-mix concrete plants (all of them active), 28 aggregates quarries (12 were temporarily inactive) and three land distribution center.

Capital Expenditures. We made capital expenditures of \$24 million in 2020, \$29 million in 2021, and \$33 million in 2022 in our operations in Germany. As of December 31, 2022, we expected to make capital expenditures of \$38 million in our operations in Germany during 2023.

Our Operations in Poland

Overview. For the year ended December 31, 2022, our operations in Poland represented 2% of our revenues in Dollar terms, before eliminations resulting from consolidation. As of December 31, 2022, our operating business in Poland represented 1% of our total assets, in Dollar terms. As of December 31, 2022, we were a leading provider of building materials in Poland, serving the cement, ready-mix concrete and aggregates markets. As of December 31, 2022, we operated two cement plants (all of them active) and one grinding mill with an installed cement capacity of 3.8 million tons per year. As of December 31, 2022, we also operated 44 ready-mix concrete plants (two were temporarily inactive), six aggregates quarries (all of them active), two distribution centers and two marine terminals in Poland. For the year ended December 31, 2022, cement represented 58%, ready-mix concrete represented 33%, aggregates represented 8% and Urbanization Solutions and our other businesses represented 1% of revenues in Dollar terms from our operations in Poland before eliminations resulting from consolidation.

Industry. Preliminary estimates suggest that total cement consumption in Poland decreased approximately 1% in 2022 from 2021.

Competition. As of December 31, 2022, our primary competitors in the cement, ready-mix concrete and aggregates markets in Poland were Heidelberg, Holcim, CRH, Dyckerhoff and Miebach.

Capital Expenditures. We made capital expenditures of \$19 million in 2020, \$29 million in 2021, and \$33 million in 2022 in our operations in Poland. As of December 31, 2022, we expected to make capital expenditures of \$41 million in our operations in Poland during 2023.

Urbanization Solutions. In Poland, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of admixtures and mortars. These businesses are located across Poland.



Overview. For the year ended December 31, 2022, our operations in Spain represented 2% of our revenues in Dollar terms, before eliminations resulting from consolidation. As of December 31, 2022, our operating business in Spain represented 2% of our total assets, in Dollar terms.

Industry. According to the Spanish Ministry of Industry, total cement consumption in Spain decreased by 1% in 2022 compared to 2021. As of December 31, 2022, cement exports from Spain amounted to 4.1 million tons. In recent years, Spanish cement and clinker export volumes have fluctuated, reflecting the rapid changes in demand in the Mediterranean basin as well as the strength of the Euro and changes in the domestic market. According to the Spanish Ministry of Industry, these total export volumes remained flat in 2020, increased 25% in 2021 and decreased 2% in 2022 compared to 2021.

Competition. According to our estimates, as of December 31, 2022, we were one of the top four producers of clinker and cement in Spain. Competition in the ready-mix concrete industry is intense in large urban areas. The overall high degree of competition in the Spanish ready-mix concrete industry is reflected in the multitude of offerings from a large number of concrete suppliers. We have focused on developing value-added products and attempting to differentiate ourselves in the marketplace. The distribution of ready-mix concrete remains a key component of our business strategy in Spain.

Urbanization Solutions. In Spain, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of mortars and admixtures. These businesses are located across Spain.

Products and Distribution Channels

Cement. For the year ended December 31, 2022, our cement operations represented 64% of revenues for our operations in Spain before eliminations resulting from consolidation in Dollar terms. We offer various types of cement in Spain, targeting specific products to specific markets and users. In 2022, 16% of the domestic sales volume of our main operating subsidiary in Spain consisted of bagged cement, and the remainder of its domestic sales volume consisted of bulk cement, primarily to ready-mix concrete operators, including sales to our other operations in Spain, as well as industrial customers that use cement in their production processes and construction companies.

Ready-Mix Concrete. For the year ended December 31, 2022, our ready-mix concrete operations represented 23% of revenues for our operations in Spain before eliminations resulting from consolidation in Dollar terms. Our ready-mix concrete operations in Spain in 2022 purchased 94% of their cement requirements from our cement operations in Spain and 63% of their aggregates requirements from our aggregates operations in Spain.

Aggregates. For the year ended December 31, 2022, our aggregates operations represented 8% of revenues for our operations in Spain before eliminations resulting from consolidation in Dollar terms.

Urbanization Solutions and Others: For the year ended December 31, 2022, our Urbanization Solutions and other businesses operations represented 5% of revenues for our operations in Spain before eliminations resulting from consolidation in Dollar terms.

Exports. Exports of cement and clinker by our operations in Spain, which represented 29% of our total cement sales volume in Spain for 2022, which increased 8% in 2022 compared to 2021. Of our total exports from Spain in 2022, 58% consisted of gray portland cement and 42% of clinker.

Production Costs. We have improved the efficiency of our operations in Spain by introducing technological improvements that have significantly reduced our energy costs, including the use of alternative fuels, in accordance with our cost reduction efforts. In 2022, we used organic waste, tires and plastics as fuel, achieving a 48% substitution rate for pet coke in our gray and white clinker kilns for the year.

Description of Properties, Plants and Equipment. As of December 31, 2022, our operations in Spain included six cement plants (two were temporarily inactive) located in Spain with an annual installed cement capacity of 7.7 million tons. As of that date, we also had 30 operative distribution centers, including 19 land and 11 marine terminals, 51 ready-mix concrete plants (15 were temporarily inactive), 22 aggregates quarries (eight were temporarily inactive), eight mortar plants and one admixture plant. We estimate that, as of December 31, 2021, the limestone and clay permitted proven and probable reserves of our operations in Spain had an average remaining life of 97 and 50 years, respectively, assuming 2017 to 2021 average annual production levels.

Capital Expenditures. We made capital expenditures of \$22 million in 2020, \$34 million in 2021, and \$27 million in 2022 in our operations in Spain. As of December 31, 2022, we expected to make capital expenditures of \$27 million in our operations in Spain during 2023.

Our Operations in the Philippines

Overview. As of December 31, 2022, on a consolidated basis, CEMEX España indirectly held 100% of CEMEX Asian South East Corporation (“CASE”), which in turn owned 77.9% of the outstanding share capital of CHP. As of December 31, 2022, CHP directly and indirectly owned 100% of our two principal operating subsidiaries in the Philippines, Solid Cement Corporation (“Solid Cement”) and APO Cement Corporation (“APO”). For the year ended December 31, 2022, our operations in the Philippines represented 2% of our revenues before eliminations resulting from consolidation in Dollar terms. As of December 31, 2022, our operations in the Philippines represented 3% of our total assets, in Dollar terms.

As of December 31, 2022, CHP was investing in a new 1.5 million ton integrated cement production line at the Solid Cement Plant located in Luzon, Philippines (the “Solid Cement Plant”) with an estimated total investment of \$371.8 million. Upon completion, this new line should nearly double the capacity of the Solid Cement Plant and would represent a 26% increase in our cement capacity in the Philippines. In October 2018, we entered into principal project agreements with CBMI Construction Co., Ltd (“CBMI”), an affiliate of Sinoma International Engineering Co., Ltd., for the procurement, construction and installation of the new line. On April 25, 2019, Solid Cement held its ceremonial groundbreaking for the new line. Various work was already ongoing, including the mobilization of equipment and site development. The new rotary kiln was lifted into position in January 2021. On December 7, 2021, Solid Cement served a notice of termination with respect to the construction contract with CBMI, which covered the construction and installation of Solid Cement’s new line. Solid Cement’s notice of termination, which applies to one of the principal project agreements with CBMI, was issued due to the delay in construction and installation work. Solid Cement took measures to address contingencies which have arisen as a result of this termination, including engaging replacement contractors for the project. During the first quarter of 2022, Solid Cement entered into contracts with Atlantic Gulf and Pacific Company of Manila, Inc. and Betonbau Phil., Inc. to continue the construction and installation of Solid Cement’s new line. As of December 31, 2022, among the project components completed were the slip form works for the raw meal silo, clinker silos, and cement silos of the new line. CHP estimates that the construction of the new line should be completed by March 2024 and the start of its operations could commence in April 2024.

Industry. According to the Philippine Statistics Authority, Gross Fixed Capital Formation in construction in 2022 was still below pre-COVID-19 pandemic 2019 levels by 12.4%. Although the public sector saw a resilient performance with its 37.2% growth compared to 2019, the private sector, which accounts for more than 60% of gross fixed capital formation in construction, pulled down the overall industry as it was lower by 28.8% in 2022 compared to 2019.

Competition. As of December 31, 2022, our major competitors in the Philippine cement market were Holcim, Republic, Eagle, Northern, Goodfound, Taiheiyō, and Mabuhay.

Description of Properties, Plants and Equipment. As of December 31, 2022, our operations in the Philippines included two cement plants (all of them active) with an annual installed cement capacity of 5.7 million tons, exclusive access to four quarries to supply raw materials to our cement plants, one aggregate quarry (which was temporarily inactive), 19 land distribution centers and six marine distribution terminals. We estimate that, as of December 31, 2021, the limestone and clay permitted proven and probable reserves accessed by our operations in the Philippines had an average remaining life of 174 years for Solid Cement and 36 years for APO, assuming 2017 to 2021 average annual production levels.

Cement. For the year ended December 31, 2022, our cement operations represented 99% of revenues for our operations in the Philippines before eliminations resulting from consolidation in Dollar terms.

Urbanization Solutions and Others: For the year ended December 31, 2022, our Urbanization Solutions and other businesses operations represented 1% of revenues for our operations in Philippines before eliminations resulting from consolidation in Dollar terms.

Capital Expenditures. We made capital expenditures of \$82 million in 2020, \$89 million in 2021, and \$72 million in 2022 in our operations in the Philippines. As of December 31, 2022, we expected to make capital expenditures of \$127 million in our operations in the Philippines during 2023.

Urbanization Solutions. In the Philippines, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted of admixtures. This business is located across the Philippines.

Our Operations in Israel

Overview. We are a leading producer and supplier of raw materials for the construction industry in Israel. In addition to ready-mix concrete and aggregates, we produce a diverse range of building materials and infrastructure products in Israel. As of December 31, 2022, we operated 56 ready-mix concrete plants (all of them active), seven aggregates quarries (all of them active), which includes one sand pit, two concrete products plants and one admixtures plants. For the year ended December 31, 2022, our operations in Israel represented 5% of our revenues before eliminations resulting from consolidation in Dollar terms and 3% of our total assets, in Dollar terms. For the year ended December 31, 2022, ready-mix concrete represented 68%, aggregates represented 21%, Urbanization Solutions and our other businesses represented 11% of revenues in Dollar terms from our operations in Israel before eliminations resulting from consolidation.

Capital Expenditures. We made capital expenditures of \$28 million in 2020, \$45 million in 2021, and \$37 million in 2022 in our operations in Israel. As of December 31, 2022, we expected to make capital expenditures of \$29 million in our operations in Israel during 2023.

Urbanization Solutions. In Israel, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of other concrete products and admixtures, among others. These businesses are located across Israel.

Rest of EMEAA

As of December 31, 2022, our operations in the Rest of EMEAA segment consisted primarily of our operations in the Czech Republic, Croatia, Egypt and the UAE. These operations represented 4% of our revenues, before eliminations resulting from consolidation in Dollar terms, for the year ended December 31, 2022, and 3% of our total assets as of December 31, 2022, in Dollar terms. As of December 31, 2022, we expected to make capital expenditures of 46 million in the Rest of EMEAA segment during 2023.

Our Operations in the Czech Republic

Overview. As of December 31, 2022, we were a leading producer of ready-mix concrete and aggregates in the Czech Republic. We also distribute cement in the Czech Republic. As of December 31, 2022, we operated one cement plant and one grinding mill with annual cement installed capacity of 1.7 million tons, one cement terminal and one admixtures plant in the Czech Republic. As of December 31, 2022, we also operated 71 ready-mix concrete plants (three of which were temporarily inactive), which include three mobile equipment producing concrete and 14 aggregates quarries in the Czech Republic (one was inactive).

Industry. According to the Czech Statistical Office, total construction output in the Czech Republic grew 2.5% year-over-year in 2022 as buildings construction increased by 2.8% while civil engineering was up by 1.7% year-over-year.

According to the Czech Cement Association, total cement consumption in the Czech Republic reached year-over-year growth of 2% in the first half of 2022. According to our estimates, in 2023, ready-mix concrete production in the Czech Republic is estimated to decrease slightly in comparison to 2022.

Competition. As of December 31, 2022, our main competitors in the cement, ready-mix concrete and aggregates markets in the Czech Republic were Heidelberg, Buzzi-Unicem, Holcim, Strabag and Skanska.

Capital Expenditures. We made capital expenditures of \$17 million in 2020, \$26 million in 2021 and \$21 million in 2022, in our operations in the Czech Republic. As of December 31, 2022, we expected to make capital expenditures of \$25 million in our operations in the Czech Republic during 2023.

Urbanization Solutions. In the Czech Republic, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted of admixtures. This business is located in the northeastern region of the Czech Republic.

Our Operations in Croatia

Overview. We were the largest cement producer in Croatia based on installed capacity as of December 31, 2022, according to our estimates. As of December 31, 2022, we had two cement plants (all of them active) in Croatia with an annual cement installed capacity of 2.2 million tons. In 2022, one cement plant was permanently shut down. As of December 31, 2022, we also operated 11 land distribution centers, two marine cement terminals in Croatia, Bosnia and Herzegovina, Serbia and Montenegro, seven ready-mix concrete facilities in Croatia and Bosnia and Herzegovina (all of them active), and one recycling yard in Croatia.

Industry. According to our estimates made as of the date of this report, total cement consumption in Croatia, Bosnia and Herzegovina and Montenegro increased by 1.2% in 2022 compared to 2021.

Competition. As of December 31, 2022, our primary competitors in the cement market in Croatia were Nexe and Holcim.

Capital Expenditures. We made capital expenditures of \$8 million in 2020, \$15 million in 2021, and \$11 million in 2022 in our operations in Croatia. As of December 31, 2022, we expected to make capital expenditures of \$6 million in our operations in Croatia during 2023.

Urbanization Solutions. In Croatia, during the 2022 calendar year, our Urbanization Solutions business for most of the year consisted of pavement services; however, as of December 31, 2022, such services were no longer being provided.

Our Operations in Egypt

Overview. As of December 31, 2022, we operated one cement plant in Egypt with an annual installed cement capacity of 5.4 million tons. This plant is located approximately 280 miles south of Cairo and serves the upper Nile region of Egypt, as well as Cairo and the Delta region, Egypt's main cement market. We estimate that, as of December 31, 2021, the limestone and clay permitted proven and probable reserves of our operations in Egypt had an average remaining life of 23 and 23 years, respectively, assuming 2017 to 2021 average annual production levels. In addition, as of December 31, 2022, we had six ready-mix concrete plants (one was inactive) and three land distribution centers in Egypt, and one admixtures plant. See “—Regulatory Matters and Legal Proceedings—Other Legal Proceedings—Egypt Share Purchase Agreement” for a description of certain legal proceedings relating to the share purchase agreement, signed in November 1999 between CEMEX, S.A.B. de C.V. and state-owned Metallurgical Industries Company, pursuant to which CEMEX, S.A.B. de C.V. acquired a controlling interest in ACC.

Industry. According to the Ministry of Trade and Industry official figures and CEMEX's estimates, based on government data (local and imported cement), the Egyptian market cement consumption increased by 5.4% in 2022 compared to 2021, which was mainly attributed to the governmental construction ban in 2020. As of December 31, 2022, the cement industry in Egypt had a total of 18 cement producers, with an aggregate annual installed cement production capacity of approximately 91 million tons.

Competition. According to the Ministry of Investment official figures, during 2022, Holcim (Egyptian Cement Company), ACC and Heidelberg (Suez Cement, Torah Cement and Helwan Portland Cement) represented approximately 28% of the total cement production in Egypt. Other significant competitors in Egypt are Arabian (La Union), Titan (Alexandria Portland Cement and BeniSuef Cement), Amreyah (InterCement), Sinai (Vicat), South Valley, Nile Valley, El Seweedy, Arish Cement, National Company for Cement (Beni Suef plant), Aswan Medcom, Misr BeniSuef, Al Nahda and Misr Qena Cement Companies, Building Materials Industries Co. and ASEC Cement.

Capital Expenditures. We made capital expenditures of \$8 million in 2020, \$20 million in 2021 and \$16 million in 2022 in our operations in Egypt. As of December 31, 2022, we expected to make capital expenditures of \$11 million in our operations in Egypt during 2023.

Urbanization Solutions. In Egypt, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of admixtures and pavement services. These businesses are located across Egypt.

Our Operations in the UAE

Overview. As of December 31, 2022, CEMEX España held a 49% equity interest (and a 100% economic interest) in all of our main UAE companies: CEMEX Topmix LLC and CEMEX Supermix LLC, ready-mix concrete manufacturing companies, and CEMEX Falcon LLC, which specializes in the production of cement and slag. We are not permitted to have a controlling interest in these companies (UAE Commercial Companies Law requires 51% ownership by UAE nationals). However, through agreements with other shareholders in these companies, we have control over the remaining 51% of the economic benefits in each of the companies. As a result, we own a 100% economic interest in all three companies. As of December 31, 2022, we owned 12 ready-mix concrete plants (two were temporarily inactive), three pugmill plants, one admixture plant and one cement and slag grinding facility in the UAE with an annual installed cement capacity of 1.2 million tons, serving the markets of Dubai and Abu Dhabi as well as neighboring countries such as Oman.

Capital Expenditures. We made capital expenditures of \$1 million in 2020, \$5 million in 2021, and \$7 million in 2022 in our operations in the UAE. As of December 31, 2022, we expected to make capital expenditures of \$4 million in our operations in the UAE during 2023.

Urbanization Solutions. In the UAE, for the year ended December 31, 2023, in terms of relevant revenues, our Urbanization Solutions business consisted of admixtures. This business is located across the UAE.

SCA&C

For the year ended December 31, 2022, our business in the SCA&C region, which included our operations in Colombia, Panama, Caribbean TCL, the Dominican Republic and the Rest of SCA&C segment, as described below, represented 9% of our revenues before eliminations resulting from consolidation in Dollar terms. As of December 31, 2022, our operations in the SCA&C region represented 15% of our total installed capacity and 8% of our total assets, in Dollar terms.

CLH is the main holding company for CEMEX's operations in Colombia, Panama, Costa Rica, Guatemala, Nicaragua and El Salvador.

On December 29, 2021, through certain of our subsidiaries, we signed an agreement for the sale of our operations in Costa Rica and El Salvador with certain subsidiaries of Cementos Progreso Holdings, S.L., for a total consideration of \$335 million, which closed in the third quarter of 2022. The proceeds from this sale were mainly used to reduce debt. Our operations of these assets in Costa Rica and El Salvador for the years ended December 31, 2020, 2021 and 2022 are reported in the statements of operations, net of income tax, as part of the single line item "Discontinued operations."

Our Operations in Colombia

Overview. As of December 31, 2022, CEMEX Colombia was the second-largest cement producer in Colombia, based on installed cement capacity of 4.1 million tons per year as of December 31, 2022. For the year ended December 31, 2022, our operations in Colombia represented 2% of our revenues before eliminations resulting from consolidation in Dollar terms. As of December 31, 2022, our operating business in Colombia represented 3% of our total assets, in Dollar terms.

CEMEX Colombia has a significant market share in the cement and ready-mix concrete market in the "Urban Triangle" of Colombia comprising the cities of Bogotá, Medellín and Cali. During 2022, these three metropolitan areas accounted for approximately 37.7% of Colombia's cement consumption. CEMEX Colombia's Ibagué plant, which is strategically located in the Urban Triangle, is CEMEX Colombia's largest plant as of December 31, 2022. CEMEX Colombia, through its Cúcuta plant and Clemencia grinding facility, is also an active participant in Colombia's northeastern and coastal markets.

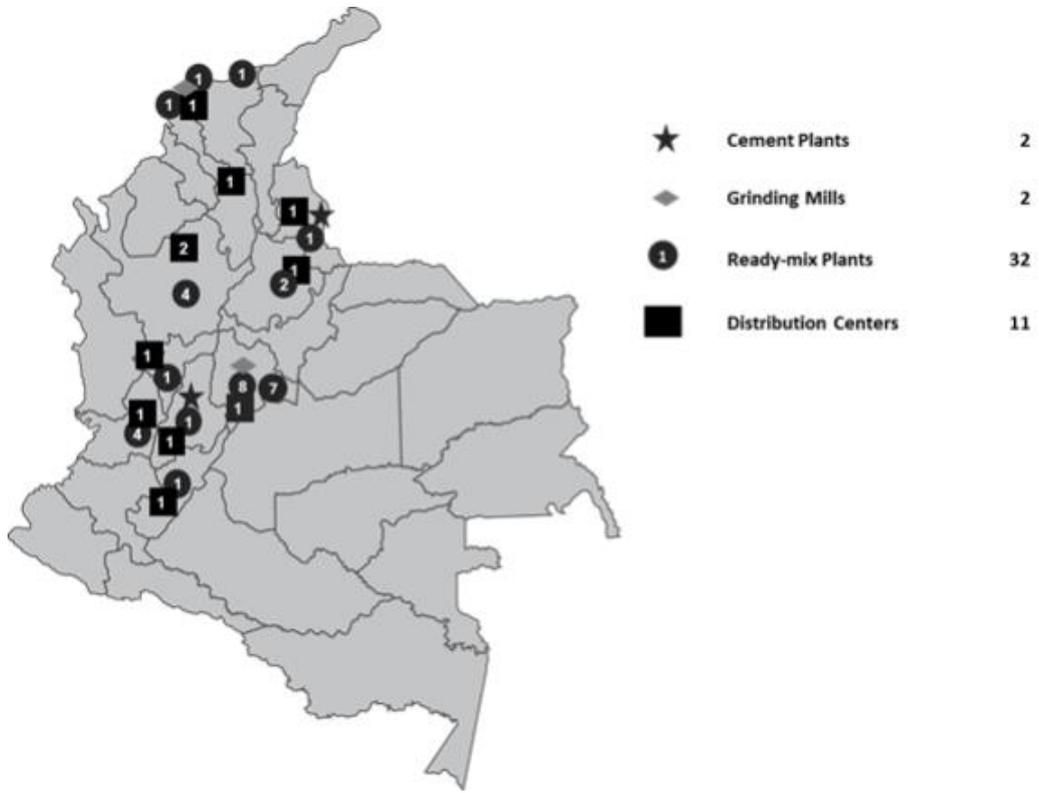
Industry. According to our estimates made as of the date of this report, the installed capacity for cement in Colombia was 21.2 million tons in 2022. According to the Colombian National Statistical Administrative Department (*Departamento Administrativo Nacional de Estadística*), total cement consumption in Colombia reached 13.5 million tons during 2022, an increase of 4% from 2021, while cement exports from Colombia during 2022 reached 1.05 million tons (according to the global trade and market research platform, SICEX). We estimate that as of December 31, 2022, close to 65% of cement in Colombia was consumed by the housing and self-construction sector, while the infrastructure sector accounted for approximately 28% of total cement consumption and has been growing in recent years up to December 31, 2022. The other construction segments in Colombia, including the formal housing and commercial sectors, account for the balance of cement consumption in Colombia.

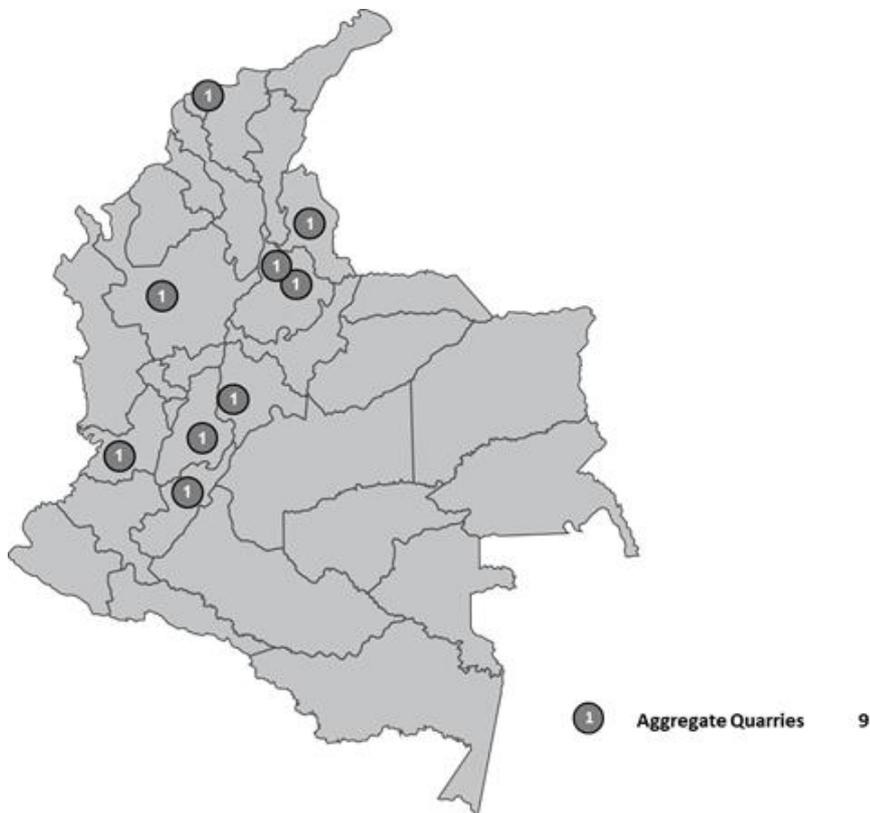
Competition. As of December 31, 2022, our two largest competitors in Colombia were Cementos Argos, which has established a leading position in the Colombian Caribbean coast, Antioquia and Southwest region markets, and Holcim in the central region of the country. We estimate that as of December 31, 2022 there were 13 other local and regional competitors in Colombia.

The ready-mix concrete industry in Colombia was fairly consolidated with the top three producers accounting for approximately 66.3% of the market as of December 31, 2022. CEMEX Colombia was the second-largest ready-mix concrete producer as of December 31, 2022. The first and third largest producers were Cementos Argos and Holcim Colombia, respectively.

The aggregates market in Colombia is highly fragmented and is dominated by the informal market. Approximately 95% of the aggregates market in Colombia was comprised of small independent producers as of December 31, 2022.

Urbanization Solutions. In Colombia, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of energy, multiproducts and admixtures, among others. These businesses are located across Colombia.





Products and Distribution Channels

Cement. For the year ended December 31, 2022, our cement operations represented 53% of revenues for our operations in Colombia before eliminations resulting from consolidation in Dollar terms.

Ready-Mix Concrete. For the year ended December 31, 2022, our ready-mix concrete operations represented 25% of revenues for our operations in Colombia before eliminations resulting from consolidation in Dollar terms.

Aggregates. For the year ended December 31, 2022, our aggregates operations represented 7% of revenues for our operations in Colombia before eliminations resulting from consolidation in Dollar terms.

Urbanization Solutions and Others: For the year ended December 31, 2022, our Urbanization Solutions and other businesses operations represented 15% of revenues for our operations in Colombia before eliminations resulting from consolidation in Dollar terms.

Description of Properties, Plants and Equipment. As of December 31, 2022, CEMEX Colombia owned two operating cement plants and two cement grinding mills, having a total installed cement grinding capacity of 4.1 million tons. In 2022, we replaced 28.6% of our total fuel consumed in CEMEX Colombia with alternative fuels, and we had an internal electricity generating capacity of approximately 37 MW as of December 31, 2022. We estimate that, as of December 31, 2021, the limestone and clay permitted proven and probable reserves of our operations in Colombia had an average remaining life of 57 and 780 years, respectively, assuming 2017 to 2021 average annual production levels. The operating licenses for quarries in Colombia are renewed every 30 years; assuming renewal of such licenses, we estimate having sufficient cement raw materials reserves for our operations in Colombia for over 59 years assuming 2017 to 2021 average annual cement raw materials production levels. Immaterial volumes extracted from the quarry located in Maceo during its trial period and for the Maceo Plant road construction are excluded from this calculation. As of December 31, 2022, CEMEX Colombia also operated 11 distribution centers, one mortar plant, one admixtures plant, 32 ready-mix concrete plants (all of them active), nine aggregates operations (eight were temporarily inactive) and one adhesives plant.

CEMEX Colombia continues its progress on the Maceo Plant Project, with 90% and 26% of the plant and road portions completed as of the year ended December 31, 2022, respectively. We expect the Maceo Plant Project to enter into commission in the second half of 2023. See “—Regulatory Matters and Legal Proceedings—Regulatory Matters and Legal Proceedings—Other Legal Proceedings—Maceo, Colombia—Legal Proceedings in Colombia” for the status of that project.

Capital Expenditures. We made capital expenditures of \$14 million in 2020, \$27 million in 2021 and \$45 million in 2022 in our operations in Colombia. As of December 31, 2022, we expected to make capital expenditures of \$77 million in our operations in Colombia during 2023.

Our Operations in Panama

Overview. For the year ended December 31, 2022, our operations in Panama represented 1% of our revenues before eliminations resulting from consolidation in Dollar terms. For the year ended December 31, 2022, cement represented 71%, ready-mix concrete represented 16%, aggregates represented 4%, Urbanization Solutions and other businesses represented 9% of our revenues, respectively, in Dollar terms from our operations in Panama before eliminations resulting from consolidation. As of December 31, 2022, our operating business in Panama represented 1% of our total assets, in Dollar terms.

Industry. As of the date of this report, we estimate that approximately 0.99 million cubic meters of ready-mix concrete were sold in Panama during 2022. Cement consumption in Panama increased 8% in 2022 compared to 2021, mainly due to increased consumption in the housing sector and due to the reactivation of the Subway Line 3 project. However, cement consumption in Panama was still approximately 19% lower in 2022 when compared to 2019, mainly due to high residence inventories and an increasing level of unoccupied industrial and commercial buildings that have affected the organic growth of cement consumption.

Competition. As of December 31, 2022, the cement industry in Panama included three cement producers: Cemento Bayano, Argos Panamá, an affiliate of Cementos Argos, and Cemento Chagres, a company that started operations during the second half of 2020 and is 100% owned by Panamanian investors.

Description of Properties, Plants and Equipment. As of December 31, 2022, our operations in Panama through Cemento Bayano operated one cement plant in Panama, with an installed cement capacity of 1.2 million tons and clinker capacity of 1.6 million tons. As of that date, Cemento Bayano also operated six ready-mix concrete plants (one was temporarily inactive), one admixtures plant and three distribution centers, including one location at the cement plant.

Capital Expenditures. We made capital expenditures of \$3 million in 2020, \$9 million in 2021 and \$19 million in 2022 in our operations in Panama. As of the date of this report, we expect to make capital expenditures of \$8 million in our operations in Panama during 2023.

Urbanization Solutions. In Panama, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of admixtures, among others. These businesses are located across Panama.

Our Operations in Caribbean TCL

We started consolidating TCL and its subsidiaries for financial reporting purposes on February 1, 2017. In March 2017, TCL de-listed from the Jamaica and Barbados stock exchanges.

As of December 31, 2022, Caribbean TCL was one of the leading producers and marketers of cement and ready-mix concrete products in the Caribbean's construction sector, with operations strategically located in Jamaica, Trinidad and Tobago, Guyana and Barbados. For the year ended December 31, 2022, our operations in Caribbean TCL represented 2% of our revenues before eliminations resulting from consolidation in Dollar terms. As of December 31, 2022, our operations in Caribbean TCL represented 2% of our total assets, in Dollar terms. For the year ended December 31, 2022, cement represented 95%, ready-mix concrete represented 1%, aggregates represented 2%, Urbanization Solutions and our other businesses represented 2% of our revenues, respectively, in Dollar terms from our operations in Caribbean TCL before eliminations resulting from consolidation.

As of December 31, 2022, our focus with respect to Caribbean TCL will continue on attempting to maximize further synergies from TCL's integration with us. As of December 31, 2022, we intended to improve the productivity and capacity of our Caribbean TCL's cement plants, continue the vertical integration of Caribbean TCL's business, invest in developing its employees and offer strong value products to our customers in the region and elsewhere.

Capital Expenditures. We made capital expenditures of \$16 million in 2020, \$22 million in 2021, and \$16 million in 2022 in Caribbean TCL. As of December 31, 2022, we expected to make capital expenditures of \$20 million during 2023 in Caribbean TCL.

Our Operations in Trinidad & Tobago

Description of Properties, Plants and Equipment. As of December 31, 2022, TCL operated 1 cement plant in Trinidad & Tobago, with a total annual cement installed capacity of 1.0 million tons. As of December 31, 2022, TCL had 2 operational ready-mix concrete plants (one was temporarily inactive), three aggregates quarries (all of them active), four land distribution centers and one marine terminal.

Urbanization Solutions. In Trinidad & Tobago, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of admixtures.

Our TCL Operations in Jamaica

Overview. As of December 31, 2022, we held an indirect controlling position mainly through TCL in CCCL.

Description of Properties, Plants and Equipment. As of December 31, 2022, CCCL operated one cement plant in Jamaica, with a total cement installed capacity of 1.5 million tons. As of December 31, 2022, CCCL had four land distribution centers, including one location at the cement plant, and one marine terminal.

Our Operations in Barbados

Overview. As of December 31, 2022, through TCL, we held an indirect controlling position in Arawak Cement Company Limited ("Arawak") in Barbados.

Description of Properties, Plants and Equipment. As of December 31, 2022, Arawak operated one cement plant in Barbados, with a total cement installed capacity of 0.4 million tons. As of that date, Arawak had one ready-mix concrete plant (temporarily inactive), one land distribution center and one marine terminal.

Urbanization Solutions. In Barbados, for the year ended December 31, 2022, we did not have any Urbanization Solutions business.

Our Operations in the Dominican Republic

Overview. As of December 31, 2022, CEMEX Dominicana, S.A.'s ("CEMEX Dominicana") sales network covered the country's main consumption areas, which are Santo Domingo, Santiago de los Caballeros, La Altagracia, San Cristobal and San Pedro de Macoris. On May 8, 2000, CEMEX Dominicana entered into a lease agreement with the government of the Dominican Republic related to the exploitation of a gypsum mine located at Las Salinas, Barahona, which has enabled CEMEX Dominicana to supply local and regional gypsum requirements. The lease agreement expires on May 8, 2025 and may be extended by the parties. For the year ended December 31, 2022, our operations in the Dominican Republic represented 2% of our revenues before eliminations resulting from consolidation, in Dollar terms. As of December 31, 2022, our operations in the Dominican Republic represented 1% of our total assets, in Dollar terms. For the year ended December 31, 2022, cement represented 79%, ready-mix concrete represented 6%, Urbanization Solutions and other businesses represented 15% of our revenues, respectively, in Dollar terms from our operations in the Dominican Republic before eliminations resulting from consolidation.

Industry. According to figures from the Dominican Cement Producers Association (*Asociación Dominicana de Productores de Cemento Portland*), cement consumption in the Dominican Republic reached 5.5 million tons in 2022.

Competition. As of December 31, 2022, our principal competitors in the Dominican Republic were: Cementos Cibao, a local producer; Domicem, a mixed Italian/local cement producer; Cementos Argos, a grinding operation of a Colombian cement producer; Cementos Santo Domingo, a cement grinding partnership between a local investor and Cementos La Union from Spain; Cementos Panam, a local cement producer; and Cementos Andino, a grinding operation; and a partially constructed cement kiln of a Colombian cement producer, currently inactive.

Description of Properties, Plants and Equipment. As of December 31, 2022, CEMEX Dominicana operated one cement plant in the Dominican Republic, with an installed cement capacity of 2.4 million tons per year. As of that date, CEMEX Dominicana also owned five ready-mix concrete plants (one was temporarily inactive), one aggregates quarry (currently inactive), two land distribution centers and two leased marine terminals.

Capital Expenditures. We made capital expenditures of \$2 million in 2020, \$15 million in 2021, and \$18 million in 2022 in our operations in the Dominican Republic. As of December 31, 2022, we expected to make capital expenditures of \$15 million in our operations in the Dominican Republic during 2023.

Urbanization Solutions. In the Dominican Republic, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of multiproducts, among others. This business is located across the country.

Rest of SCA&C

As of December 31, 2022, our operations in the Rest of SCA&C segment consisted primarily of our operations and activities in Peru, Puerto Rico, Nicaragua, Jamaica, the Caribbean and Guatemala, excluding our Caribbean TCL segment. These operations represented 2% of our revenues, in Dollar terms, before eliminations resulting from consolidation. As of December 31, 2022, our business in the Rest of SCA&C segment represented 1% of our total assets, in Dollar terms.

Our Operations in Puerto Rico

Overview. As of December 31, 2022, CEMEX de Puerto Rico, Inc. (“CEMEX Puerto Rico”) was our main subsidiary in Puerto Rico.

Industry. In 2021, cement consumption in Puerto Rico reached 0.6 million tons according to the Puerto Rico Economic Development Bank.

Competition. The cement industry in Puerto Rico in 2022 was comprised of two cement companies: CEMEX Puerto Rico and Cementos Argos (formerly Antilles Cement Co (Marine Terminal) and San Juan Cement Co (Cement Plant)).

Description of Properties, Plants and Equipment. As of December 31, 2022, CEMEX Puerto Rico operated one grinding mill, with an installed cement capacity of 1.3 million tons per year. As of that date, CEMEX Puerto Rico also operated four ready-mix concrete plants (three were temporarily inactive), two land distribution centers and one marine terminal used for fly ash. As of that date, CEMEX Puerto Rico also owned one aggregates quarry, which is currently inactive.

Capital Expenditures. We made capital expenditures of \$0.2 million in 2020, \$2 million in 2021, and \$3 million in 2022 in our operations in Puerto Rico. As of December 31, 2022, we expected to make capital expenditures of \$3 million in our operations in Puerto Rico during 2023.

Urbanization Solutions. In Puerto Rico, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of lime, among others. These businesses are located across Puerto Rico.

Our Operations in Nicaragua

Overview. As of December 31, 2022, CEMEX Colombia and Corporación Cementera Latinoamericana, S.L.U., both CLH subsidiaries, indirectly and directly owned 100% of CEMEX Nicaragua, S.A. (“CEMEX Nicaragua”), our operating subsidiary in Nicaragua. During the fourth quarter of 2021, CEMEX Costa Rica sold 99% of its shares in CEMEX Nicaragua to CEMEX Colombia, and 1% of its shares to Corporación Cementera Latinoamericana, S.L.U.

Industry. We estimate that 0.89 million tons of cement, 0.14 million cubic meters of ready-mix concrete and 4.9 million tons of aggregates were sold in Nicaragua during 2022.

Competition. As of December 31, 2022, two market participants compete in the Nicaraguan cement industry, CEMEX and Holcim.

Description of Properties, Plants and Equipment. As of December 31, 2022, we leased and operated one cement plant (currently active) and owned one grinding mill with a total installed cement capacity of 0.7 million tons, six ready-mix concrete plants (two were temporarily inactive) and two distribution centers in Nicaragua. We also had three aggregate quarries (all of them inactive). Since March 2003, CEMEX Nicaragua has also leased a 100,000 ton milling plant in Managua, which has been used exclusively for pet coke milling.

Capital Expenditures. We made capital expenditures of \$3 million in 2020, \$5 million in 2021 and \$4 million in 2022 in our operations in Nicaragua. As of December 31, 2022, we expected to make capital expenditures of \$7 million in our operations in Nicaragua during 2023.

Urbanization Solutions. In Nicaragua, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of multiproducts. These businesses are located across Nicaragua.

Our Operations in Guatemala

Overview. As of December 31, 2022, CLH indirectly owned 100% of CEMEX Guatemala, our main operating subsidiary in Guatemala.

Industry. We estimate that 5.01 million tons of cement, .099 million cubic meters of ready-mix concrete and 28.9 million tons of aggregate were sold in Guatemala during 2022. National cement consumption in Guatemala increased 2% against 2021, mainly driven by the reactivation of the formal construction sector (*e.g.*, vertical housing and industrial projects in metropolitan areas) and a steady consumption from the self-building sector.

Competition. As of December 31, 2022, 11 market participants compete in the Guatemalan cement industry, (CEMEX, CEMPRO, REGIONAL, Wan Peng, Bonanza, Robusto, Mayacem, Stark, CEMGUA, Argos and Ultracem).

Description of Properties, Plants and Equipment. As of December 31, 2022, we owned and operated one cement grinding mill in Guatemala with an installed cement capacity of 0.6 million tons per year. As of that date, we also owned and operated five land distribution centers (including one location at the cement plant), one clinker dome close to our leased marine terminal in the southern part of the country and three ready-mix concrete plants (two were temporarily inactive).

Capital Expenditures. We made capital expenditures of \$1 million in 2020, \$3 million in 2021 and \$10 million in 2022 in Guatemala. As of December 31, 2022, we expected to make capital expenditures of \$16 million in our operations in Guatemala during 2023.

Urbanization Solutions. In Guatemala, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of multiproducts, among others. These businesses are located across Guatemala.

Our Operations in the Rest of SCA&C

Overview. As of December 31, 2022, we held a non-controlling position in National Cement Ltd. in the Cayman Islands, Maxcem Bermuda Ltd. in Bermuda and Societe des Ciments Antillais, a company with cement operations in Guadalupe and Martinique. As of December 31, 2022, CEMEX España additionally indirectly held a 100% interest in CEMEX Jamaica Limited, which operates one calcined limestone plant in Jamaica with a capacity of 120,000 tons per year and one hydrate line with a capacity of 4,800 tons per year.

As of December 31, 2022, we operated a network of five marine terminals in these countries, which facilitated exports from our operations in Mexico, the Dominican Republic and Puerto Rico. Three of our marine terminals are in the Bahamas. As of December 31, 2022, we also had a non-controlling interest in two other terminals, one in Bermuda and one in the Cayman Islands. We also had three distribution centers in Guyana, Haiti and Peru, and one ready-mix plant (temporarily inactive) in Guyana.

Capital Expenditures. In our operations in the Rest of SCA&C segment, we made capital expenditures of \$3 million in 2020, \$4 million in 2021 and \$1 million in 2022. As of December 31, 2022, we expected to make capital expenditures of \$4 million in our operations in other SCA&C countries during 2023.

Urbanization Solutions. In Jamaica, for the year ended December 31, 2022, in terms of relevant revenues, our Urbanization Solutions business consisted primarily of lime. This business serves specific customers.

Our Trading Operations

In 2022, we traded 11.8 million tons of cementitious and non-cementitious materials, in 92 countries, including 9.6 million tons of cement and clinker and 2.3 million tons of cementitious and other materials. In addition, we traded 4.1 million tons of coal and pet coke. Slightly more than 4.5 million tons of the traded cement and clinker consisted of exports from our operations in Mexico, Croatia, Spain, Germany, Trinidad and Tobago, Barbados, and Panama, among others. Slightly above 5.0 million tons remaining were purchased from third parties in countries such as Vietnam, Turkey, Saudi Arabia, Spain, Greece, and Algeria. In 2022, we traded 1.6 million tons of granulated blast furnace slag, a non-clinker cementitious material, and 0.6 million tons of other products. This information does not include discontinued operations. Our trading network enables us to maximize the capacity utilization of our facilities worldwide while reducing our exposure to the inherent cyclicality of the cement industry. We are generally able to distribute excess capacity to regions around the world where there is demand. In addition, we believe that our worldwide network of strategically located marine terminals allows us to coordinate maritime logistics on a global basis and minimize transportation expenses. Our trading operations also enable us to explore new markets without significant initial capital expenditure.

Freight rates, which account for a large share of the total import supply cost, have been subject to significant volatility in recent years. We estimate, however, that our trading operations have obtained significant savings by contracting maritime transportation in due time and by using our own and chartered fleets, which transported more than 66% of our coal, petcoke, cement and clinker traded volume during 2022.

In addition, we provide freight service to third parties, which allows us to generate additional revenues.

Our Cement and Grinding Plants

The following table provides a summary of our cement and grinding plants, including location, used capacity, including grinding mill production, and years of operation as of and for the year ended December 31, 2022:

<u>Location</u>	<u>Used Capacity</u>	<u>Years of Operation (1)</u>
Atotonilco, Hidalgo, México	1,273,451	64
Barrientos, Estado de México, México	684,659	78
Ensenada, Baja California, México	485,731	47
Guadalajara, Jalisco, México	724,113	49
CPN, Sonora, México	539,521	42
Hidalgo, Nuevo León, México	98,766	117
Huichapan, Hidalgo, México	3,197,390	38
Mérida, Yucatán, México	822,885	69
Monterrey, Nuevo León, México	1,380,789	103
Tamuín, San Luis Potosí, México	1,584,488	58
Tepeaca, Puebla, México	2,557,891	28
Torreón, Coahuila, México	1,064,470	56
Valles, San Luis Potosí, México	398,722	57
Yaqui, Sonora, México	2,064,966	33
Zapotiltic, Jalisco, México	1,645,254	55
Balcones, TX, United States	1,684,912	42
Brooksville, FL (North), United States	0	47
Brooksville, FL (South), United States	1,135,269	35
Clinchfield, GA, United States	579,409	48
Demopolis, AL, United States	654,217	45
Knoxville, TN, United States	593,332	43
Miami, FL, United States	893,635	64
Lyons, CO, United States	352,287	42
Victorville, CA, United States	2,639,782	57
Wampum, PA, United States	0	57
Rugby, United Kingdom	1,204,643	23
Ferriby, United Kingdom	0	56
Rudersdorf, Germany	2,054,731	56
Alcanar, Spain	787,064	54
Castillejo, Spain	493,128	111
Lloseta, Spain	0	55
Morata, Spain	370,140	90
San Vicente, Spain	832,228	47
Gador, Spain	0	46
Chelm, Poland	1,480,797	62
Rudniki, Poland	803,916	57
Prachovice, Czech Republic	867,886	68
Juraj, Croatia	1,073,112	110
Kajo, Croatia	248,072	118
APO, Philippines	3,148,538	24
Solid Cement, Philippines	1,376,181	29
Assiut, Egypt	3,876,686	36
Falcon, United Arab Emirates	360,122	15
Detmarovice, Czech Rep	143,221	19
Eisenhüttenstadt, Germany	255,153	70
Gdynia, Poland	193,308	22
Tilbury, United Kingdom	538,261	14
Cucuta, Colombia	257,917	39
Ibagué, Colombia	2,210,670	30
Calzada Larga, Panama	589,084	45
Claxton Bay, Trinidad y Tobago	707,088	69
Rockport, Jamaica	960,519	71
St. Lucy, Barbados	184,939	39
San Pedro de Macorís, Dominican Republic	1,913,474	32
San Rafael del Sur, Nicaragua ⁽²⁾	373,308	80
Ponce, Puerto Rico	296,908	32
Clemencia, Colombia	197,214	9
Santa Rosa, Colombia	481,633	40
Arizona, Guatemala	564,333	17
Managua, Nicaragua	205,093	7

- (1) Approximate.
- (2) Leased.

For the aggregate installed cement production capacity of our cement plants by region, see “Item 4—Information on the Company—Business Overview.”

We have insurance coverage for our cement plants, which we believe is sufficient and in line with industry practices. However, in some instances, our insurance coverage may not be sufficient to cover all of our potential unforeseen losses and liabilities. In addition, our insurance coverage may not cover all the risks to which our cement plants may be exposed. See “Risk Factors—Risks Relating to Our Business—Our insurance coverage may not cover all the risks to which we may be exposed.”

Regulatory Matters and Legal Proceedings

A description of material regulatory matters and legal proceedings affecting us as of December 31, 2022 is provided below. Materiality is tested at a CEMEX, S.A.B. de C.V. consolidated level. See “Recent Developments—Recent Developments Relating to Our Regulatory Matters and Legal Proceedings” for more information.

Antitrust Proceedings

Polish Antitrust Investigation

On January 2, 2007, CEMEX Polska Sp. Z.O.O. (“CEMEX Polska”) received a notification from the Polish Competition and Consumer Protection Office (the “Protection Office”) informing it of the formal initiation of an antitrust proceeding against all cement producers in Poland, including CEMEX Polska and another of our indirect subsidiaries in Poland. The notification alleged that there was an agreement between all cement producers in Poland regarding prices and other sales conditions for cement, an agreed division of the market with respect to the sale and production of cement, and the exchange of confidential information, all of which limited competition in the Polish market with respect to the production and sale of cement. On December 9, 2009, the Protection Office delivered to CEMEX Polska its decision against Polish cement producers related to an investigation which covered a period from 1998 to 2006. The decision imposed fines on a number of Polish cement producers, including CEMEX Polska. The fine imposed on CEMEX Polska was Polish Zloty 115.56 million (\$26.39 million as of December 31, 2022, based on an exchange rate of Polish Zloty 4.3795 to \$1.00), which was 10% of CEMEX Polska’s total revenue in 2008. CEMEX Polska disagreed with the decision, denied that it committed the practices alleged by the Protection Office and, therefore, on December 23, 2009, CEMEX Polska filed an appeal before the Polish Court of Competition and Consumer Protection in Warsaw (the “First Instance Court”). After a series of hearings, on December 13, 2013, the First Instance Court issued its judgment in regard to the appeals filed by CEMEX Polska and other cement producers, which were previously combined into a joint appeal. The First Instance Court reduced the penalty imposed on CEMEX Polska to Polish Zloty 93.89 million (\$21.44 million as of December 31, 2022, based on an exchange rate of Polish Zloty 4.3795 to \$1.00), which was equal to 8.125% of CEMEX Polska’s revenue in 2008. On May 8, 2014, CEMEX Polska filed an appeal against the First Instance Court judgment before the Appeals Court of Warsaw. On March 27, 2018, after different hearings, the Appeals Court of Warsaw issued its final judgment reducing the fine imposed upon CEMEX Polska to Polish Zloty 69.4 million (\$15.85 million as of December 31, 2022, based on an exchange rate of Polish Zloty 4.3795 to \$1.00). This fine, which was equal to 6% of CEMEX Polska’s revenue in 2008, was paid. On November 19, 2018, CEMEX Polska filed before the Polish Supreme Court an extraordinary, narrow based cassation appeal against the Appeals Court of Warsaw’s judgment specifically seeking the reduction of the imposed fine. On July 29, 2020, the Polish Supreme Court rendered a judgment cancelling the Appeals Court of Warsaw’s decision with respect to the cement cartel process as it applied to CEMEX Polska and four other cement producers. The cancellation was based on arguments raised in cassation regarding the calculation of penalties and the time at which the alleged agreement between the cement producers actually ended. Furthermore, the fine paid by CEMEX Polska equal to Polish Zloty 69.4 million (\$15.85 million as of December 31, 2022, based on an exchange rate of Polish Zloty 4.3795 to \$1.00) was returned to CEMEX Polska on January 7, 2021. On March 9, 2021, CEMEX Polska requested the Protection Office to pay CEMEX Polska interest over the amount of the fine returned to CEMEX Polska, for the period going from April 9, 2018 (the date of payment of the fine) to January 7, 2021 (the date on which the fine was returned). The Protection Office has rejected to pay the interests in its response to CEMEX Polska’s request.

Following the judgment issued by the Polish Supreme Court, the proceeding was referred again to the Appeals Court of Warsaw. On July 29, 2020, the Appeals Court of Warsaw, due to procedural reasons, cancelled the judgment of the First Instance Court issued on December 13, 2013, against 5 producers, including CEMEX Polska, and referred the case to re-examination by the District Court in Warsaw, which will now serve as the court of first instance. On January 10, 2022, an appeal with the Supreme Court was filed by CEMEX Polska against the May 21, 2021 judgment of the Appeals Court. The appeal of CEMEX Polska concentrates on the wrongful appointment of judges of the Supreme Court and selection of judges of the Appeals Court. The Protection Office has also filed an appeal with the Supreme Court against the last judgment of the Appeals Court, demanding that the Appeals Court conduct further proceedings, instead of the District Court in Warsaw. The new trial case is expected to last three to five years, depending on the priority given to it by the courts adjudicating the case.

As of December 31, 2022, given that the case will be re-examined, at this stage we are not able to assess if CEMEX Polska would receive an adverse resolution that could lead to any fines, penalties or remedies against our operations in Poland, but while we believe an adverse resolution is not probable, if adversely resolved, we do not expect that any fines, penalties or remedies would have a material adverse effect on our results of operations, liquidity or financial condition.

See “Recent Developments—Recent Developments Relating to Our Regulatory Matters and Legal Proceedings—Antitrust Proceedings—Polish Antitrust Investigation.”

Antitrust Cases in Georgia and South Carolina

On July 24, 2017, two ready-mix concrete producers filed a lawsuit in a U.S. Federal Court in the state of Georgia against certain subsidiaries of CEMEX in the U.S. and other companies alleging customer allocation and price fixing in both the ready-mix concrete and cement markets in the coastal Georgia and southeastern coastal South Carolina areas. In addition, on January 22, 2020, new plaintiffs who were the prior owners of a ready-mix concrete producer, and the concrete producer, filed a lawsuit in the same court against the same subsidiaries of CEMEX making substantially similar allegations as the suit filed on July 24, 2017. As CEMEX does not participate in the ready-mix concrete market in these areas, the lawsuits do not allege any improper actions by CEMEX with respect to ready-mix concrete. On October 2, 2017, CEMEX filed a motion to dismiss the 2017 lawsuit. This motion to dismiss was denied on August 21, 2018, and, as a result, CEMEX will continue to defend the allegations. In response to a request to stay the proceedings made in the first quarter of 2021 by the United States Department of Justice, the lawsuit filed on July 24, 2017, was administratively closed. On March 31, 2021, a motion to dismiss the lawsuit filed on January 22, 2020 was granted with leave to file an amended complaint by the concrete producer plaintiff within 21 days following entry of the order to dismiss. The claims of the prior owners were dismissed. In April 2021, the concrete producer in the January 2020 lawsuit voluntarily dismissed its claims, which effectively terminated the lawsuit. On October 17, 2022, in respect to a motion by the plaintiffs, an order was entered in the July 2017 lawsuit, administratively reopening the July 2017 lawsuit to allow for limited discovery to proceed through February 17, 2023. As of December 31, 2022, at this stage of the July 2017 lawsuit, while we cannot assess with certainty the likelihood of an adverse result in this lawsuit, we believe a final adverse resolution to this lawsuit is not probable; and, if adversely resolved, we believe an adverse resolution should not have a material adverse impact on our results of operations, liquidity and financial condition.

Antitrust Investigation in Colombia

On September 5, 2013, CEMEX Colombia was notified of Resolution No. 49141 dated August 21, 2013, issued by the Colombian Superintendency of Industry and Commerce (Superintendencia de Industria y Comercio) (“SIC”) pursuant to which the SIC opened an investigation and issued a statement of objections (pliego de cargos) against five cement companies and fourteen directors of those companies, including CEMEX Colombia, for alleged anti-competitive practices. On December 11, 2017, the SIC’s Chief Superintendent decided to impose a sanction against CEMEX Colombia, two other cement companies and six natural persons, for entering into an agreement to fix gray cement prices in Colombia. The fines imposed upon CEMEX Colombia, which were paid on January 5, 2018, amounted to \$73.77 billion Colombian Pesos (\$15.23 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00). CEMEX Colombia decided not to file a reconsideration request, and, instead, on June 7, 2018 it filed an annulment and reestablishment of right claim (acción de nulidad y restablecimiento de derecho) before the Administrative Court (Tribunal Contencioso Administrativo) requesting that the charges brought forth by the SIC be annulled and that the restitution is made to CEMEX Colombia of the fine it had paid, with any

applicable adjustments as provided by Colombian Law. This claim could take up to six years to be resolved. As of December 31, 2022, we are not able to assess the likelihood of an adverse result of this matter, but if such matter is resolved adversely to us, and considering that the fines were paid in 2018, such adverse resolution should not have a material adverse impact on our results of operations, liquidity, and financial condition.

Colombian Class Action Lawsuit

On August 2020, a class action lawsuit (Acción Popular) (the “Colombian Class Action”) was filed with a Circuit Civil Court in Colombia against CEMEX Colombia and other gray portland cement market participants (the “Colombian Class Action Defendants”). The lawsuit sought compensation for damages arising from alleged cartel actions for which the SIC fined the Colombian Class Action Defendants in December 2017. The lawsuit claimed that the Colombian Class Action Defendants caused damages to all consumers of gray portland cement in Colombia during the period of 2010 to 2012. The plaintiff’s lawsuit claimed that the Colombian Class Action Defendants should be ordered to pay damages due to the higher price set on gray portland cement. The plaintiff also claimed that this amount should be indexed since 2013. The plaintiff’s arbitrary calculation of the total alleged damages caused by the Colombian Class Action Defendants was \$1.32 trillion Colombian Pesos (\$272.6 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00). The Circuit Civil Court initially dismissed the Colombian Class Action, and the plaintiff filed an appeal, which, on April 9, 2021, was resolved by the Superior Court of Bogotá, reversing the decision by the Circuit Civil Court and ordering to review the admission of the claim again. On May 14, 2021, the Circuit Civil Court admitted the claim. CEMEX Colombia subsequently filed an appeal against the admission of the claim, and on May 11, 2022, the Circuit Civil Court in Colombia issued a ruling in favor of CEMEX Colombia, dismissing the proceeding. The plaintiff appealed this decision on May 16, 2022, and, on May 23, 2022, CEMEX Colombia requested the Circuit Civil Court to ratify its decision to dismiss. Consequently, on July 11, 2022, the Circuit Civil Court ratified its decision to dismiss the case and subsequently sent the docket of the proceeding to the Superior Court of Bogota. The Superior Court of Bogota confirmed the dismissal on August 24, 2022. The plaintiff has six months since the confirmation of the dismissal to file an Acción de Tutela against the confirmation of the dismissal. As of December 31, 2022, we believe a final adverse resolution in this matter is not probable, but if such matter is resolved adversely to us, such adverse resolution should not have a material adverse impact on our results of operations, liquidity and financial condition.

Environmental Matters

In the ordinary course of business, we are subject to a broad range of environmental laws and regulations in each of the jurisdictions in which we operate. These laws and regulations impose increasingly stringent environmental protection standards regarding, among other things, air emissions, wastewater discharges, the use and handling of hazardous waste or materials, waste disposal practices and the remediation of environmental damage or contamination. These laws and regulations expose us to the risk of substantial environmental costs and liabilities, including liabilities associated with divested assets and past activities and, in some cases, the acts and omissions of the previous owners or operators of a property or facility that we own or operate. Furthermore, in some jurisdictions, certain environmental laws and regulations impose liability without regard to fault or the legality of the original activity at the time of the actions giving rise to liability. To prevent, control and remediate environmental problems and maintain compliance with regulatory requirements, in line with our global initiatives on environmental management, we maintain an environmental policy designed to monitor and control environmental matters. Our environmental policies require that each of our subsidiaries respect and comply with local laws and meet our own internal standards to minimize the use of non-renewable resources and the generation of hazardous and other wastes. We use processes that are designed to reduce the impact of our operations on the environment throughout all the production stages in all our operations worldwide. In addition, during 2012, we started the implementation of a global EMS at our operating sites that provides a framework to facilitate the consistent and systematic implementation of practical, risk-based environmental management at all sites. As of December 31, 2022, substantially all of our operating sites in Mexico, EMEAA, and SCA&C have completed the implementation of the EMS. The EMS is designed to be used to support sites and businesses across CEMEX globally to document, maintain and continuously improve our environmental performance. We believe that, as of December 31, 2022, substantially all of our cement plants already have some kind of EMS (most of which have earned ISO 14000 certifications), with most of the remaining implementation efforts directed mainly towards our aggregates and ready-mix plants.

We regularly incur capital expenditures that have an environmental component or that are impacted by environmental regulations. However, we do not keep separate accounts for such mixed capital and environmental expenditures. Environmental expenditures that extend the life, increase the capacity, improve the safety or efficiency of assets, or are incurred to mitigate or prevent future environmental contamination may be capitalized. Other environmental costs are expensed when incurred.

The following is a discussion of environmental regulations and related matters in our major markets.

Mexico

We were one of the first industrial groups in Mexico to sign an agreement with the Mexican Ministry of Environment and Natural Resources (Secretaría del Medio Ambiente y Recursos Naturales) (“SEMARNAT”) to carry out voluntary environmental audits in our 15 Mexican cement plants under a government-run program. In 2001, the Mexican Environmental Protection Agency (Procuraduría Federal de Protección al Ambiente), which is part of SEMARNAT, completed the audit of our cement plants and awarded each of them a Clean Industry Certificate (Certificado de Industria Limpia) (“CIC”) certifying that our cement plants are in full compliance with applicable environmental laws. The CICs are subject to renewal every two years. As of December 31, 2022, our operating cement plants in Mexico had CICs or were in the process of renewing them.

For almost three decades, the technology for co-processing used alternative fuels into an energy source has been employed in our cement plants in Mexico. By the end of 2019, all our operating cement plants in Mexico were using alternative fuels. Overall, 25.8% of the total fuel used in our operating cement plants in Mexico during 2021 was comprised of alternative fuels. In January 2021, a modification to the General Waste Law was published in the Official Gazette to include co-processing as part of the industrial process, providing that authorizations granted by the SEMARNAT under federal licenses will remove the need for authorizations at the State level.

The audit to obtain the renewal of the ISO 14001:2015 certification took place during 2020 and our then operating cement plants in Mexico obtained the renewal of the ISO 14001:2015 certification for environmental management systems, which is valid until February 2024. As of December 31, 2022, our cement plant in Hermosillo, Mexico has obtained its certification after having restarted production in 2021.

On June 6, 2012 the General Law on Climate Change (Ley General de Cambio Climático) (the “Climate Change Law”) was published in the Mexican Official Gazette. The Climate Change Law establishes a legal framework to regulate policies for climate change mitigation and adaptation. Important provisions of the Climate Change Law require the development of secondary legislation and depend on the publication of subsequent implementing regulations. For instance, the Climate Change Law provides, among other things, for (i) the elaboration of a registry of the emissions that are generated by fixed sources, (ii) companies to report their emissions, if required, and (iii) the application of fines to those companies that fail to report or that report false information. In this regard, on October 29, 2014, the Regulations to the General Law on Climate Change Regarding the National Registry of Emissions (Reglamento de la Ley General de Cambio Climático en Materia del Registro Nacional de Emisiones) (the “Regulations”) became effective. As of December 31, 2022, CEMEX has been granted the positive dictums on GHG emission by a certified and approved third party for all its required plants and has reported them to the Mexican environmental agency. The purpose of the Regulations is to govern the Climate Change Law regarding the National Registry of Emissions, identifying the sectors and subsectors, which include among others, the cement industry, that must file the corresponding reports before the National Registry of Emissions. We had previously reported our direct and indirect CO₂ emissions to SEMARNAT under a voluntary scheme. The Climate Change Law also allows for the establishment of specific greenhouse gas reduction targets in accordance with the respective contribution of each economic sector to the national greenhouse gas emissions. A Special Tax on Production and Services (Impuesto Especial Sobre Producción y Servicios) on the sale and import of fossil fuels was included in the tax reform that became effective on January 1, 2014. As of December 31, 2022, petcoke, a primary fuel widely used in our kilns in Mexico is taxed at a rate of Ps\$21.8784 per ton (\$1.12 per ton as of December 31, 2022, based on an exchange rate of Ps\$19.482 to \$1.00). Effective as of January 1, 2023, petcoke will be taxed at a rate of Ps\$23.5827 per ton (\$1.21 per ton as of December 31, 2022, based on an exchange rate of Ps\$19.482 to \$1.00).

On August 12, 2014, a package of energy reform legislation became law in Mexico. The then newly enacted energy reform legislation, which included nine new laws, as well as amendments to existing laws, implemented the December 2013 constitutional energy reform and established a new legal framework for Mexico’s energy industry. One of the new laws that was enacted is the Electric Industry Law (*Ley de la Industria Eléctrica*) (the “Electric Industry Law”), which establishes a legal framework for electricity-related activities in Mexico and structurally

changes the national electric industry, creating a wholesale energy market in which companies can acquire power and associated products, directly from privately owned suppliers, as opposed to only acquiring energy from the Federal Electricity Commission (*Comisión Federal de Electricidad*) (“CFE”). On October 31, 2014, certain rules and regulations related to the energy reform legislation, including the regulations of the Electric Industry Law, were published. As part of the Electric Industry Law, a system for tradable clean energy certificates was created and certain clean energy procurement obligations were imposed on consumers. The clean energy procurement obligations for 2018 to 2022 were announced by the Mexican Energy Regulatory Commission (*Comisión Reguladora de Energía*) (“CRE”) at 5%, 5.8%, 7.4%, 10.9% and 13.9%, respectively, and a requirement of 13.9% for 2023 was published on November 22, 2022. Further increases to this requirement are expected for future years. CEMEX’s operations in Mexico have ongoing commitments to procure power from renewable projects operating under the “self-supply” framework of the former Electric Energy Public Service Law, and the energy supplied under these contracts is exempted from the clean energy obligation. Nonetheless, since 2018, we are required to acquire clean energy certificates to comply with the clean energy obligations for the fraction of energy supply that does not come from clean generators. Over time, according to the penalty levels set by the CRE, non-compliance with the clean energy procurement obligations could have a material adverse impact on our business or operations in Mexico, but as of December 31, 2022, we are not able to assess if any such impact would in turn have a material adverse impact on our liquidity and financial condition.

On September 8, 2015, the Electricity Market Rules (*Bases del Mercado Eléctrico*) (the “Rules”) were published in the Federal Official Gazette and became effective on September 9, 2015. The Rules, which are an important step forward in the implementation of the reforms enacted regarding Mexico’s energy industry, contain the design and operation principles of the different components of the wholesale electricity market (the “Electricity Market”) and, together with the Electric Industry Law and several administrative provisions and guidelines issued by CRE, regulate the possibility for consumers to enter into supply agreements with CFE or with private suppliers participating in the Electricity Market. As of December 31, 2022, we are authorized participants in the Electricity Market. Additionally, CEMEX participated as a buyer in the third long-term power auction organized in 2017 by CENACE, the independent National Electric System operator, through the clearinghouse in charge of the agreements awarded through the auctions, and was awarded a 20-year contract for 16,129 clean energy certificates per year for compliance starting in 2020 and 14.9 GWh/a of electric power.

During 2016, a new electrical standards code for the national grid’s operation was issued in Mexico (*Código de Red*) (the “Code”). The Code establishes new standards for electrical operation and safety that begun to be enforced in 2019 against consumers connected to the national grid, including CEMEX and generators. On December 31, 2021, the CRE published a resolution in the Official Mexican Gazette (*Diario Oficial de la Federación*) through which it issued a revised version of the Code (the “2.0 Code”). The 2.0 Code came into force as of January 1, 2022, and among other things, provides (i) the technical requirements applicable to load centers that are connected, or intend to connect, to the National Electric System at medium or high tension, in order to guarantee the efficiency, quality, reliability, continuity, safety and sustainability of the system, (ii) the obligation for renewable power plants to participate in primary frequency control, (iii) a procedure to execute root cause assessments of disturbances in the National Electric System and (iv) a new procedure to reduce the generation of electric power upon the occurrence of extraordinary conditions in the National Electric System. As of December 31, 2022, we do not foresee that compliance with the 2.0 Code would require material investments across our operating assets in Mexico.

On October 2, 2019, SEMARNAT published the basis for a trial emissions trading program (*programa de prueba del sistema de comercio de emisiones*). The trial program sets forth an initial 24-month pilot phase for the adoption of the program that started on January 1, 2020 and concluded on December 31, 2021, which is followed by a 12-month period to transition to the operative stage, which ends on December 31, 2022. The trial program will not have any economic consequences for the participants; but after December 2022, SEMARNAT will establish emission caps per industrial sector in line with Mexico’s greenhouse gas emissions reduction targets.

We will have to meet those caps through mitigation measures or acquire emission reduction certificates in the proposed market. As of December 31, 2022, we cannot anticipate the impact that this new cap-and-trade scheme and the mandatory emissions caps will have on our operations in Mexico, mainly due to the fact that the existing rules apply only to its current pilot phase, yet we are participating with various lobbying groups within different industrial sectors and chambers to address our concerns towards a fair and robust operative phase.

On April 29, 2020, CENACE issued a resolution providing for the implementation of several restrictive measures on output in privately-owned wind and photovoltaic plants, including, among other measures, the suspension of all tests required by such plants that were in construction at that moment, to reach commercial operation, among other measures to guarantee the efficiency, quality, reliability, continuity and security of the Mexican electrical system during the period of reduced power demand caused by the COVID-19 pandemic (the “NES Resolution”). Additionally, on May 15, 2020, the Mexican Ministry of Energy (Secretaría de Energía, the “SENER”) published in the Official Mexican Gazette (Diario Oficial de la Federación) a substantial revision to the Policy for the Reliability, Safety, Continuity and Quality of the Mexican Electrical System (the “SENER Policy,” and together with the NES Resolution, the “Energy Publications”). The Energy Publications entailed significant deviations from the current Mexican Electricity Market Rules (Bases y Reglas del Mercado Eléctrico), among other laws and regulations in Mexico.

The SENER Policy imposes additional restrictions and conditions on the issuance and modification of generation permits for solar and wind facilities. Additionally, among other changes, the SENER Policy expressly prioritizes reliability over economic efficiency in the dispatch of the electric grid, potentially affecting the production of solar and wind generation to the benefit of existing plants owned by CFE; transfers the value of the capacity recognized to the solar and wind plants to the load-serving entities; and mandates the creation of new ancillary services and infrastructure improvements, the costs of which are to be borne by wind and solar generators. Several private power generators and non-governmental organizations filed constitutional challenges against the Energy Publications claiming that such publications are unconstitutional and restrict constitutionally protected rights and interests, such as the right to a healthy environment. Moreover, on June 22, 2020, Mexico’s antitrust regulator (Comisión Federal de Competencia Económica) (“COFECE”) filed a legal controversy claim (controversia constitucional) with Mexico’s Supreme Court arguing that the SENER Policy violates several provisions of the Mexican Constitution and that it adversely affects the competitive nature of Mexico’s energy market. On February 3, 2021, Mexico’s Supreme Court issued a final ruling on the constitutional controversy claim filed by COFECE against the SENER Policy nullifying most of its provisions. Thereafter on March 4, 2021, SENER published in the Official Mexican Gazette a resolution abolishing the SENER Policy in its entirety. Additionally, a Federal Judge ruled the nonexistence of the NES Resolution, which was thereafter published by CENACE through its official information system on June 16, 2021, leaving the NES Resolution without effects.

Furthermore, on May 28, 2020, during an extraordinary meeting, the CRE approved two resolutions which call for increases to the transmission charges payable to the CFE by all electric power generators, with renewable and conventional power plants, operating under grandfathered interconnection agreements (“Grandfathered Generators”) which are subject to the laws and regulations that were applicable before the Mexican energy reform of 2013 to 2014 (the “CRE Resolutions”). Under the CRE Resolutions, these new wheeling charges for the transmission service constitute an exponential and immediate increase for Grandfathered Generators and were applied by CFE as of July 2020. While the entities legally obliged to pay for those transmission costs are Grandfathered Generators, the end-users must hold a minority participation in the Grandfathered Generators from whom they receive the power supply, thus depending on the structure agreed in the corresponding power supply agreements (which could consist of pass-through provisions for such transmission costs), end-users under the grandfathered “self-supply” scheme, including CEMEX, may run the risk of transmission costs and be obligated to pay the relevant grandfathered projects for said incremental costs. In the case of the three wind farms in Mexico owned by Grandfathered Generators, in which CEMEX has a minority participation and with which CEMEX has entered into long-term arrangements to receive the power under the “self-supply” framework, the charges for transmission payable to CFE, in which CEMEX has a minority participation, associated with the wind farms increased by four to six times. Furthermore, we expect the transmission charges to increase by about 80% in the case of the pet coke-fired self-supply thermal power plant in Tamuin, Mexico, owned by another Grandfathered Generator in which CEMEX has a minority participation and with which CEMEX has also entered into a long-term arrangement to receive power. As of December 31, 2022, the Grandfathered Generators that supply electric energy to our operations in Mexico have all obtained injunctions against the applicable CRE Resolutions and two of them have obtained favorable resolutions in their constitutional challenges, nullifying all the provisions and effects of the CRE Resolutions. These favorable resolutions are final and definitive as no further recourse is available. We are closely monitoring the progress of the remainder of the constitutional challenges filed by the other Grandfathered Generators that supply electric energy to our operations in Mexico, as certain arrangements with the Grandfather Generators regarding wheeling charges are structured under a pass-through mechanism, which are typical of these types of “self-supply” projects, expose CEMEX to the increases called for by the CRE Resolutions and would entail an increase in the electricity prices for our plants in Mexico. On August 28, 2020, we filed a constitutional challenge against the CRE resolution applicable to Grandfathered Generators operating

conventional power plants and we were granted an injunction against such CRE Resolution, though as of December 31, 2022, no final ruling on the appeal filed by the CRE against such injunction had been issued. As of December 31, 2022, we cannot assess with certainty the outcome of the legal challenges presented against the CRE Resolutions, or the impact that an adverse resolution on those could have on our business, operations and contractual obligations in Mexico.

On March 9, 2021, a decree amending several key provisions of the Electric Industry Law was published in the Official Mexican Gazette (the “Energy Industry Law Reform”). The Energy Industry Law Reform, among other consequences, (i) strengthens CFE’s powers in Mexico’s energy sector and grants its hydropower and conventional power plants preferential grid dispatch over privately-owned plants and priority on the use of transmission and distribution infrastructure over power plants owned by private parties relegating the current position private suppliers hold in the dispatch order; (ii) changes the economic dispatch in the Electricity Market from variable production costs to total unit costs; (iii) restricts the access to the national grid and general distribution network infrastructure by establishing new discretionary rules and restrictions on open access for interconnection requests to the national grid; (iv) subjects applications for power generation permits to new requirements for meeting certain planning criteria discretionarily established by SENER; (v) changes the methodology to determine the granting of clean energy certificates, allowing plants built before the publication of the Electric Industry Law to issue certificates; and (vi) allows the CRE to (x) unilaterally and retroactively revoke any power generation permits granted to Grandfathered Generators, if found to have been obtained fraudulently, and (y) allows CFE to renegotiate power purchase agreements entered with independent power producers, both of which are subject to the laws and regulations that were applicable before the Mexican energy reform of 2014. Shortly thereafter, federal judges granted injunctions under constitutional challenges filed by several private generators (including the Grandfathered Generators that supply electric energy to our operations in Mexico) and other participants in the Electricity Market affected by the amendments, temporarily suspending the effects of the Energy Industry Law Reform not only with respect to the parties that filed the constitutional challenges, but also on a general basis for all participants in the Electricity Market, though SENER filed appeals to challenge such rulings. By the end of the third quarter of 2021, several injunctions granted on a general basis had been revised by Federal Circuit Courts of Appeals to limit their protective effects exclusively to private generators that filed constitutional challenges against the Energy Industry Law Reform, including the Grandfathered Generators that supply electric energy to our operations in Mexico. On April 8, 2021, a group of Senators filed an unconstitutionality claim (acción de inconstitucionalidad) (the “Unconstitutionality Claim”) against the Energy Industry Law Reform. Moreover, on April 22, 2021, COFECE filed a legal controversy claim with Mexico’s Supreme Court arguing that the Energy Industry Law Reform adversely affects the competitive nature of Mexico’s energy market. Although on April 7, 2022, the Mexican Supreme Court dismissed the Unconstitutionality Claim as it did not reach the required votes to declare the unconstitutionality of any of the contested provisions of the Energy Industry Law Reform, it laid out several arguments in its decision that could form the basis for future resolutions to ongoing constitutional challenges in favor of declaring the unconstitutionality of the different provisions of such reforms. Additionally, COFECE’s controversy was dismissed by the Supreme Court on April 18, 2022. The Mexican Supreme Court’s dismissal of the Unconstitutionality Claim and COFECE’s controversy does not revoke the injunctions granted against the enforcement of the Energy Industry Law Reform (including those granted to Grandfathered Generators that supply electric energy to our operations in Mexico), and as of December 31, 2022, some of those injunctions are still in force, thus, the Energy Industry Law Reform will remain suspended until the last of those injunctions has been revoked or all claims have been resolved in favor of its constitutionality. As of December 31, 2022, we cannot anticipate the impact that the Energy Industry Law Reform could have on our business, operations, and contractual obligations in Mexico if the contested provisions contained in the Energy Industry Law Reform are deemed constitutional in final decisions to be issued on the injunctions granted to Grandfathered Generators that supply electric energy to our operations in Mexico, nor we can anticipate the impact that such reform could have on our business, operations and contractual obligations in Mexico. However, if the Energy Industry Law Reform were to limit the dispatch of renewable energy generators or impose new costs or charges to the renewable electric energy industry, and/or cause new regulatory burdens for participants in Mexico’s Wholesale Electricity Market, we could have an adverse effect on our business, operations and contractual obligations in Mexico, and our plans to reduce the use of fossil fuels and our CO₂ reduction commitments could be affected.

On May 21, 2021, SENER published in the Federal Official Gazette (Diario Oficial de la Federación) the “Decree by means of which several provisions of the Hydrocarbons Law are added and amended” (Decreto por el que se reforman y adicionan diversas disposiciones de la Ley de Hidrocarburos or the “Hydrocarbons Law Reform”), imposing additional burdens to private parties who carry out activities related to petroleum, petroleum derivatives and

natural gas, to the benefit of CFE and PEMEX, and could potentially affect end-users, such as CEMEX. The Hydrocarbons Law Reform entered into force on May 5, 2021, among other things, (i) increases requirements for obtaining new permits, (ii) imposes new conditions on existing permits and (iii) imposes new grounds for revocation of permits. We have not yet determined if the Hydrocarbons Law Reform could have a material adverse impact on our results of operations, liquidity or financial condition. Although several federal judges had originally issued injunctions against the Hydrocarbons Law Reform, which prevented its application on a general basis, as of December 31, 2022, some of the decisions of the federal judges granting such injunctions have been reversed by Federal Circuit Courts of Appeals, which have lifted some of the injunctions and dismissed some constitutional challenges filed by private parties against the Hydrocarbons Law Reform. However, the legal effects of the amendments introduced by the Hydrocarbons Law Reform will continue to be suspended until Federal Circuit Courts of Appeals revoke the last of the injunctions granted on a general basis.

On September 30, 2021, a draft bill amending several articles of the Mexican Constitution in matters concerning the legal framework for Mexico's energy industry (the "Energy Reform Bill") was submitted by the Mexican federal executive branch to the House of Representatives of the Mexican congress. The Energy Reform Bill aimed to completely reverse the December 2013 constitutional energy reform in matters related to the electricity sector, although it also contemplates important changes for the oil & gas and the mining sectors, such as the disappearance of the National Hydrocarbons Commission (Comisión Nacional de Hidrocarburos), the elimination of all references to state productive enterprises conducting oil & gas exploration and production activities, and the prohibition to grant concessions for the exploitation of lithium. As for the regulatory framework concerning the electricity sector, some of the main amendments proposed by the Energy Reform Bill were: (i) the generation, conduction, transformation, distribution, and supply of electric power, including the exploitation of natural resources and assets, would return to be a strategic area of the state; (ii) CENACE would be re-integrated back into CFE and the latter would operate as a single and autonomous governmental entity taking over the current functions of CENACE, and the responsibility of operating the electric grid, and would also be exclusively in charge of preserving energy security and sufficiency, as well as the supply of electric power to all the population; (iii) the CRE would disappear and SENER would assume the former's functions; (iv) power generation permits, together with all power purchase agreements entered into with the private sector and all pending permit applications would be cancelled as of the date on which the amendments introduced by Energy Reform Bill become effective; (v) any new permits would have to be requested before SENER; and (vi) all clean energy certificates would be cancelled. As a result of the Energy Reform Bill, the existing legal framework on the sector, including the Electric Industry Law and the Hydrocarbons Law, would have to be amended or replaced. On April 17, 2022, the House of Representatives of the Mexican Congress voted on the Energy Reform Bill, which did not reach the two-thirds qualified majority necessary for its approval and was therefore dismissed.

See "Recent Developments—Recent Developments Relating to Our Regulatory Matters and Legal Proceedings—Environmental Matters—Mexico."

United States

Our operating subsidiaries in the United States are subject to a wide range of U.S. federal, state and local laws, regulations and ordinances dealing with the protection of human health and the environment that are strictly enforced and can lead to significant monetary penalties for noncompliance. These laws and regulations expose us to the risk of substantial environmental costs and liabilities, including liabilities associated with divested assets and past activities and, in some cases, the acts and omissions of the previous owners or operators of a property or facility. These laws regulate, among other things, water discharges, noise, and air emissions, including dust, as well as the handling, use and disposal of hazardous and non-hazardous waste materials. Certain laws also create a shared liability scheme under which parties are held responsible for the cost of cleaning up releases to the environment of designated hazardous substances. We therefore may have to conduct environmental remediation associated with the disposal or release of hazardous substances at our various operating facilities, or at sites in the United States to which we sent hazardous waste for disposal. As of December 31, 2022, we believe that our current procedures and practices for handling and managing materials are generally consistent with industry standards and legal and regulatory requirements, and also believe that we take appropriate precautions designed to protect employees and others from harmful exposure to hazardous materials.

As of December 31, 2022, CEMEX, Inc. and its subsidiaries had accrued liabilities specifically relating to environmental matters in the aggregate amount of \$52.6 million. The environmental matters relate to (i) the disposal of various materials, in accordance with past industry practice, that might be categorized as hazardous substances or waste and (ii) the cleanup of hazardous substances or waste at sites used or operated by CEMEX, Inc. and its subsidiaries including discontinued operations, either individually or jointly with other parties. Most of these matters are in the preliminary stages, and a final resolution might take several years. For purposes of recording the provision, CEMEX, Inc. and its subsidiaries consider that it is probable that a liability has been incurred and the amount of the liability is reasonably estimable, whether or not claims have been asserted, and without giving effect to any possible future recoveries. Based on information developed as of December 31, 2022, CEMEX, Inc. does not believe it will be required to spend significant sums on these matters, in excess of the amounts previously recorded. The ultimate cost that might be incurred to resolve these environmental issues cannot be assured until all environmental studies, investigations, remediation work, and negotiations with, or litigation against, potential sources of recovery have been completed.

In 2007, the EPA launched a CAA enforcement initiative against the U.S. cement industry. The primary goal of the initiative is to assess the industry's historic compliance with the CAA's New Source Review program and to reduce emissions from the industry through the installation of add-on controls. We have actively engaged with the EPA on its investigations, which involved multiple of our facilities in the United States, and have entered into four settlements involving a total of \$6.1 million in civil penalties and a commitment to incur certain capital expenditures for pollution control equipment at our Victorville, California; Fairborn, Ohio (divested on February 10, 2017); Lyons, Colorado; Knoxville, Tennessee; Louisville, Kentucky (divested on March 6, 2020); Demopolis, Alabama; Odessa, Texas (divested on November 18, 2016); and New Braunfels, Texas plants. Based on our past experience with such matters and currently available information, as of December 31, 2022, we believe any further proceedings should not have a material adverse impact on our results of operations, liquidity and financial condition.

In 2002, CEMEX Construction Materials Florida, LLC (formerly Rinker Materials of Florida, Inc.) ("CEMEX Florida"), a subsidiary of CEMEX, Inc., was granted a federal quarry permit and was the beneficiary of another federal quarry permit for the Lake Belt area in South Florida. The permit held by CEMEX Florida covered CEMEX Florida's SCL and FEC quarries. CEMEX Florida's Kendall Krome quarry is operated under the permit of which it was a beneficiary. The FEC quarry is the largest of CEMEX Florida's quarries measured by volume of aggregates mined and sold. CEMEX Florida's Miami cement mill is located at the SCL quarry and is supplied by that quarry, while the FEC and Kendall Krome quarries have supplied aggregates to CEMEX and third-party users. In response to litigation brought by environmental groups concerning the manner in which the federal quarry permits were granted, in January 2009, the U.S. District Court for the Southern District of Florida ordered the withdrawal of the federal quarry permits for CEMEX Florida's SCL, FEC and Kendall Krome quarries. The judge ruled that there were deficiencies in the procedures and analysis undertaken by the Army Corps of Engineers ("Corps") in connection with the issuance of the permits. Upon appeal, on January 21, 2010, the Eleventh Circuit Court of Appeals affirmed the district court's ruling withdrawing the federal quarry permits for the three CEMEX Florida quarries as well as other third-party federal quarry permits subject to the litigation. On January 29, 2010, the Corps completed a multi-year review commenced as a result of this litigation and issued a Record of Decision ("ROD") supporting the issuance of new federal quarry permits for the FEC and SCL quarries. Excavation of new aggregates was stopped at the FEC and SCL quarries from January 20, 2009 until new permits were issued. The FEC permit was issued on February 3, 2010, and the SCL permit on February 18, 2010. Furthermore, permits to extend the areas available to mine at the FEC and SCL quarries were received on May 7, 2020 and July 22, 2020, respectively. The ROD also indicated that a number of potential environmental impacts must be addressed at the wetlands located at the Kendall Krome site before a new federal quarry permit may be issued for mining at that quarry, meaning that no new aggregates would be quarried from wetland areas at Kendall Krome pending the resolution of the potential environmental issues, with the FEC and SCL quarries continuing to operate. On November 15, 2020, the Corps determined that the wetlands at the Kendall Krome quarry are not subject to the jurisdiction of the Clean Water Act. Therefore, Clean Water Act permits will not be required to resume mining at the Kendall Krome site. If CEMEX Florida is unable to maintain the new Lake Belt permits, to the extent available, CEMEX Florida would need to source aggregates from other locations in Florida or import aggregates. This would likely affect operating income from our operations in Florida. As of December 31, 2022, any adverse impacts on the Florida economy arising from the cessation or significant restriction of quarrying operations in the Lake Belt area could also have a material adverse impact on our results of operations, liquidity and financial condition.

In June 2010, the EPA proposed regulating Coal Combustion Residuals ("CCRs") generated by electric utilities and independent power producers as a hazardous or special waste under the United States Resource Conservation and Recovery Act. On December 19, 2014, the EPA issued a final rule on the regulation of CCRs. In the United States, we no longer use CCRs as a raw material in our cement manufacturing process, nor as a supplemental cementitious material in our ready-mix concrete products.

Our operations in the United States are subject to a number of federal and state laws and regulations addressing climate change. On the federal side, EPA has promulgated a series of regulations pertaining to emissions of GHGs from industrial sources. EPA issued the Mandatory Reporting of GHGs Rule, effective December 29, 2009, which requires certain covered sectors, including cement manufacturing, with GHG emissions above an established threshold to inventory and report their GHG emissions annually on a facility-by-facility basis. In 2010, EPA issued a final rule that establishes GHG thresholds for the New Source Review Prevention of Significant Deterioration (“PSD”) and Title V Operating Permit programs (“Title V”). The rule “tailors” the requirements of these CAA permitting programs to limit which facilities will be required to obtain PSD and Title V permits for GHG emissions. Cement production facilities are included within the categories of facilities required to obtain permits, provided that their GHG emissions exceed the thresholds in the tailoring rule. The PSD program requires new major sources of regulated pollutants and major modifications at existing major sources to secure pre-construction permits that establish, among other things, limits on pollutants based on Best Available Control Technology (“BACT”).

According to EPA’s rules, stationary sources, such as cement manufacturing, which are already regulated under the PSD program for non-GHG pollutants, need to apply for a PSD permit for any GHG emissions increases above 75,000 tons/year of CO₂ equivalent (“CO₂E”). Therefore, new cement plants and existing plants undergoing modification which are major sources for non-GHG pollutants regulated under the CAA need to acquire a PSD permit for construction or modification activities that increase CO₂E by 75,000 or more tons/year, and would have to determine and install BACT controls for those emissions. Furthermore, any new source that emits 100,000 tons/year of CO₂E or any existing source that emits 100,000 tons/year of CO₂E and undergoes modifications that would increase CO₂E emissions by at least 75,000 tons/year, must comply with PSD obligations. Complying with these PSD permitting requirements can involve significant costs and delay. As of December 31, 2022, the costs of future GHG-related regulation of our facilities through these efforts or others could have a material economic impact on our U.S. operations and the U.S. cement manufacturing industry, which in turn could have a material adverse impact in our results of operations, liquidity and financial condition.

With respect to state efforts to address climate change, in 2006, the State of California adopted the Global Warming Solutions Act (“Assembly Bill 32” or “AB32”) setting into law a goal to reduce the State’s CO₂ emissions to 1990 levels by 2020. As part of the measures derived from AB32, the California Air Resources Board (“CARB”) developed a cap-and-trade program, enforced from 2013, that covers most industrial sources of greenhouse gas emissions in the State, including cement production facilities. The program involves allocating a number of allowances free of charge to covered installations, which must subsequently surrender back to the regulator a number of allowances or qualified offset credits matching their verified emissions during the compliance period. Based on the free allowances received, our Victorville cement plant met all of its compliance obligations for the second compliance period (2015 to 2017) without a material impact on its operating costs; and also met all of its compliance obligations for the third compliance period (2018 to 2020) without a material impact on its operating costs. Furthermore, as of December 31, 2022, for our operations in California, we are actively pursuing initiatives to substitute fossil fuels for lower carbon fuels, improve our energy efficiency and utilize renewable power in an effort to economically reduce our direct and indirect GHG emission intensities. However, even with these ongoing efforts and the expected distribution of free allowances, as of December 31, 2022, the measures corresponding to future compliance periods of AB32, which may eventually require us to purchase emission allowances at increased prices due to their reduced availability, and the resulting overall costs of complying with a cap-and-trade program, could have an impact on our operations in California, which in turn could have an adverse impact on the results of operations, liquidity and financial condition of our operations in the U.S., and consequently on us.

In 2007, CARB approved a regulation that requires California equipment owners/operators to reduce diesel particulate and nitrogen oxide emissions from in-use off-road diesel equipment and to meet progressively more restrictive emission targets. In 2008, CARB approved a similar regulation for in-use on-road diesel equipment. The emission targets require us to retrofit our California-based equipment with diesel emission control devices or replace equipment with new engine technology in accordance with certain deadlines. As of December 31, 2022, compliance with the CARB regulations has resulted in equipment related expenses or capital investments, including overhauling engines and purchases of new equipment related to the CARB regulations, in excess of \$104.7 million. As of December 31, 2022, we estimate that we may continue to incur substantial expenditures to comply with these requirements.

In 2019, Colorado adopted the Climate Action Plan to Reduce Pollution (House Bill 19-1261) (“CCAP”). The CCAP sets into law a goal to reduce the state’s greenhouse gas pollution levels by 25% by 2025, 50% by 2030 and 90% by 2050 compared to 2005 levels. Rulemaking to implement CCAP is now ongoing by the Colorado Department of Public Health and Environment, Air Pollution Control Division, and the resulting rules and regulations might result in the requirement for additional emissions control technology and other changes in operating processes for cement manufacturers. Further, on October 22, 2021, the Colorado Air Quality Control Commission passed the Green Gas Emissions and Energy Management for Manufacturers in Colorado rule (the “GEMM”). The GEMM became effective on December 15, 2021. The GEMM intends to reduce air pollution, save energy, and improve air quality in communities near emitting facilities. It requires specific facilities in the state that produce 50,000 tons or more in GHG emissions, including our construction materials facility in Lyons, to, among other things, prepare and submit to the Air Pollution Control Division an energy and GHG audit demonstrating that they are using GHG Best Available Control Technologies and Energy Best Management Practices. If the audit shows a facility is using GHG Best Available Control Technologies and Energy Best Management Practices, it will still be required to reduce its GHG emissions by 5%. On the other hand, if a facility’s audit shows it is not using such best controls to save energy and reduce GHG emissions, it will need to reduce the same amount of emission that those best controls would achieve, plus reduce an additional 5% in total GHG emissions. Additionally, in July 2021, Colorado adopted the Environmental Justice Act (House Bill 21-1266) (the “EJA”), which requires Colorado’s manufacturing sector as a whole to reduce GHG emissions 20% by 2030, based on 2015 reported emissions. The regulations to implement the EJA are expected to be addresses in a second phase of the GEMM rulemaking in 2023. We are currently working to comply with the GEMM and following developments in any new regulations proposed to implement the EJA.

Europe

General overview of EU industrial regulation

As of December 31, 2022, the EU legal system operates differently compared to federal systems. The EU legal regime, referred to as supra-national law, sits above the legal systems of the different EU member states (“Member States”), which retain their independence subject to tight oversight from EU institutions, especially the Court of Justice and the European Commission. As such, EU law operates (in its many fields of application, including industrial regulation) in order to control and authoritatively interpret the legislation and implementation of law (EU and domestic) in those Member States. One of the key manifestations of this supra-national control are the inter-related doctrines of the supremacy of EU law and of conforming interpretation. Essentially, where an area of legal control in a Member State has its origin in EU legislation, the Member States must implement or transpose the EU law fully and effectively into their domestic law and every organ of the Member State, including its regulators and its courts, must interpret (and if necessary, change) domestic law in order to conform with the objectives and the letter of the relevant EU legislation. This is of relevance to the cement sector since almost every aspect of its environmental regulation has its origins in EU legislation.

In the EU, the cement sector is subject to a range of environmental laws at EU and national Member States levels. These laws can be very broadly categorized as (1) primary and direct controls placed upon their main operational activities and (2) more general legal regimes which protect different aspects of the environment across many sectors.

The primary examples of the first kind of control are the various laws governing the specific operational activities of the sector, through stringent permitting and emissions controls, which are further explained below; examples of the second, more general, legal controls are the EU Water Framework Directive (2000/60/EC) and the EU Waste Framework Directive (2008/98/EC) which impose various obligations in relation to protection of the surface and underground water environments and the recovery, disposal and overall management of waste. In practice, even these more general laws indirectly impact our industry through permitting emissions control systems.

EU Industrial Permits and Emissions Controls

In the EU, the primary legal environmental controls applied to cement plants are those EU Directives which control operational activities and emissions from those activities. Initially, these controls were primarily derived from two EU Directives: (1) the so-called “IPPC Directives” (as described below) and (2) the Incineration Directive (as defined below).

The primary EU legislative control over the sector (until the transition to the IED, as described below) was the Directive on Integrated Pollution Prevention and Control (2008/1/EC) (“IPPC Directive”), which updated and consolidated an earlier Directive first promulgated in 1996. Since 1996, these IPPC Directives adopted an integrated approach to regulation of various sectors of industrial plants, including cement, by taking into account and controlling/regulating the whole environmental performance of the plant.

The second earlier Directive, which was applied in direct control of cement operations (until the transition to the IED, as described below), was the EU Waste Incineration Directive (2000/76/EC) (“Incineration Directive”) which regulated those parts of the cement operation that used recovered waste materials as substitute fuels in cement kilns. Its aim was to prevent or limit, as far as practicable, negative effects on the environment, in particular pollution by emissions in air, soil, surface water and groundwater and the resulting risks to human health, from incineration and co-incineration plants.

Cement and limestone kilns as a primary or secondary source of fuel fall within the definition of “co incineration plants.” The Incineration Directive sought to achieve its aim by setting and maintaining stringent operational conditions and technical requirements, as well as emission limit values for a range of pollutants including dust, nitrogen oxides, sulfur dioxide, hydrogen chloride, heavy metals and dioxins.

On January 6, 2011, the Industrial Emissions Directive (2010/75/EU) (“IED”) came into force. The IED recasts seven pieces of previously existing legislation into a single coherent legislative instrument, including the IPPC Directives and the Incineration Directive, both of which it repeals. With some exceptions, the IED retains the essential substance of the earlier Directives and tightens some of its provisions. The IED has applied to new industrial installations since January 7, 2013 and to existing industrial installations (other than large combustion plants) since January 7, 2014.

Since the adoption of the early IPPC Directives and under the IED, operators of industrial installations, including cement plants, are required to obtain an integrated permit from the relevant permitting authority in the Member States. Under the IED, as with the IPPC Directive, these permits contain emission limit values and other conditions based on the application of a legal and technical concept called “best available techniques” (“BAT”).

The concept of BAT is central to the system, and effectively imposes a legal obligation on plant operators to use and apply the best available techniques (as they develop from time to time) in order to prevent or, where this is not practicable, minimize emissions of pollutants likely to be emitted in significant quantities from the plant to air, water or land. Emission limit values, parameters or equivalent technical measures must be based on the best available techniques, without prescribing the use of one specific technique or technology and taking into consideration the technical characteristics of the installation concerned, their geographical location and local environmental conditions. In all cases, the permit conditions must procure a high level of protection for the environment as a whole and must address energy efficiency, waste minimization, prevention of accidental emissions and site restoration. Since the IPPC Directives were in effect, to assist the permitting authorities and companies in determining the BAT, the European Commission periodically organizes exchanges of information between experts from the Member States, industry and environmental organizations. This results in the adoption and publication by the European Commission of BAT Reference Documents (“BREFs”) for the industry sectors covered by the IED. A key element of the BREFs are the conclusions on BAT (“BAT conclusions”), which are used as a reference for setting permit conditions.

However, there is an important difference regarding BREFs between the IPPC Directive and the IED. Under the IPPC Directive, the BREFs were considered as guidance only. This is not the case under the IED. Where BAT conclusions specify emission levels, permitting authorities are required to set emission limit values that do not exceed these levels. They may derogate from this requirement only where the costs associated with the achievement of the emission levels associated with the BAT disproportionately outweigh the environmental benefits due to the geographical location, the local environmental conditions or the technical characteristics of the installation concerned. The permitting authorities must document the reasons for the derogation from the emission limit values in the permit, including the result of the cost-benefit assessment.

In April 2013, pursuant to European Commission Decision No. 2013/163/EU, the European Commission published new BAT conclusions under the IED for production of cement, lime and magnesium oxide, together with specific emission levels. This document sets out an extensive list of technical requirements for most aspects of the cement manufacturing process in the EU, with a view to prevention and minimization of all polluting emissions.

It is a new requirement under the IED that permitting authorities must review and, if necessary, update permit conditions within four years of the European Commission publishing decisions on BAT conclusions for a particular activity. The European Commission describes review of the BREFs as a continuing process due to ongoing technological advances and so updates may be expected. As of December 31, 2022, a total of 15 BREFs of the existing 32 are being rewritten or revised for the IED. As of December 31, 2022, this has the potential to require our operations in Europe to be adapted to conform to the latest BAT, which in turn could impact our operations.

As of December 31, 2022, we believe that our operations in Member States will be impacted given the change in regulatory approach heralded by the legislation and its ongoing revision and the fact that it will be key to the permitting of the cement industry in the EU. As of December 31, 2022, we are not able to assess the degree of impact that the future BAT conclusion requirements that come into effect under the IED will have on our operations in Member States.

EU Emissions Trading

In 1997, as part of the United Nations Framework Convention on Climate Change (the “UNFCCC”), the Kyoto Protocol was adopted to limit and reduce GHG emissions. The Kyoto Protocol set legally binding emission reduction targets for 37 industrialized countries and the EU. Under the Kyoto Protocol, industrialized countries agreed to reduce their collective GHG emissions by 5% against 1990 levels over the five-year period going from 2008 to 2012 (“First Commitment Period”). In 2012, at the United Nations Climate Change Conference in Doha, Qatar, the Doha Amendment to the Kyoto Protocol was adopted. Certain parties, including the United Kingdom and the EU, committed to reduce GHG emissions by at least 18% below 1990 levels in the eight-year period going from 2013 to 2020 (“Second Commitment Period”). To compensate for the sting of binding targets, the Kyoto Protocol allowed three “flexibility” mechanisms to be used by parties in meeting their emission limitation commitments: The Clean Development Mechanism (“CDM”), Joint Implementation (“JI”) and International Emissions Trading.

In order to be able to maintain the international climate protection process after 2020, a new climate agreement was required. Negotiations were held in the framework of the yearly UNFCCC Climate Change Conferences on measures to be taken after the Second Commitment Period would end in 2020. This resulted in the adoption of an agreement known as the Paris Agreement in 2015, which is a separate instrument under the UNFCCC rather than an amendment of the Kyoto Protocol. Under the Paris Agreement, each country must determine, plan, and regularly report on the contribution that it undertakes to mitigate global warming (“Nationally Determined Contribution” or “NDC”). The Paris Agreement sets out a global framework to avoid dangerous climate change by limiting global warming to well below 2°C and pursuing efforts to limit it to 1.5°C. The EU’s NDC under the Paris Agreement is to reduce GHG emissions by at least 55% by 2030 compared to 1990.

Initially in order to implement the Kyoto Protocol, and now to implement the Paris Agreement, the EU established an emissions trading system (“ETS”) by means of Directive 2003/87/EC. Under the ETS, a cap or limit is set on the total amount of CO₂ emissions that can be emitted by the power plants, energy-intensive installations (including cement plants) and commercial airlines that are covered by the system. As of December 31, 2022, our operations in the European Union are subject to the binding caps on CO₂ emissions imposed pursuant to the ETS. The cap is reduced over time so that the total amount of emissions will decrease.

Within the cap, companies receive free allocation or buy emission allowances. These allowances are tradable so as to enable companies that manage to reduce their emissions, below their free allocation level, to sell their excess allowances to a secondary market or directly to other companies with allowance surrender obligations. After each year, a company must surrender enough carbon allowances to cover all its emissions. In general, failure to meet the emissions reporting and surrender obligations is subject to significant monetary penalties of €100 for each ton of CO₂ emitted by the installation for which the operator has not surrendered allowances, whilst also having to surrender allowances to cover the initial under surrender.

The ETS consists of four trading phases: Phase I which lasted from January 1, 2005 to December 31, 2007, Phase II, which lasted from January 1, 2007 to December 31, 2012, Phase III, which commenced on January 1, 2013 and ended on December 31, 2020, and Phase IV, which commenced on January 1, 2021 and will last until December 31, 2030. Prior to the commencement of each of ETS Phases I and II, each Member State was responsible for publishing its National Allocation Plan (“NAP”), a document which set out a national cap on the total amount of carbon emissions by all installations during each relevant trading phase and the methodology by which the cap would be allocated to the different sectors in the ETS and their respective installations. Each Member State’s cap contributed to an overall EU cap on emissions, where one carbon allowance had to be surrendered to account for one metric ton of carbon emitted. The carbon allowances were mostly distributed for free by each Member State to its ETS installations, although some Member States also used a fraction of their material cap for auctioning, mainly to power generators. Under ETS Phase III, however, the system of NAPs was replaced by a single EU-wide, top-down, cap on CO₂ emissions, with allocation for all installations made according to harmonized EU rules and set out in each Member State’s National Implementation Measures (“NIM”). Additional restrictions were introduced on the extent to which Kyoto Protocol units could be used to offset EU carbon emissions, and auctioning, not free allocation, became the default method for distributing allowances. During Phase IV of the ETS (2021 to 2030), the EU-wide overall cap on emission allowances will be reduced by 2.2% every year from 2021, benchmarks will be updated based on recent data twice during the 2021 to 2030 period, a more dynamic allocation based on recent production shall replace the “historical activity level” and less emission allowances will be available for auction due to their allocation to the EU’s Market Stability Reserve. As of December 31, 2022, it is not possible to predict with certainty how CEMEX will be affected by the reform to the ETS in Phase IV and which regulations implementing the European Union’s NDC and Green Deal (as defined below) will be approved; however, we currently expect that the aggregate amount of allowances that will be annually allocated for free to CEMEX in Phase IV, due to unused surplus from previous phases, should be sufficient for our operations in Europe until at least the end of 2025. If any emission allowances would need to be purchased, such emission allowances would likely be purchased at increased prices due to their reduced availability in auctions, since they would have been allocated to the Market Stability Reserve. If emission allowances for Phase IV were to be insufficient at some point which would trigger the need to purchase emission allowances, all of this could have a material impact on our results of operations, liquidity and financial condition.

EU policymakers have traditionally seen the free allocation of allowances as a principal way to reduce the risk of carbon leakage—that is either, increased imports from countries that do not have climate change control, or the risk that energy-intensive industries, facing higher costs because of the ETS, will move their facilities beyond the EU’s borders to these countries, thus resulting in a leakage of CO₂ emissions without any environmental benefits.

A list of ETS sectors deemed to be at significant risk of carbon leakage is periodically adopted by the European Commission, following agreement by Member States and the European Parliament. The main factors taken into account in determining whether a sector is at significant risk of carbon leakage include the extent to which direct and indirect costs induced by the implementation of the ETS would increase production cost, calculated as a proportion of the gross value added and the sector’s trade intensity with non-EU countries (imports and exports). This list has historically included the cement production sector.

Sectors classified as deemed to be at significant risk of carbon leakage continued to receive 100% of their benchmark allocation of allowances free of charge during Phase III, adjusted by a cross-sectoral correction factor applied uniformly upon all participating facilities in Europe in order to reduce the amount of free allocation that each installation received so that the total sum would not exceed the authorized EU-wide cap for free allocation. By contrast, sectors not considered at risk of carbon leakage received 80% of their benchmark allowances for free in 2013, declining to 30% by 2020. The cement industry is included in the list of sectors at significant risk of carbon leakage for Phase IV of the ETS; and therefore receives, and should continue to receive, free allocation until at least 2025. Further to this, the EU Parliament’s environment committee is expected to vote on the revised ETS in February 2023. If progressed, a final vote in March 2023 will pave the way for the cement industry, among others, to have their free allocation period end over a nine-year period between 2026 and 2034. A future decision to end the free allocation period for the cement industry could have a material impact on our operations and our results of operations, liquidity and financial condition.

On April 27, 2011, the European Commission adopted Decision 2011/278/EU, which stated the rules, including the benchmarks of GHG emissions performance, to be used by the Member States in calculating the number of allowances to be annually allocated for free during Phase III of the ETS to industrial sectors (such as cement) deemed to be exposed to the risk of “carbon leakage.” The number of allowances to be allocated to installations for free was based on a combination of historic activity levels at that installation and an EU benchmark of carbon efficiency for the production of a particular product—for example, clinker. An installation’s historic activity level was calculated by taking the median of its annual production levels during the baseline period, either 2005 to 2008 or, where historic activity levels were higher, 2009 to 2010. The product benchmark was based on the average carbon emissions of the top 10% most “carbon efficient” EU installations for a particular product during 2007 and 2008, where carbon efficiency is measured by carbon intensity or carbon emission per metric ton of product. Preliminary allocation calculations based on the rules were carried out by each Member State and included in a NIM table which was sent for scrutiny to the European Commission. On September 5, 2013, the European Commission adopted Decision 2013/448/EU which approved the NIMs submitted by most Member States and which set the annual cross-sectoral correction factors for Phase III of the ETS. The cross-sectoral correction figure was used to adjust the levels of product benchmarks used to calculate the free allocation of allowances to each installation. This was so the total amount handed out for free did not exceed the maximum set in the ETS Directive. Each Member State was required to adjust its national allocation table of free allowances each year and submit this for approval to the European Commission prior to issuing allowances. The application of this cross-sectoral correction factor resulted in an important decrease in the quantity of allowances that our ETS-participant operations received for free in the 2013 to 2020 period. Also, during Phase III, if the activity level of a sub-installation and thus emissions therefrom decreased below a certain threshold than the activity level used to determine free allocation, rules known as the “partial cessation rules” would apply and the level of free allocation would be decreased. While the system for free allocation during Phase IV of the ETS doesn’t differ fundamentally from that of Phase III, free allocation during Phase IV of the ETS will focus on sectors at the highest risk of relocating their production outside of the EU, a considerable number of free allowances will be set aside in the Market Stability Reserve for new and growing installations, more flexible rules in place of the “partial cessation rules” have been set to better align the level of free allocation with actual production levels, allocation to individual installations may be adjusted annually to reflect relevant increases and decreases in production, the 54 benchmark values determining the level of free allocation to each installation will be updated twice in Phase IV to avoid windfall profits and reflect technological progress since 2008, and an annual reduction rate varying from 0.2% to 1.6% will be determined for each benchmark. Furthermore, the free allowance mechanism may be affected as a result of the potential adoption of certain measures as part of the CBAM (as defined below).

In addition to carbon allowances, up to the end of its Phase III, the ETS allowed the use or exchange of Kyoto Protocol units by companies for compliance up to a certain limit to offset their carbon emissions in the EU: the Emission Reduction Unit, representing a metric ton of carbon saved by a project under the JI mechanism, and the Certified Emission Reduction unit (“CERs”) under the CDM. As of December 31, 2022, we have registered 19 CDM projects with a total potential to, according to our estimates, reduce 2.44 million tons of CO₂e emissions per year. Since July 2014, we do not verify the actual reductions, so we do not generate CERs on an annual basis since then. As of December 31, 2022, we have already used the maximum allowed number of CERs in all EU operations. Under Phase IV, Emission Reduction Units and CERs will no longer be usable or exchangeable for compliance purposes.

Despite having sold a substantial amount of allowances during Phase II of the ETS, the aggregate amount of allowances that were annually allocated for free to CEMEX in Phase III of the ETS (2013 to 2020) were sufficient to operate, which lead us to also sell a significant number of allowances that had been allocated to us in Phase III. This stems from various factors, notably our efforts to reduce emissions per unit of clinker produced and the stream of offset credits coming from our internal portfolio of CDM projects. As of December 31, 2022, we are taking measures intended to minimize our exposure to the ETS, while continuing to supply our products to our customers. As of December 31, 2022, it is not possible to predict with certainty how CEMEX will be affected by the ETS in Phase IV; however, we currently expect that the aggregate amount of allowances that will be annually allocated for free to CEMEX in Phase IV, due to unused surplus from previous phases, should be sufficient for our operations in Europe until at least the end of 2025. If purchasing any emission allowances is needed, such emission allowances would likely be purchased at increased prices due to their reduced availability in auctions, since they would have been allocated to the Market Stability Reserve. All of this could have a material impact on our results of operations, liquidity and financial condition. Also, although the cement industry is included in the list of leakage sectors which will receive free allocation of allowances during Phase IV of the ETS, a future decision that the cement industry should no longer be regarded as a significant risk of carbon leakage or the adoption of certain measures as part of the CBAM (as defined below) could have a material impact on our operations and our results of operations, liquidity and financial condition.

Furthermore, as a result of the 2019 United Nations Climate Change Conference, also known as “COP25” held in Madrid, Spain, the EU published its “Green Deal” setting out Europe’s strategy to achieve its current NDC and carbon neutrality by 2050. Among the measures that make up the European Union’s Green Deal, the following are expected to impact our industry in the coming years: (i) implementation of a carbon border adjustment to protect from imports, which may be an obstacle for our industry to preserve free allocation; (ii) stricter enforcement of the existing legislation on energy performance of buildings; (iii) extending the ETS to the maritime sector, and possibly also to other sectors, including those related to construction; (iv) implementation of measures to address pollution from industrial activities; (v) development of a new sustainable finance strategy; and (vi) a review of regulations that cover construction products, as well as other initiatives.

On July 14, 2021, the European Commission proposed the following in relation to the measures mentioned in the paragraph above to procure the fulfillment of the goals contained in its Green Deal, among others:

(i) The implementation of the Carbon Border Adjustment Mechanism (“CBAM”), which would equalize the price of carbon between EU domestic products and imports mainly by making EU importers buy carbon certificates corresponding to the carbon price that would have been paid, had the goods been produced under the EU’s carbon pricing rules. Conversely, once a non-EU producer can show that they have already paid a price for the carbon used in the production of the imported goods in a third country, the corresponding cost can be fully deducted for the EU importer. The CBAM should help reduce the risk of carbon leakage and is expected to eventually replace the ETS free allowances granted to EU producers. The initial CBAM proposal shortlisted clinker and portland cement, among others, as goods subject to the adjustment mechanism. According to the proposal, CBAM would be introduced progressively starting in 2023, having a transitional period consisting of data collection starting January 1, 2023, to and including December 31, 2025. The proposal envisions CBAM to be fully implemented in 2026 with the beginning of its definitive stage;

(ii) A reduction of the overall emission cap and an increase in the overall annual rate of reduction of emissions under the ETS was proposed. The proposal also intends to reduce free allowances in the ETS for sectors covered by the CBAM at the rate of 10% per year from 2026 to 2035, when they would be completely eliminated;

(iii) The incorporation of the maritime sector, building sector relating to heating in buildings with outdated systems that use polluting fossil fuels, and road transport into the ETS;

(iv) The implementation of a separate emissions trading system for fuel distribution for road transport and buildings;

(v) The increase in the size of the EU’s Innovation and Modernization Funds, which are currently expected to be funded by the revenues from auctioning 450 million allowances from 2020 to 2030. If approved, this could potentially increase the amount of allowances to be auctioned, therefore reducing the price for such allowances; and

(vi) An increase in its target to produce the EU’s energy from renewable sources by 2030 from 32% to 40% of the total energy production.

As of December 31, 2022, none of the proposals described above has been approved, as they were still subject to consultation throughout the second half of 2022. As a result, as of December 31, 2022, we are not able to foresee the final form of these proposals or any future proposals to achieve the goals of the Green Deal; and, consequently, we are not able to assess if their approval and implementation would have a material adverse impact on our results of operations, liquidity, and financial condition.

As of January 1, 2021, an independent emissions trading system in the United Kingdom (the “UK ETS”) replaced the ETS in the United Kingdom. The United Kingdom has already issued regulations establishing the structure of the UK ETS, including a cap on emissions each year to 2030. With some exceptions, the UK ETS is similar to the ETS and provides continuity after the transition from the ETS. Among these exceptions are the following: (i) a tighter annual cap than under the ETS, at 5% below the Phase IV ETS cap; and (ii) greater fines to apply, as a charge of £100 would be imposed for each ton of emissions not covered by allowances, which is higher than the €100 fine under the ETS. The United Kingdom cap is set to be revised in 2024 to fully align with a net-zero trajectory. As of December 31, 2022, although the UK ETS provides continuity after the transition from the ETS, it is not possible

to predict with certainty how CEMEX will be affected by the UK ETS. As in Phase IV of the ETS and given the expected tighter caps and expected revision in 2024, the aggregate amount of allowances allocated to CEMEX under the UK ETS could not be sufficient for our operations in the UK, and, therefore, CEMEX could require to purchase emission allowances at some point in time. It could be necessary to purchase these emission allowances at increased prices due to potential insufficient liquidity and increased price volatility in the UK ETS compared to the ETS. All of this could have a material impact on our results of operations, liquidity and financial condition.

In furtherance of the Paris Agreement, countries are invited to deliver new NDCs every five years. During COP25, 41 countries, including the EU, representing 10.1% of global emissions committed to update their respective NDC during 2020. Furthermore, 80 countries signaled their intention to enhance ambition or action in an NDC by 2020, representing 10.5% of global emissions. Where satisfied, the aforementioned commitments and intentions were satisfied to varying degrees. All countries where CEMEX has operations, except for the Mexico and the Philippines updated and/or enhanced their 2030 NDC targets during COP26 held in Glasgow in November 2021. In addition, more than 130 countries have now set or are considering a target of reducing emission to reaching carbon zero by 2050. As of December 31, 2022, it is uncertain if the delivery of new NDCs or these enhanced action plans for carbon reduction will lead to the implementation of any further regulations, and if any such implementation would have a material adverse impact on our results of operations, liquidity and financial condition.

EU Taxonomy

Further to the European Union's climate and energy targets and to reach the objectives of its Green Deal, the European Union has sought to establish a framework to facilitate sustainable development under a classification system that sets out a list of environmentally sustainable economic activities, which was published on March 9, 2020 (the "EU Taxonomy") and Regulation (EU) 2020/852 (the "EU Taxonomy Regulation"), which was published in the Official Journal of the European Union on June 22, 2020 and entered into force on July 12, 2020. The EU Taxonomy Regulation established six environmental objectives: i) climate change mitigation, ii) climate change adaptation, iii) sustainable use and protection of water and marine resources, iv) transition to a circular economy, v) pollution and prevention and control, and vi) protection and restoration of biodiversity and ecosystems.

Key provisions of the EU Taxonomy Regulation have been developed and adopted by delegated acts. A first delegated act on sustainable activities for climate change adaptation and mitigation was published in the Official Journal of the European Union on December 9, 2021 and entered into force on January 1, 2022 (the "EU Taxonomy Climate Delegated Act"). A second delegated act specifying the content and presentation of information to be disclosed by companies subject to Article 19a or 29a of Directive 2013/34/EU concerning environmentally sustainable economic activities was published in the Official Journal of the European Union on December 15, 2021 and also entered into force on January 1, 2022 (the "Disclosure Delegated Act"). A third delegated act on climate change mitigation and adaptation covering certain gas and nuclear activities was published in the Official Journal of the European Union on July 15, 2022 and entered into force on January 1, 2023 (the "Complementary Climate Delegated Act" and, together with the EU Taxonomy Climate Delegated Act, the "Climate Delegated Acts").

As of December 31, 2022, only two of the six environmental objectives of the EU Taxonomy Regulation have been addressed by the Climate Delegated Acts. Further guidance on the remaining objectives of the EU Taxonomy Regulation and other related developments are expected to be issued during 2023 and 2024.

UK Taxonomy

Following the United Kingdom's exit from the European Union Single Market and Customs Union in early 2021, the UK government is consulting on the adoption of a framework to facilitate sustainable development, which will be based on the EU Taxonomy Regulation to the extent that it forms part of domestic law by virtue of the European Union (Withdrawal) Act 2018 (the "UK Green Taxonomy"). The Green Technical Advisory Group is advising on the UK Green Taxonomy and the final report is yet to be published. In addition to imposing certain reporting obligations, the classification of a company's activities under the UK Green Taxonomy could, among other things, influence a company's ability to access funds for certain projects, the financial markets or financial products.

Great Britain Landfills

In Great Britain, future expenditure on closed and current landfill sites has been assessed and quantified over the period in which the sites are considered to have the potential to cause environmental harm, generally consistent with the regulatory view of up to 60 years from the date of closure. The assessed expenditure relates to the costs of monitoring the sites and the installation, repair and renewal of environmental infrastructure. The costs have been quantified on a net present value basis in the amount of £171,945,924.34 million (\$208 million as of December 31, 2022, based on an exchange rate of £.8264 to \$1.00) as of December 31, 2022, and we made an accounting provision for this amount.

Philippines Environmental Class Action

On September 20, 2018, a landslide occurred in Sitio Sindulan, Barangay Tina-an, Naga City, Cebu, Philippines (the “Landslide”), a site located within an area covered by mining rights of ALQC.

We are an indirect minority shareholder in ALQC, the principal raw material supplier of one of our subsidiaries in the Philippines, APO.

On November 19, 2018, CHP and APO were served summons concerning an environmental class action lawsuit filed by 40 individuals and one legal entity (on behalf of 8,000 individuals allegedly affected by the Landslide) at the Regional Trial Court of Talisay, Cebu (the “Cebu Court”), against CHP, ALQC, APO, the Mines and Geosciences Bureau of the Department of Environment and Natural Resources, the City Government of Naga, and the Province of Cebu, for “Restitution of Damage of the Natural and Human Environment, Application for the Issuance of Environmental Protection Order against Quarry Operations in Cebu Island with Prayer for Temporary Protection Order, Writ of Continuing Mandamus for Determination of the Carrying Capacity of Cebu Island and Rehabilitation and Restoration of the Damaged Ecosystems.”

In the complaint, among other allegations, plaintiffs claim that the Landslide occurred as a result of the defendants’ gross negligence; and seek, among other relief, (i) monetary damages in the amount of 4.3 billion Philippine Pesos (\$77.23 million as of December 31, 2022, based on an exchange rate of 55.67 Philippine Pesos to \$1.00), (ii) the establishment of a 500 million Philippine Pesos (\$8.98 million as of December 31, 2022, based on an exchange rate of 55.67 Philippine Pesos to \$1.00) rehabilitation fund, and (iii) the issuance of a Temporary Environment Protection Order against ALQC aiming to prevent ALQC from performing further quarrying activities while the case is still pending.

As of December 31, 2022, among other defenses and based on a report by the Mines and Geosciences Bureau of the Department of Environment and Natural Resources, CHP, APO and ALQC (individually, each a “Private Defendant” and collectively, the “Private Defendants”) deny liability and hold the position that the Landslide occurred due to natural causes.

In an order dated August 16, 2019, the Cebu Court denied plaintiffs’ Application for Temporary Environment Protection Order. Plaintiffs moved for reconsideration, but the Cebu Court also denied plaintiffs’ motion in an order dated September 30, 2019. Plaintiffs did not appeal this ruling, which became final as of December 5, 2020.

Likewise, in a separate order also dated September 30, 2019, the Cebu Court partially granted the affirmative defenses raised by Private Defendants in their respective answers, and ruled, among others, that the subject case against CHP and APO is dismissed for failure to state a cause of action. The Cebu Court also ruled that: (i) the 22 plaintiffs who failed to sign the verification and certification against forum shopping are dropped as party-plaintiffs; (ii) the subject case is not a proper class suit, and that the remaining 17 plaintiffs can only sue for their respective claims, but not as representatives of the more than 8,000 alleged victims of the landslide incident; (iii) plaintiffs’ cause of action against ALQC for violation of Section 19(a) of Republic Act No. 10121 is dismissed; (iv) there is a misjoinder of causes of action between the environmental suit and the damage suit; and (v) the damage suit of the remaining plaintiffs will proceed separately upon payment of the required docket fees within 30 days from receipt of order, otherwise, the case for damages will be dismissed. A motion for reconsideration was filed on November 26, 2019 by the plaintiffs. During the hearing of the plaintiff’s motion for reconsideration on September 11, 2020, the Province of Cebu was officially dropped as a defendant in the case. In another order dated November 17, 2021, the Cebu Court denied the plaintiff’s motion for reconsideration and also granted the motions of the Mines and

Geosciences Bureau and the City Government of Naga, dismissing the case against them. On January 31, 2022, the plaintiffs appealed the Court's latest order with the Court of Appeals. Defendants (including government defendants) opposed the plaintiff's appeal, and, on April 28, 2022, the Court of Appeals rejected the plaintiff's appeal and instructed the entry of judgment to issue the corresponding certificate of finality. As of December 31, 2022, the plaintiff has not filed a motion for reconsideration, and if the plaintiff fails to file a motion for reconsideration, the decision will become final, and the case would be closed. As of December 31, 2022, only ALQC remains as a private defendant of the case.

If the plaintiff files a motion for reconsideration and such motion is granted by the competent court, allowing the plaintiff's appeal to proceed, and the other of September 30, 2019 is later on reversed on appeal by the Court of Appeals of the Philippines, and a final adverse resolution is issued in this matter after trial, plaintiffs will have the option to proceed against any one of ALQC, APO or CHP for satisfaction of the entirety of the potential judgment award, without the need to proceed against any other Private Defendant beforehand. Thus, ALQC's, APO's or CHP's assets alone could be exposed to execution proceedings. As of December 31, 2022, at this stage of the overall proceedings and considering all possible defenses that could be available, while we cannot assess with certainty the likelihood of an adverse result in the overall proceedings, we believe a final adverse resolution in the overall proceeding is not probable, and, additionally, because we are not able to assess the outcome of the appeal filed by the plaintiffs to challenge the Cebu Court's order of September 30, 2019, we are not able to determine if a final adverse resolution, if any, would have a material adverse impact on the Company's consolidated results of operations, liquidity and financial condition.

See "Recent Developments Relating to Our Regulatory Matters and Legal Proceedings—Environmental Matters—Philippines Environmental Class Action."

Tariffs

The following is a discussion of tariffs on imported cement in some of the countries and regions in which we operate.

Mexico

Mexican tariffs on imported goods vary by product and have historically been as high as 100%. Over the years, import tariffs have been substantially reduced and currently range from none at all for raw materials to over 20% for finished products. As a result of North American Free Trade Agreement ("NAFTA"), starting January 1, 1998, the tariff on cement imported into Mexico from the United States or Canada was eliminated. A new agreement signed on November 30, 2019, called the United States-Mexico-Canada Agreement ("USMCA"), and which supersedes NAFTA, entered into force on July 1, 2020. The USMCA does not have any impact on tariffs on cement imported from the United States or Canada into Mexico.

While the lack of existence or reduction in tariffs could lead to increased competition from imports in the markets in Mexico in which we operate, it is possible that other factors, such as the cost of transportation incurred from most producers outside Mexico to central Mexico, traditionally the region of highest demand in Mexico, could be seen as a barrier to enter certain of the regions in Mexico in which we operate.

United States

In general, and aside from any other restrictions or prohibitions, as of December 31, 2022, any cement imported into the United States from Cuba and North Korea is subject to custom duties depending on the specific type of cement. Imports into the United States from Cuba and North Korea are generally prohibited due to the U.S. import/export controls and economic sanctions. In order to import cement and other products into the United States from Cuba or North Korea, an importer would be required to obtain a license from the U.S. government or otherwise establish the existence of a license exception.

On September 18, 2018, the United States Trade Representative ("USTR") released a list of \$200 billion worth of Chinese imports that were to be subject to additional tariffs. This list included cement, clinker, slag cement, and granulated slag from the manufacture of iron or steel. These additional tariffs were effective starting September 24, 2018 and initially were in the amount of 10%. The U.S. was expected to increase the additional tariffs to 25%

starting January 1, 2019, but this increase was postponed for 90 days starting on December 1, 2018, to allow time for the United States and China to negotiate their trade disputes. Accordingly, absent a resolution of the trade disputes, the rate of additional duty for the products covered by the September 2018 tariff action increased to 25% on May 10, 2019. On August 23, 2019, the United States announced that the current 25% import tariff would be increased to 30% by October 1, 2019. On September 11, 2019, the United States announced that implementation of this increase would be delayed to October 15, 2019, however, the implementation of this increase has not yet occurred as of December 31, 2022, and the tariff remains at 25%.

Also, as of December 31, 2022, cement imports from countries other than Cuba, China and North Korea into the United States are currently duty free, however, certain individuals and entities on U.S. government lists of specially designated nationals and prohibited parties, may be subject to U.S. import/export controls and other sanctions that prohibit transactions (including import transactions) with such persons without a license.

Europe

Member countries of the EU are subject to the uniform EU commercial policy. There is no tariff on cement imported into a country that is a member of the EU from another member country or on cement exported from an EU country to another member country. As of December 31, 2022, for cement imported into a member country from a non-member country, the tariff was 1.7% of the customs value. Any country with preferential treatment with the EU is subject to the same tariffs as members of the EU. Most Eastern European producers exporting cement into EU countries currently pay no tariff.

United Kingdom

Following the United Kingdom's exit from the European Union Single Market and Customs Union in early 2021, the United Kingdom is no longer required to abide by the European Union's Common External Tariff and has introduced its own U.K. Global Tariff schedule (the "UKGT"), which determines duties and tariffs on goods on a "Most Favoured Nation" basis in line with World Trade Organization principles. Pursuant to the UKGT, tariffs of 1.7% to 2.7% have been removed on over 40 construction products, including portland cement, marble, granite, various other types of building stone and plaster boards.

The United Kingdom has also entered into a trade agreement with the European Union, known as the EU UK Trade and Cooperation Agreement, which provides for continued trade without the imposition of tariffs and quotas.

Asia

On August 27, 2019, the Department of Trade and Industry ("DTI") of the Republic of the Philippines imposed a general safeguard measure on imported cement from various countries (Department Administrative Order 19-13 ("DAO"), Series of 2019) for a period of three years (October 2019 to October 2022). On December 5, 2020, this safeguard was updated in order to make cement imports of cement types 2523.29.90 and 2523.90.00 under ASEAN Harmonized Tariff Nomenclature from major exporting markets of China, Japan, Taiwan, Thailand and Vietnam, subject to a general safeguard duty of 245 Philippine Pesos per metric ton for the second year (i.e., from October 22, 2020 to October 21, 2021) of the aforementioned three-year period. On March 3, 2021, the DTI amended the DAO on cement safeguards, specifically removing certain countries from the list of developing countries and separate customs territories which are exempted from the safeguard measure that meet the de-minimis level of import volume share (less than 3%) to total cement importation. The countries that are no longer excluded from the imposition of the safeguard duty are Chile, Israel, Slovenia, Slovakia, Poland, Lithuania, Latvia, Hungary, Estonia, Czech Republic, Republic of Korea, and Indonesia. The general safeguard duty imposed under the DAO on cement safeguards for the final year of the aforementioned three-year period, which expired on October 20, 2022 was 200 Philippine Pesos per metric ton. The duty amount remains subject to regular review by the DTI.

Tax Matters

United States

As of December 31, 2022, the United States Internal Revenue Service ("IRS") has concluded its audits for the years 2014 through 2018. The final findings did not alter the originally filed CEMEX returns in the United States, which had no reserves set aside for any potential tax issues. On February 14, 2019, the IRS commenced its audits of the 2019 tax year under the compliance assurance process. As of December 31, 2022, we have not identified any material audit issues and, as such, no reserves are recorded for the 2019 tax year audit in our financial statements.

On April 6, 2018, the Colombian Tax Authority (Dirección de Impuestos y Aduanas Nacionales) (“DIAN”) notified CEMEX Colombia of a proceeding notice in which the DIAN rejected certain deductions taken by CEMEX Colombia in its 2012 year-end income tax return. The DIAN assessed an increase in taxes to be paid by CEMEX Colombia in the amount of 124.79 billion Colombian Pesos (\$25.77 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00) and imposed a penalty in the amount of 124.79 billion Colombian Pesos (\$25.77 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00). On June 22, 2018, CEMEX Colombia responded to the proceeding notice; and, on December 28, 2018, CEMEX Colombia was notified of the issuance of an official liquidation confirming the information in the proceeding notice. CEMEX Colombia filed an appeal for reconsideration on February 21, 2019 within the legal term. On January 8, 2020, CEMEX Colombia was notified that the DIAN had, in response to the appeal filed by CEMEX Colombia, confirmed the DIAN’s assessment that CEMEX Colombia is required to pay increased taxes and corresponding penalties, as previously notified on April 6, 2018. CEMEX Colombia had four months to appeal this resolution in the corresponding administrative courts in Colombia; however, the terms for administrative and judicial proceedings were suspended as a result of the government’s measures in connection with the COVID-19 pandemic. On July 1, 2020, CEMEX Colombia filed an appeal against the aforementioned resolution in the Administrative Court of Cundinamarca. The Administrative Court of Cundinamarca admitted the appeal on September 20, 2021. No amounts are required to be paid by CEMEX Colombia until all available recourses have been filed and concluded. Additionally, on March 10, 2020, the DIAN issued a complementary administrative act “statement of objections” (pliego de cargos), in which the authority claims the payment of the credit balance that was originated in the tax declaration of the aforementioned year and that was offset by CEMEX Colombia with taxes from subsequent years.

CEMEX Colombia filed its response on June 2, 2020. On October 25, 2021, the DIAN issued a resolution in relation to the “statement of objections” (pliego de cargos) confirming the imposed penalty due to inadmissible compensation. The aforementioned penalty comprises 56.82 billion Colombian Pesos (\$11.74 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00) of the 124.79 billion Colombian Pesos (\$25.77 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00) increase in taxes to be paid by CEMEX Colombia assessed in 2018. CEMEX Colombia filed the appeal before the Administrative Court of Cundinamarca on December 16, 2021. The Administrative Court of Cundinamarca has not responded to the filed appeal and it is estimated that the appeal procedure will last at least 2 years. Notwithstanding this resolution, as of December 31, 2022, CEMEX considers that an adverse resolution after conclusion of all available defense procedures is not probable. However, it is difficult to assess with certainty the likelihood of an adverse result in the proceeding. If this proceeding is adversely resolved, CEMEX believes this could have a material adverse impact on the operating results, liquidity, or financial position of CEMEX.

On September 5, 2018, the DIAN notified CEMEX Colombia of a proceeding notice in which the DIAN rejected certain deductions taken by CEMEX Colombia in its 2011 year-end income tax return. The DIAN assessed an increase in taxes to be paid by CEMEX Colombia in the amount of 85.17 billion Colombian Pesos (\$17.59 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00) and imposed a penalty in the amount of 85.17 billion Colombian Pesos (\$17.59 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00). On November 30, 2018, CEMEX Colombia responded to the proceeding notice. On May 15, 2019, CEMEX Colombia was notified of the issuance of a tax assessment maintaining the initial rejection of the deductions taken by CEMEX Colombia in its 2011 year-end income tax return. CEMEX Colombia filed an appeal on July 11, 2019. On July 6, 2020, CEMEX Colombia was notified about a resolution confirming the official liquidation. On October 22, 2020, CEMEX Colombia filed an appeal against such resolution in the Administrative Court of Cundinamarca. If a final adverse resolution to CEMEX Colombia is reached in this matter, in addition to any amounts to be paid in confirmation of the official liquidation, CEMEX Colombia would, as of the payment date, be required to pay interest on the amounts that would be declared due as of the dates they would have had to be paid. The Administrative Court of Cundinamarca admitted the appeal on September 13, 2021. Furthermore, on June 8, 2020, the DIAN issued a complementary administrative act “statement of objections” (pliego de cargos), in which the authority claims the payment of the credit balance that was originated in the tax declaration of the

aforementioned year and that was offset by CEMEX Colombia with taxes from subsequent years. On December 17, 2020, CEMEX Colombia announced that the DIAN had archived such “statement of objections” (pliego de cargos), which means the DIAN issued an administrative act by which it closed the complementary statement of charges that had been issued within the income tax process for the fiscal year 2011 earlier in 2020. With the aforementioned administrative act, the complementary procedure within the income tax process for the fiscal year 2011 is concluded, since the value of 2011 is included within the complementary process for the fiscal year 2012. As of December 31, 2022, at this stage of the proceeding and considering all possible defenses available, while we cannot assess with certainty the likelihood of an adverse result in this special proceeding, we believe a final adverse resolution to this special proceeding is not probable. However, if adversely resolved, we believe such adverse resolution could have a material adverse impact on our results of operations, liquidity and financial condition.

Spain

Tax Assessment for the years 2006 to 2009

On July 7, 2011, the tax authorities in Spain notified CEMEX España of a tax audit process in Spain covering the tax years from and including 2006 to 2009. The tax authorities in Spain have challenged part of the tax losses reported by CEMEX España for such years. CEMEX España has been formally notified of fines in the aggregate amount of €456 million (\$489 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00) resulting from the July 7, 2011 tax audit process in Spain. The laws of Spain provide a number of appeals that can be filed against such fines without CEMEX España having to make any payment until such appeals are finally resolved. On April 22, 2014, CEMEX España filed appeals against such fines before the Tribunal Económico Administrativo Central (“TEAC”) of the Spanish tax authorities. On September 20, 2017, CEMEX España was notified by the TEAC about an adverse resolution to such appeals. CEMEX España filed a recourse against such resolution on November 6, 2017 before the National Court (Audiencia Nacional) and applied for the suspension of the payment of the fines. The National Court (Audiencia Nacional) admitted the recourse; and, on January 31, 2018, it notified CEMEX España of the granting of the suspension of the payment, subject to the provision of guarantees on or before April 2, 2018. In this regard, CEMEX España provided the respective guarantees in the form of a combination of a liability insurance policy and a mortgage of several assets in Spain owned by its Spanish subsidiary CEMEX España Operaciones, S.L.U. On November 6, 2018, the National Court (Audiencia Nacional) confirmed the acceptance of the guarantees by the Spanish Tax Office, which suspends the obligation to effect the payment until the recourses are definitively resolved. On November 30, 2021, the National Court (Audiencia Nacional) issued a judgment rejecting the appeal filed by CEMEX España against the resolution of the TEAC, confirming the imposed fines. This adverse judgment was notified to CEMEX España on November 30, 2021. On February 25, 2022, CEMEX filed with the Spanish Supreme Court a cassation appeal against the judgment issued by the National Court (Audiencia Nacional). On October 13, 2022, the Supreme Court determined not to admit the cassation appeal. CEMEX España subsequently filed an appeal for the annulment of this determination. The appeal for the annulment of the Supreme Court’s decision was admitted in December 2022 and CEMEX España currently awaits a decision on the appeal.

As of December 31, 2022, at this stage of the matter and considering all possible defenses available, while we cannot assess with certainty the likelihood of an adverse result in this matter, we believe a final adverse resolution to this matter is not probable. However, if adversely resolved, we believe such adverse resolution could have a material adverse impact on our results of operations, liquidity and financial condition.

See “Recent Developments—Recent Developments Relating to Our Regulatory Matters and Legal Proceedings—Tax Matters—Spain—Tax Assessment for the years 2006 to 2009.”

Tax Assessment for the years 2010 to 2014

On March 26, 2021, the tax authorities in Spain notified CEMEX España of an assessment for income taxes in an amount of €48 million (\$51.47 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00) plus late interest, derived from a tax audit process covering the tax years 2010 to 2014. This assessment was appealed before the TEAC on April 26, 2021. In order for the suspension of the payment of the tax assessment to be granted, CEMEX España provided a payment guarantee which was approved by the Spanish tax authorities on May 12, 2021.

On November 30, 2021, the tax authorities in Spain notified CEMEX España of a penalty for an amount of €68 million (\$72.92 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00) derived from the tax audit process covering the same period from 2010 to 2014. This assessment was appealed before the TEAC on December 31, 2021. Until this appeal is resolved, no payment will be due and CEMEX España is not required to furnish a guarantee for the filing of the appeal.

As of December 31, 2022, at this stage of the matter and considering all possible defenses available, while we cannot assess with certainty the likelihood of an adverse result in this matter, we believe a final adverse resolution to this matter is not probable. However, if adversely resolved, we believe such adverse resolution should not have a material adverse impact on our results of operations, liquidity and financial condition.

Other Legal Proceedings

Colombian Construction Claims

On August 5, 2005, the Urban Development Institute (Instituto de Desarrollo Urbano) (“UDI”), and an individual filed a lawsuit in the Fourth Anti-Corruption Court of Bogotá (Fiscalía Cuarta Anticorrupción de Bogotá) against a subsidiary of CEMEX Colombia claiming that it was liable, along with the other members of the Asociación Colombiana de Productores de Concreto (“ASOCRETO”), an association formed by the ready-mix concrete producers in Colombia, for the premature distress of the concrete slabs of the Autopista Norte trunk line of the TransMilenio bus rapid transit system of Bogotá in which ready-mix concrete and flowable fill supplied by CEMEX Colombia and other ASOCRETO members was used. The plaintiffs alleged that the base material supplied for the road construction failed to meet the quality standards offered by CEMEX Colombia and the other ASOCRETO members and/or that they provided insufficient or inaccurate information in connection with the product. The plaintiffs were seeking the repair of the concrete slabs in a manner which guarantees their service during the 20-year period for which they were originally designed, and estimate that the cost of such repair could have been 100 billion Colombian Pesos (\$20.65 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00). The lawsuit was filed within the context of a criminal investigation against a former director and two officers of the UDI, the contractor, the inspector and two ASOCRETO officers. On January 21, 2008, a court issued an order, sequestering the El Tunjuelo quarry, as security for payment of a possible future money judgment against CEMEX Colombia. The court determined that in order to lift this attachment and prevent further attachments, CEMEX Colombia was required to deposit 337.8 billion Colombian Pesos (\$69.76 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00) in cash instead of posting an insurance policy to secure such recovery. CEMEX Colombia appealed this decision and the Superior Court of Bogotá (Tribunal Superior de Bogotá) allowed CEMEX to present an insurance policy in the amount of 20 billion Colombian Pesos (\$4.13 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00). CEMEX gave the aforementioned security, and, on July 27, 2009, the court lifted the attachment on the quarry.

On October 10, 2012 the court issued a first instance judgment pursuant to which the accusation made against the ASOCRETO officers was nullified. The judgment also convicted a former UDI director, the contractor’s legal representatives and the inspector to a prison term of 85 months and a fine of 32 million Colombian Pesos (\$6,608.58 as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00). As a consequence, of the nullification, the judge ordered a restart of the proceeding against the ASOCRETO officers. The UDI and other parties to the legal proceeding appealed the first instance judgment and on August 30, 2013 the Superior Court of Bogotá resolved to reduce the prison term imposed to the former UDI director and the UDI officers to 60 months and imposed a fine equivalent to 8.8 million Colombian Pesos (\$1,817.36 as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00). Additionally, the UDI officers were sentenced to severally pay the amount of 108 billion Colombian Pesos (\$22.30 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00) for the purported damages in the concrete slabs of the TransMilenio bus rapid transit system. Additionally, the Superior Court of Bogotá overturned the penalty imposed to the contractor’s legal representatives and inspector because the criminal action against them was barred due to the passage of time. Furthermore, the Superior Court of Bogotá revoked the annulment in favor of the ASOCRETO officers and ordered the first instance judge to render a judgment regarding the ASOCRETO officers’ liability or lack thereof. On June 25, 2014, the Supreme Court of Colombia’s Penal Cassation Chamber (Sala de Casación Penal de la Corte Suprema de Justicia de Colombia) dismissed the cassation claim filed by the former UDI director and the UDI officers against the Superior Court of Bogotá’s judgment. Dismissal of the cassation claim has no effect on CEMEX Colombia’s or the ASOCRETO officers’ interests in these proceedings. On January 21, 2015, the Penal Circuit Court of Bogotá issued a resolution agreeing with the arguments presented by CEMEX Colombia regarding the application of the statute of limitations to the criminal investigation against the ASOCRETO officers and acknowledging that the ASOCRETO officers were not public officers, and as a consequence, finalizing the process against the ASOCRETO officers and the civil responsibility claim against CEMEX Colombia. On July 28, 2015, the Superior Court of Bogotá (Tribunal Superior de Bogotá) upheld this resolution and as such the action brought against CEMEX Colombia for the premature distress of the concrete slabs of the Autopista Norte trunk line has ended.

Related to the premature distress of the concrete slabs of the Autopista Norte trunk line of the TransMilenio bus rapid transit system six legal actions were brought against CEMEX Colombia. The Cundinamarca Administrative Court (Tribunal Administrativo de Cundinamarca) nullified five of these actions and, as of December 31, 2022, only one remains outstanding. On June 17, 2019, an administrative court, in the first instance, ruled against CEMEX Colombia and other concrete producers, because the judge found that there was a violation of consumer rights, for alleged faults in the roads. Consequently, the judge ordered CEMEX Colombia to issue a public statement acknowledging the alleged violation and a commit to not incur such violation in the future. This first instance decision did not contemplate any economic consequence for CEMEX Colombia. CEMEX Colombia jointly with thirteen of the defendants filed an appeal before the Administrative Tribunal of Cundinamarca. At this stage of the proceedings, as of December 31, 2022, regarding the remaining pending action filed before the Cundinamarca Administrative Court, if adversely resolved, we do not expect that such adverse resolution should have a material adverse impact on our results of operations, liquidity and financial condition.

Egypt Share Purchase Agreement

On April 7, 2011 and March 6, 2012, lawsuits seeking, among other things, the annulment of the share purchase agreement entered into by and between CEMEX and state-owned Metallurgical Industries Company (the “Holding Company”) in November 1999 pursuant to which CEMEX acquired a controlling interest in ACC (the “Share Purchase Agreement”), were filed by different plaintiffs, including 25 former employees of ACC, before the 7th and 8th Circuits of Cairo’s State Council Administrative Judiciary Court, respectively. In the 8th Circuit of Cairo’s State Council Administrative Judiciary Court’s session held on January 26, 2016, a ruling was issued for the dismissal of this case considering the plaintiff’s lack of standing. The plaintiff did not challenge this ruling; and, accordingly this ruling is final and definitive. At a session held on September 3, 2015, the 7th Circuit of Cairo’s State Council Administrative Judiciary Court ruled for staying the proceedings until the High Constitutional Court pronounces itself with regards to the challenges against the constitutionality of the Presidential Decree on Law 32 of 2014 (“Law 32/2014”). As of December 31, 2022, at this stage of the proceedings, we believe that the likelihood of an adverse result in this matter is not probable as we are not able to assess the likelihood of an adverse resolution regarding this lawsuit filed before the 7th Circuit of Cairo’s State Council Administrative Judiciary Court, but if adversely resolved, we do not believe the resolution in the first instance would have an immediate material adverse impact on our results of operations, liquidity and financial condition as there are different legal recourses that we could take. However, if we exhaust all legal recourses available to us, a final adverse resolution of this matter could have a material adverse impact on our operations, liquidity and financial condition.

Regarding a different lawsuit submitted to a First Instance Court in Assiut, Egypt and notified to ACC on May 23, 2011 (court case no. 670/2011), on September 13, 2012, the first instance court of Assiut, Egypt issued a judgment (the “First Instance Judgment”) to (i) annul the Share Purchase Agreement; and (ii) reinstate former employees to their former jobs at ACC. On October 18, 2012, ACC filed an appeal (appeal no. 1197/87) against the First Instance Judgment, which was followed by the Holding Company’s appeal filed on October 20, 2012 (appeal no. 1200/87) before the Appeal Court in Assiut, Egypt (the “Appeal Court”). At a November 17, 2013 hearing, the Appeal Court decided to join the appeals filed by ACC and the Holding Company and adjourned the session to January 20, 2014 to render judgment. On January 20, 2014, the Appeal Court issued a judgment (the “Appeal Judgment”) accepting both appeals, revoking the First Instance Judgment, ruling for non-qualitative jurisdiction of the first instance court to review the case and referred the matter to the administrative court in Assiut, Egypt (the “Assiut Administrative Court”) (Registered at Assiut Administrative Court under case no. 11842/41).

On March 12, 2014, ACC filed a challenge before the Cassation Court against the Appeal Judgment invoking economic court’s jurisdiction and requested suspension of the Appeal Judgment execution until the Cassation Court renders its judgment (the “Cassation Challenge”). A hearing was held on April 12, 2016 in order to review the request to stay the execution the Appeal Judgment regarding the referral of the case to the Assiut Administrative Court. At this hearing, the Cassation Court rejected the summary request. ACC has been notified of a session before the Cassation Court, to be held on January 4, 2023, in order to rule on the subject matter of the Cassation Challenge.

On October 15, 2014, the Assiut Administrative Court ruled (in case no. 11842/41) for its non-jurisdiction to review the case and referred the case to the Assiut Administrative Judiciary Court (Registered at administrative judiciary court under case no. 5580/26J). On December 11, 2014, ACC filed an appeal against the Assiut Administrative Court ruling (appeal no. 165/26—challenging the referral ruling in case 11842) (the “Appeal”), requesting that its enforcement be suspended until a judgment is issued on the Cassation Challenge. Additionally, another appeal substantially on the same terms as the Appeal was filed on March 10, 2014 by the Holding Company against the same ruling (administrative judiciary appeal no. 164/26—challenging the referral ruling in case 11842) (the “Parallel Appeal”).

In a session held on February 11, 2016 in order to review the Appeal, the Assiut Administrative Judiciary Court decided to refer the case to the First Circuit of Cairo’s State Council Administrative Judiciary Court, which in turn decided to refer the Appeal to the Assiut Administrative Judiciary Court. On August 27, 2018, the Assiut Administrative Judiciary Court decided to refer the Parallel Appeal to the Cairo Administrative Judiciary Court that decided lack of jurisdiction and to send the Parallel Appeal back to Assiut Administrative Judiciary Court.

On July 27, 2020, upon the request of ACC, Assiut Administrative Judiciary Court decided joinder of both the Appeal and the Parallel Appeal and to adjourn both to the hearing session of February 27, 2021, April 24, 2021, and then May 22, 2021, for submitting memos and documents.

The Assiut Administrative Judiciary Court held a hearing for the case (no. 5580/26) on February 24, 2016, in which it decided to refer the case to the First Circuit (formerly 7th Circuit) of “Economic and Investment Disputes” of Cairo’s State Council Administrative Judiciary Court (Registers at Cairo’s State Council Administrative Judiciary under Case no. 16348/71J). On February 24, 2021, Cairo’s State Council Administrative Judiciary Court issued a judgment ruling for the dismissal of this case considering the plaintiff’s lack of standing. This judgment is final and definitive, as the plaintiff failed to challenge it within the legally prescribed term. On February 27, 2021, Assiut Administrative Judiciary Court adjourned the hearing (of joined Appeal and Parallel Appeal) to the session of March 27, 2021, and then to April 24, 2021, for the parties to submit an official copy of Cairo’s State Council Administrative Judiciary Court ruling of February 24, 2021, that dismissed the case considering the plaintiff’s lack of standing. On May 22, 2021, ACC submitted to the Assiut Administrative Judiciary Court a copy of Cairo’s State Council Administrative Judiciary Court ruling of February 24, 2021 (dismissing case no. 16348/71J). The court decided to set the joined Appeal and Parallel Appeal for adjudication at the session of June 29, 2021, but the session was adjourned for the sixth time to be held on February 28, 2022. On February 28, 2022, the court issued a judgment ruling for the dismissal of the Appeal and Parallel Appeal.

Also, on February 23, 2014, three plaintiffs filed a lawsuit before the Assiut Administrative Judiciary Court requesting the cancellation of the resolutions taken by the Holding Company’s shareholders during the extraordinary general shareholders meeting pursuant to which it was agreed to sell ACC’s shares and enter into the Share Purchase Agreement in 1999. A hearing held on May 17, 2014 was adjourned in order for the State Commissioner Authority (the “SCA”) to prepare a report to be submitted for the consideration of the Assiut Administrative Judiciary Court. On September 4, 2014, ACC received the report issued by the SCA which is non-binding to the Assiut Administrative Judiciary Court. On December 11, 2014, the Assiut Administrative Judiciary Court resolved to refer the case to the 7th Circuit of Cairo’s State Council Administrative Judiciary Court. The 7th Circuit of Cairo’s State Council Administrative Judiciary Court decided to adjourn to July 25, 2015 in order to review the parties’ pleadings. On this hearing held on July 25, 2015, the 7th Circuit of Cairo’s State Council Administrative Judiciary Court adjourned the case to September 3, 2015 for passing judgment. At the session held on September 3, 2015, the 7th Circuit of Cairo’s State Council Administrative Judiciary Court ruled for staying the proceedings until the High Constitutional Court pronounces itself with regards to the challenges against the constitutionality of Law 32/2014. As of December 31, 2022, we still do not have sufficient information to assess the likelihood of the 7th Circuit of Cairo’s State Council Administrative Judiciary Court cancelling the resolutions adopted by the Holding Company’s shareholders, or, if such shareholders’ resolutions are cancelled, how would such cancellation would affect us. However, if adversely resolved, we do not believe the resolution in this first instance would have an immediate material adverse impact on our results of operations, liquidity and financial condition as there are different legal recourses that we could take. However, if we exhaust all legal recourses available to us, a final adverse resolution of this matter could have a material adverse impact on our operations, liquidity and financial condition.

On April 22, 2014, Law 32/2014, which regulates legal actions to challenge agreements entered into by the Egyptian State (including its ministries, departments, special budget entities, local administrative units, authorities and state-participated companies) and third parties, was published in the Official Gazette, becoming effective on April 23, 2014, subject to its presentation, discussion and approval by the House of Representatives 15 days after it holds its first session. As per the provisions of Law 32/2014, and considering certain exceptions, only the parties to these agreements have standing to challenge the validity of an agreement. During October and November 2015, parliamentary elections to the House of Representatives took place and the elected House of Representatives started to hold its sessions on January 10, 2016, as expected, and Law 32/2014 was discussed and ratified on January 20, 2016, as legally required. As of December 31, 2022, a constitutional challenge has been filed by a third party against Law 32/2014 before the High Constitutional Court. The High Constitutional Court scheduled a hearing for May 6, 2017 to proceed with the constitutional challenge that was filed against Law 32/2014 after the SCA had submitted its report with respect to the case. On May 6, 2017, the court decided to refer the case back to SCA to prepare and submit a complementary report on the merits. The SCA has submitted its commentary report upholding the constitutionality of Law 32/2014 and a new hearing has been scheduled before the High Constitutional Court on January 14, 2023. As of December 31, 2022, considering the abovementioned commentary report from the SCA, we believe the High Constitutional Court will uphold Law 32/2014, but if the High Constitutional Court dismisses Law 32/2014, this could adversely impact the ongoing matters regarding the Share Purchase Agreement, which could have a material adverse impact on our operations, liquidity and financial condition.

See “Recent Developments—Recent Developments Relating to Our Regulatory Matters and Legal Proceedings—Other Legal Proceedings—Egypt Share Purchase Agreement.”

Maceo, Colombia—Legal Proceedings in Colombia

On August 28, 2012, CEMEX Colombia entered into a memorandum of understanding (the “MOU”) with CI Calizas y Minerales S.A. (“CI Calizas”) to acquire land, a mining concession, an environmental license, free trade zone benefits and related assets necessary to carry out the construction by CEMEX Colombia of a new integrated cement plant in the Antioquia department near the municipality of Maceo, Colombia (the “Maceo Project”). In connection with the MOU, CI Calizas was represented by a non-governmental individual (the “Representative”).

After the execution of the MOU, one of CI Calizas’ former shareholders was linked to a domain extinction by the Colombian Attorney General’s Office (the “Attorney General’s Office”) that, among other measures, suspended CI Calizas’ ability to transfer certain assets to CEMEX Colombia as required by the MOU (the “Affected Assets”). To protect its interests in the Affected Assets, CEMEX Colombia joined the domain extinction proceeding and cooperated with the Attorney General’s Office. CEMEX Colombia also requested the dismissal of the domain extinction against the Affected Assets. On May 2, 2016, in order to collect further evidence, the Attorney General’s Office denied CEMEX Colombia’s request for the dismissal of the domain extinction proceeding. The domain extinction is in its evidence stage and we expect that the Attorney General’s Office’s final decision as to whether it will proceed with the domain extinction with respect to the Affected Assets could take five to ten years.

In July 2013, CEMEX Colombia entered into a five-year lease agreement (the “Lease Agreement”) with a depository that had been designated by the Colombian National Narcotics Directorate (Dirección Nacional de Estupefacientes) (the “CNND”) with respect to the Affected Assets. The Lease Agreement, along with an accompanying governmental mandate, authorized CEMEX Colombia to continue the work necessary for the construction and operation of the Maceo Project during the domain extinction proceeding. The Lease Agreement expired on July 15, 2018. Notwithstanding the expiration of the Lease Agreement, CEMEX Colombia was entitled to continue using the Affected Assets pursuant to the terms of the accompanying mandate.

On April 12, 2019, CEMEX Colombia reached a conciliatory agreement with the Colombian Administrator of Special Assets (Sociedad de Activos Especiales S.A.S) (the “SAE”), CI Calizas and Zona Franca Especial Cementera Del Magdalena Medio SAS (“ZOMAM”) before the Public Prosecutor’s Office (Procuraduría General de la Nación) and signed a contract of Mining Operation, Manufacturing and Delivery Services and Leasing of Properties for Cement Production (the “New Lease Agreement”), allowing CEMEX Colombia to operate the Maceo Plant. CEMEX Colombia, under the terms of the New Lease Agreement, will lease the land portion of the Affected Assets for a term of 21 years, that can be extended by another 10 years. The New Lease Agreement will remain in full force and effect regardless of the outcome following the domain extinction proceeding over the Affected Assets unless the criminal judge grants CEMEX Colombia (and one of its subsidiaries) the ownership rights related to the Affected Assets. In such case, the New Lease Agreement will be terminated given that CEMEX Colombia and its subsidiary would be the owners of the Affected Assets and the New Lease Agreement would no longer be required to operate and manage them.

As of December 31, 2022, it is expected that the Maceo Plant will begin operating once the construction of the access road to the Maceo Plant is completed, for which certain permits are yet to be obtained.

Assuming that CEMEX Colombia conducted itself in good faith and considering that its investments in the Maceo Project were incurred with the consent of the SAE and CI Calizas under the Lease Agreement and the accompanying mandate, we believe the value of such investments is protected by Colombian law. Colombian law provides that, if a person builds on another person's property with the knowledge of such other person, the person that built on the property shall be compensated with the value of what was built or otherwise be transferred the property in the event the owner of the property decides to recover possession. We also believe that, during the term of the New Lease Agreement, CEMEX Colombia may use the Affected Assets in order to operate the Maceo Project. In the event that CEMEX Colombia's right to the Affected Assets is extinguished in favor of the government of Colombia, which we believe is unlikely, the SAE may decide not to sell the Affected Assets to CEMEX Colombia. In either case, under Colombian law, CEMEX Colombia would be entitled to compensation for the value of the investments made in the Maceo Project. On November 18, 2021, CEMEX filed a Letter of Intent requesting that the SAE commence the process of selling of ZOMAM, in which CEMEX is interested in participating. If the SAE initiates the process, the sale will be carried out under objective parameters prescribed by law that apply to valuing entities undergoing domain extinction proceedings. As of December 31, 2022, the SAE has not responded to this request. As of December 31, 2022, at this stage of the proceedings, we believe that the likelihood of an adverse result in this matter is not probable, but we are not able to assess the likelihood of CEMEX Colombia receiving an adverse decision relating to the domain extinction proceedings or if the ownership of the assets subject to the MOU will be extinguished in favor of the Republic of Colombia. However, as of December 31, 2022, we believe that an adverse resolution in which CEMEX Colombia is not compensated for the value of its investments in the Maceo Project could have a material adverse effect on our results of operations, liquidity or financial condition.

On December 30, 2013, CEMEX Colombia and the Representative entered into a different memorandum of understanding (the "Land MOU"), pursuant to which the Representative would represent CEMEX Colombia in the acquisition of lands adjacent to the Maceo Project. In connection with the Maceo Project, CEMEX Colombia conveyed to the Representative 43.8 billion Colombian Pesos, including cash payments and interest, (\$9.04 million as of December 31, 2022, based on an exchange rate of 4,842.19 Colombian Pesos to \$1.00). Due to the domain extinction proceeding against the Affected Assets described above, the acquisition of the Affected Assets was not finalized.

On September 23, 2016, CLH disclosed that it had identified irregularities in the process for the purchase of the land related to the Maceo Project and submitted a criminal complaint with the Attorney General's Office. Further, on December 20, 2016, CLH enhanced such filing with additional information and findings obtained as of such date. On June 12, 2018, the Attorney General's Office formally charged two former officers of the Company and the Representative. One of the former officers of the Company entered into a plea bargain and cooperation agreement with the Attorney General's Office, which was approved by the Colombian criminal court in April of 2019. The hearings for the other two individuals will continue during 2022.

On September 23, 2016, CLH and CEMEX Colombia terminated the employment of the Vice President of Planning of CLH, who was also CEMEX Colombia's Director of Planning, and the Legal Counsel of CLH, who was also the General Counsel of CEMEX Colombia. In addition, effective September 23, 2016, the Chief Executive Officer of CLH, who was also the President of CEMEX Colombia, resigned from both positions. On October 4, 2016, in order to strengthen levels of leadership, management and corporate governance practices, the Board of Directors of CLH resolved to split the roles of Chairman of the Board of Directors of CLH, Chief Executive Officer of CLH and President of CEMEX Colombia, and appointed a new Chairman of the Board of Directors of CLH, a new Chief Executive Officer of CLH, a new President of CEMEX Colombia and a new Vice President of Planning of CLH and CEMEX Colombia. A new legal counsel for CLH and CEMEX Colombia was also appointed during the fourth quarter of 2016.

Additionally, pursuant to the requirements of CEMEX, S.A.B. de C.V.'s and CLH's audit committees, CEMEX Colombia retained external counsel to assist CLH and CEMEX Colombia to collaborate as necessary with the Attorney General's Office, as well as to assist on other related matters. A forensic investigator in Colombia was also engaged.

The Attorney General's Office is investigating the irregularities in connection with the transactions conducted pursuant to the MOU and the Land MOU, as well as other matters regarding our business in Colombia. Such investigations are running their due course but have not been concluded, and, as such, we cannot predict what actions, if any, the Attorney General's Office may implement. Any actions by the Attorney General's Office and any actions taken by us in response to the aforementioned irregularities regarding the Maceo Project, including, but not limited to, the termination of employment and resignation of the aforementioned executives and further investigations in Colombia, could have a material adverse effect on our results of operations, liquidity or financial condition.

On December 7, 2020, CLH, acting as a shareholder of CEMEX Colombia, filed a lawsuit before the Colombian Business Superintendency (Superintendencia de Sociedades de Colombia) requesting a determination of inefficacy and subsequent declaration of invalidity and nonexistence of the capitalization in kind made by CEMEX Colombia to ZOMAM on December 11, 2015. The lawsuit is based on the argument that commercial law requirements applicable to a capitalization process were not complied with at the time of the capitalization. On December 6, 2022, the Colombian Business Superintendency denied the claims of the lawsuit, and therefore, on December 13, 2022, CLH filed an appeal for this decision to be reviewed. As of December 31, 2022, the decision on such appeal is pending. If a favorable final resolution is obtained, the aforementioned capitalization would be reversed, and the assets contributed to ZOMAM, which had a value of \$43 million, would revert to CEMEX Colombia in exchange for the shares in ZOMAM that had been issued as a result of this capitalization. These effects would only be reflected in CEMEX Colombia's financial statements if a final favorable resolution is obtained. Given ZOMAM's consolidation, no effects in our consolidated financial statements would arise from a potential favorable resolution.

Investigations related to ongoing matters in Colombia and certain other countries

As discussed in "Business—Regulatory Matters and Legal Proceedings—Other Legal Proceedings—Maceo, Colombia—Legal Proceedings in Colombia," internal audits and investigations by CEMEX, S.A.B. de C.V. and CLH had raised questions about payments relating to the Maceo Project. The payments made to the Representative in connection with the Maceo Project did not adhere to CEMEX, S.A.B. de C.V.'s and CLH's internal controls. As announced on September 23, 2016, the CLH and CEMEX Colombia officers responsible for the implementation and execution of the above-referenced payments were terminated and the then Chief Executive Officer of CLH resigned. In December 2016, CEMEX, S.A.B. de C.V. received subpoenas from the SEC seeking information to determine whether there have been any violations of the U.S. Foreign Corrupt Practices Act stemming from the Maceo Project. We had previously disclosed that it was possible that the DOJ and other investigatory entities in other jurisdictions could also open investigations into this matter. In this regard, on March 12, 2018, the DOJ issued a grand jury subpoena to CEMEX, S.A.B. de C.V. relating to its operations in Colombia and other jurisdictions. These subpoenas do not mean that the SEC or DOJ have concluded that CEMEX, S.A.B. de C.V. or any of its affiliates violated the law. CEMEX, S.A.B. de C.V. has cooperated and intends to continue to cooperate fully with the SEC, the DOJ, the Attorney General's Office and any other investigatory entity. As of December 31, 2022, CEMEX, S.A.B. de C.V. is unable to predict the duration, scope, or outcome of the SEC or DOJ investigations, or any other investigation that may arise, or, because of the current status of the SEC and DOJ investigations, the potential sanctions which could be imposed on CEMEX, S.A.B. de C.V., or if such sanctions, if any, would have a material adverse impact on CEMEX, S.A.B. de C.V.'s consolidated results of operations, liquidity or financial position.

Maceo, Colombia—Operational Matters

On October 27, 2016, CLH decided to postpone the commencement of operations of the Maceo Plant. This decision was mainly due to the fact that CEMEX Colombia had not received the permits required to finalize road access to such cement plant. The only existing access to the Maceo Plant cannot guarantee safety or operations and could limit the capacity to transport products from the cement plant. As of December 31, 2022, the process to obtain the permits required to finalize the road access to the Maceo Plant is ongoing. CEMEX Colombia has provided all of the information the authorities have requested in order to grant such permits, but CEMEX Colombia is not able to assess if and when such permits will be received.

On May 21, 2021, CEMEX Colombia and ZOMAM submitted a new request to expand the free trade zone that covers the Maceo Project in order to commission a new clinker line at such cement plant. On June 15, 2022, the corresponding authority issued the resolution by means of which the requested extension was granted, expanding the zone by 144,712.24 m², for a total of 336,438.24 m².

CEMEX Colombia determined that the area covered by the environmental license related to the Maceo Project partially overlapped with a District of Integrated Management (“DIM”) (Distrito de Manejo Integrado), which could limit the granting of the environmental license modification. On October 9, 2017, CEMEX Colombia filed a petition with the Regional Autonomous Corporation of Antioquia (“Corantioquia”) to subtract from the DIM the zoning area covered by the environmental license related to the construction by CEMEX Colombia of the Maceo Project, in order to avoid any overlap between them.

On September 3, 2019, CEMEX Colombia was notified of a favorable decision issued by the Corantioquia Board of Directors to approve subtracting from the DIM an area of 169.2 hectares of the municipality of Maceo. CEMEX Colombia will be responsible for managing the execution of the environmental compensations requested by the Corantioquia Board of Directors, reaffirming its commitment to generate development, employment and community welfare, by preserving the ecosystem and the environment.

The mining concession and the environmental license related to the Maceo Project were held by different legal entities, which is contrary to typical procedure in Colombia. CI Calizas assigned the mining concession and the environmental license to Central de Mezclas S.A. (“Central de Mezclas”), a subsidiary of CEMEX Colombia, in October 2012 and December 2013, respectively. However, in December 2013, the mining concession was assigned back to CI Calizas as a result of the revocation of such mining concession by the Mining Secretariat (Secretaría de Minas) of Antioquia. During the second half of 2016, Corantioquia, the regional environmental agency with jurisdiction over the Maceo Project, requested authorization and consent from Central de Mezclas to reverse the assignment of the environmental license back to CI Calizas.

On February 22, 2018, Central de Mezclas granted such authorization. CEMEX Colombia had previously requested a modification to the environmental license to 950,000 tons of cement per annum, which Corantioquia denied. On July 17, 2020, CEMEX Colombia submitted a new request to modify the environmental license to expand its production to 950,000 tons of cement per annum as initially planned. On February 2, 2021, Corantioquia issued a resolution authorizing CI Calizas’ request to modify the environmental license and CI Calizas challenged such determination to further clarify the details and extent of the license. Following this challenge, on February 12, 2021, Corantioquia resolved to modify the environmental license, allowing the extraction of up to 990 thousand tons of minerals (clay and limestone) and up to 1,500,000 metric tons of cement annually. On October 22, 2021, a request for amendment of the Environmental License of Maceo Plant was filed, by means of which CEMEX Colombia requested to increase the scope of the production of exploding annually up to 1,300,000 tons of clay and limestone, among other requests.

On August 29, 2020, CEMEX Colombia received a favorable opinion from Corantioquia and the relevant municipality, which deems the industrial and mining use of the land where the Maceo Project is located as suitable. Further requirements are still in process of being fulfilled.

Regarding the permits to complete the construction of various sections of the access road: (i) on November 10, 2020, the Mayor’s Office of Maceo issued the Road Infrastructure Intervention authorization and (ii) on December 11, 2020, the Mayor’s Office issued a decree declaring that the road project is of public utility. Therefore, we can now seek the necessary approvals to obtain the permits to acquire the required properties and build the remainder of the road. Additionally, in accordance with the Colombian Infrastructure Law (Ley de Infraestructura), it is also necessary to obtain the authorization from each of the owners of the land adjacent to the road. As of December 31, 2022, CEMEX Colombia cannot determine with certainty the date when the access road will be completed.

CEMEX Colombia and Central de Mezclas plan to continue to work on solving the issues causing the postponement of the commissioning of the Maceo Plant in order to capture, as soon as reasonably possible, the full operating benefits of this facility in Colombia. CEMEX Colombia believes some of these issues could be related to the domain extinction proceeding against the Affected Assets. As of December 31, 2022, we do not expect to suffer a material adverse impact to our results of operations, liquidity, or financial condition as a result of the Maceo Plant not being commissioned to operate pending resolution of these issues.

One of our subsidiaries in France, CEMEX Granulats Rhône Méditerranée (“CEMEX Granulats”), is a party to a contract executed in 1990 (the “Quarry Contract”) with SCI La Quinière (“SCI”), pursuant to which CEMEX Granulats has drilling rights to extract reserves and conduct quarry remediation at a quarry in the Rhone region of France. In 2012, SCI filed a claim against CEMEX Granulats for breach of the Quarry Contract, requesting the rescission of the Quarry Contract and damages plus interest, totaling an aggregate amount of €55 million (\$58.98 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00), resulting from CEMEX Granulats having partially filled the quarry allegedly in breach of the terms of the Quarry Contract. On May 18, 2016, CEMEX Granulats was notified about an adverse judgment in this matter by the corresponding court in Lyon, France, primarily ordering the rescission of the Quarry Contract and damages plus interest, totaling an aggregate amount of €55 million (\$58.98 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00). This judgment is not enforceable. CEMEX Granulats filed the notice of appeal with the appeal court in Lyon, France. SCI updated its claim for damages to an aggregate amount of €67 million (\$71.85 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00). The judgment of the appeal court was notified to CEMEX Granulats on March 13, 2018. It overrules the first instance judgment but orders the rescission of the Quarry Contract. It also appoints a judicial expert to (i) determine the volume of both excavated materials and backfilling materials and (ii) give their opinion on the potential damages suffered by SCI. This judgment is enforceable. CEMEX Granulats has filed the notice of appeal with the Court of Cassation. The decision was handed down on May 23, 2019, our appeal was dismissed, and the Court of Cassation declared that CEMEX Granulats breached the Quarry Contract. In connection with this matter, judicial experts were appointed by the Lyon Court of Appeals to (i) determine the volume of both excavated materials and backfilling materials at issue and (ii) provide their assessment of the potential damages suffered by SCI. On November 25, 2020, the judicial expert appointed by the Lyon Court of Appeals issued his final report, concluding that the volume of excavated materials and external backfilling materials were calculated at 3.04 million cubic meters and 1.41 million cubic meters, respectively. Based on these volumes, the expert calculated the loss of profits at €0.65 million (\$0.70 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00) and the cost of excavation of the external backfilling materials at €12.35 million (\$13.24 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00). However, the judicial expert clearly states that in his opinion the damages suffered by SCI can only be set based on the loss of profits. SCI, within the proceedings on the merits of this case that have resumed before the Lyon Court of Appeals following the end of the expertise phase, has updated the amount of its claims to €27 million (\$28.95 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00) on the grounds of the excavation of the external backfilling materials. The decision handed down by the Lyon Court of Appeals on November 23, 2022, is in favor of CEMEX Granulats, since the court confirmed the final report of the expert, ruling that the damages of the SCI shall (i) be based on the loss of profits, and (ii) be set at €0.65 million (\$0.70 million as of December 31, 2022, based on an exchange rate of €0.9325 to \$1.00). The SCI may file a notice of appeal before the Court of Cassation within two months of the notification, which took place on December 22, 2022. At this stage of the proceedings, as of December 31, 2022, we are not able to determine the final amount that we would pay in relation to this matter, but we expect that any amounts to be paid should not have a material adverse impact on our results of operations, liquidity and financial condition.

General

As of December 31, 2022, we are involved in various legal and administrative proceedings as well as investigations in some of the jurisdictions where we operate, such as Poland and the Dominican Republic, involving, but not limited to, product warranty claims, commercial claims, criminal claims, environmental claims, claims regarding the procurement and supply of products and services, patent and copyright infringement claims, claims and disputes regarding the transportation of goods and services, indemnification claims relating to divestments and acquisitions and similar types of claims brought against us that have arisen in the ordinary course of business, some of which we have determined do not merit disclosure based on the stage in which any such investigation is at the time of this report, and that we would disclose once the investigation has finalized and based on the results of any such investigation. In addition, the administrative authorities in the countries in which we operate perform periodic audits on our operations, at times, as a result of those audits, we may receive notices to remedy (i.e., pay a fine, pay an interest, modify tax returns, adjust social security payments, cover balances, etc.) certain discrepancies found in the audits, some of which we have determined do not merit disclosure based on either the stage in which any audit is at the time of this report and/or because we believe the corresponding remedy would not have a material adverse effect on our operations, financial position, and results of operations, or that we would disclose once the audit has finalized and based on the results of any such audit, if the results would have a material adverse effect on our operations, financial position, and results of operations. Also, as of December 31, 2022, we have been made aware of claims that have been filed against us that have been either dismissed or rejected that lead to a recourse, appeal or legal action under the applicable legislation has been filed by the party that presented the claim, and in relation to which,

consequently, we have not been formally notified, and that are not included in this report. We, and different organizations or associations to which we belong, also receive various information requests from various governmental and administrative authorities when such authorities are conducting periodic or general reviews of the markets in which we operate. We believe we have made adequate provisions to cover both current and contemplated general and specific litigation risks, and we believe these matters will be resolved without any significant effect on our operations, financial position, and results of operations. We are sometimes able to make and disclose reasonable estimates of the expected loss or range of possible loss, as well as disclose any provision accrued for such loss. However, for a limited number of ongoing legal proceedings, we may not be able to make a reasonable estimate of the expected loss or range of possible loss or may be able to do so but believe that disclosure of such information on a case-by-case basis would seriously prejudice our position in the ongoing legal proceedings or in any related settlement discussions. Accordingly, in these cases, we have disclosed qualitative information with respect to the nature and characteristics of the contingency but have not disclosed the estimate of the range of potential loss.