



Global cement

Global and regional data and insights

2020 updates and forecasts summary
to 2025



The ultimate "intelligence" provider in the global cement sector
cembrgroup.com

CemBR coverage universe



CemBR Forecasts & The CGC™

The largest 90 cement markets in the world representing approximately 95% of global cement consumption.

Detailed data on:

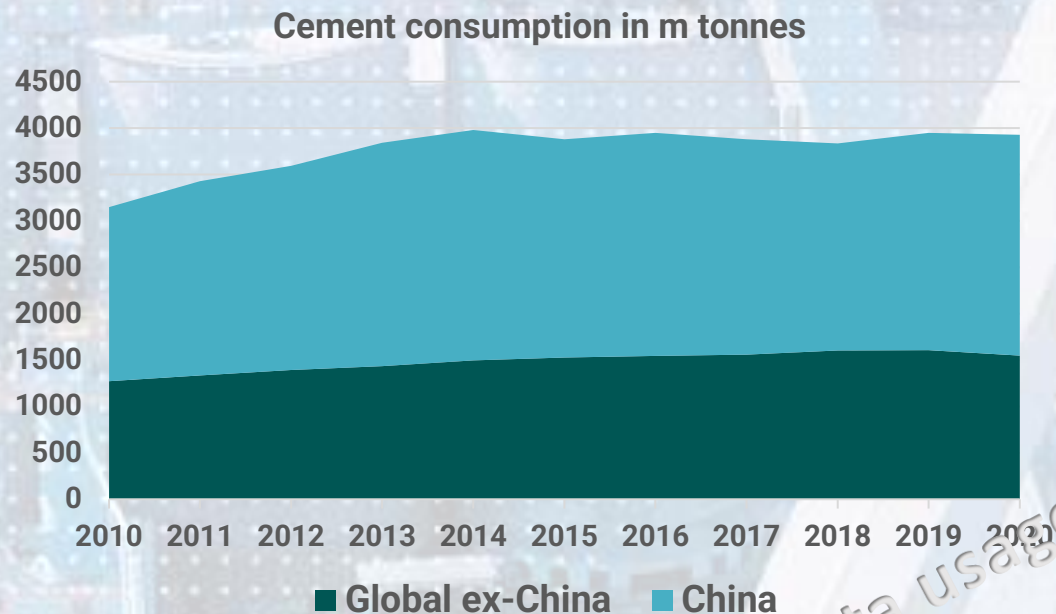
1865 cement producing plants
1350 clinker producing plants
2,300 individual kilns

* All above plant data is ex-China



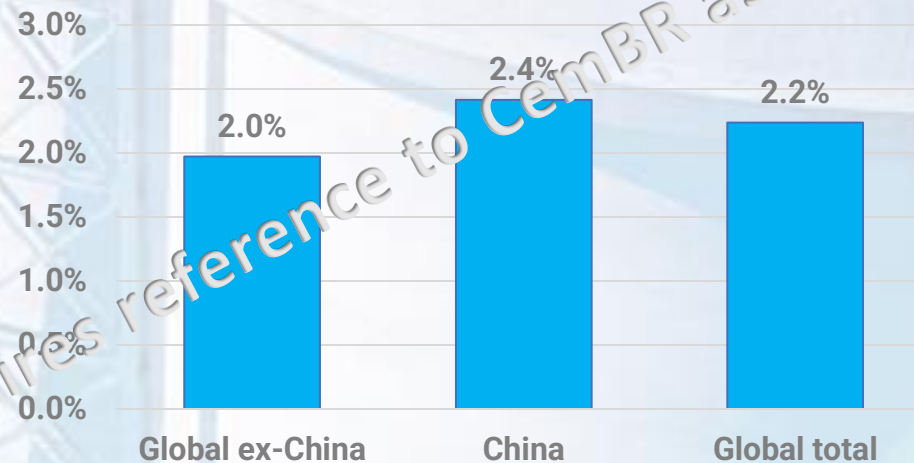
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Historical global cement consumption and the impact of China

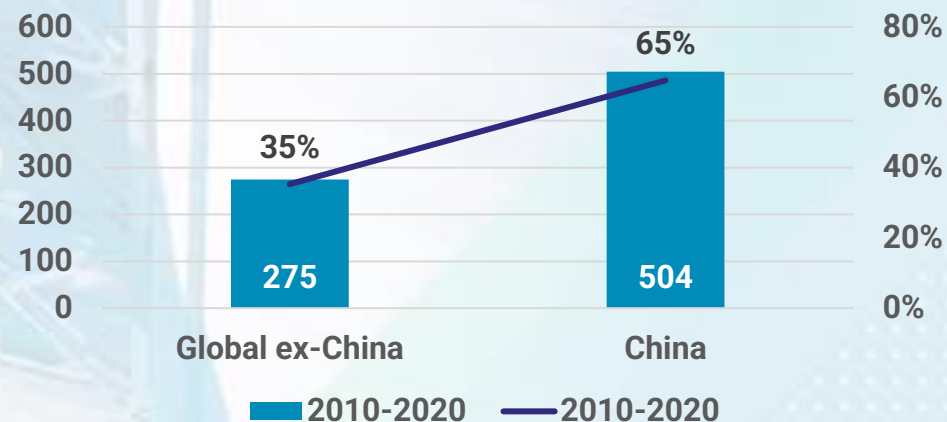


China had the lion share of the global cement growth in the last decade. 65% of volume growth was taken by China. However, the influence of China on the global cement sector is currently limited due to minimal interaction between China and the rest of the World. China's influence in world cement is more evident in the erection of new cement plants.

CAGR 2010-2020



2010 – 2020 additional volumes in m tonnes

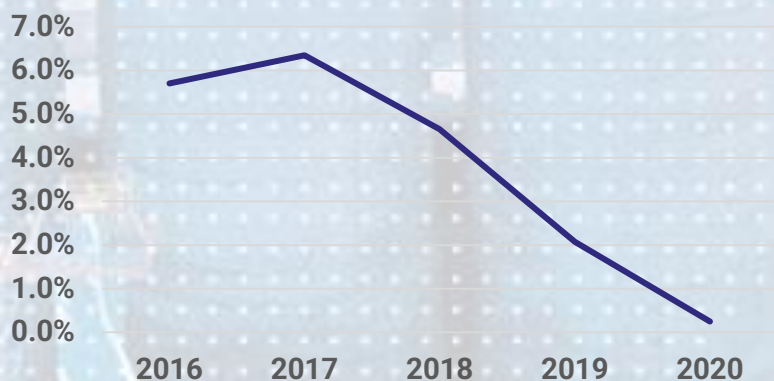


Source:

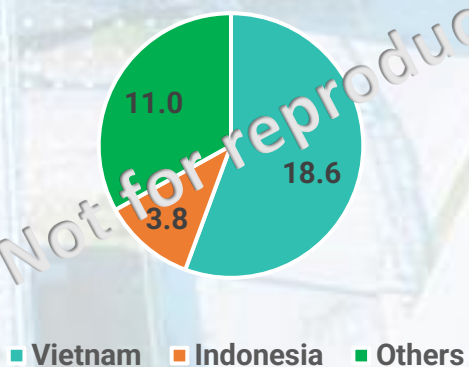


China – interaction with the Rest of the World

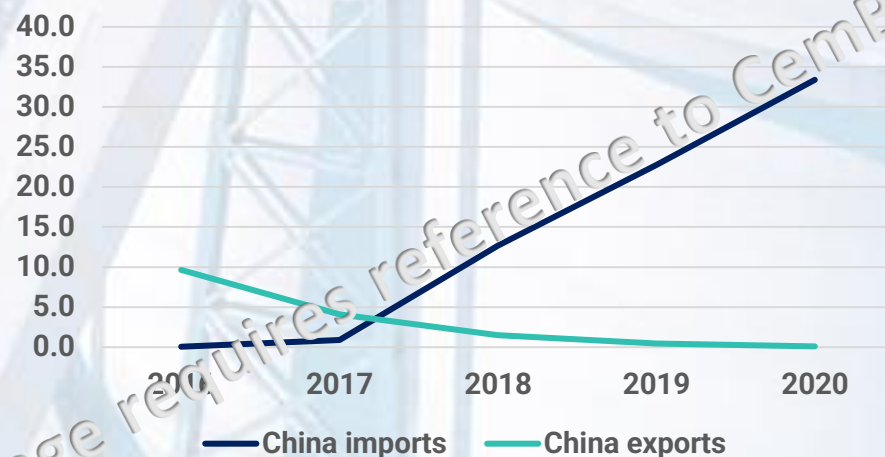
China global interaction - trading as a %ge of total exports



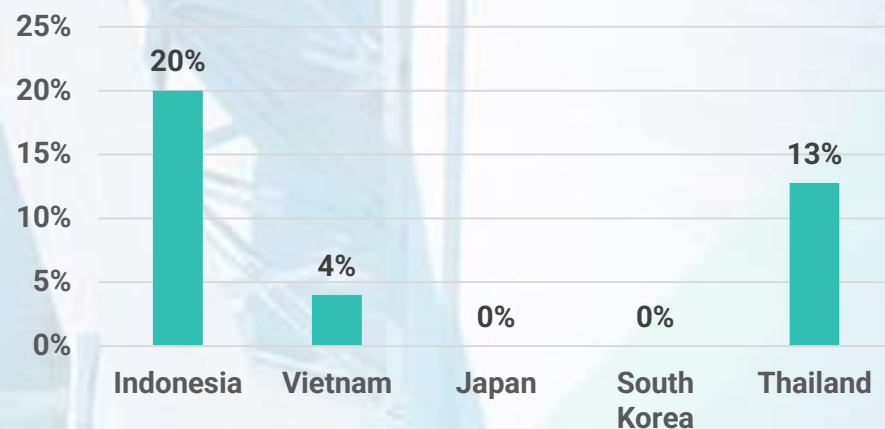
Imported clinker into China in m tonnes - 2020



China global interaction - clinker trading



%age of capacity in international hands



Cement trading between China and the rest of the World has been declining to meaningless levels.

Clinker imports into China have been increasing in the last four years, as coastal Chinese capacity is inadequate.

Five industries account for almost the entire clinker imports into China: Indonesia, Japan, Thailand, South Korea, Vietnam.

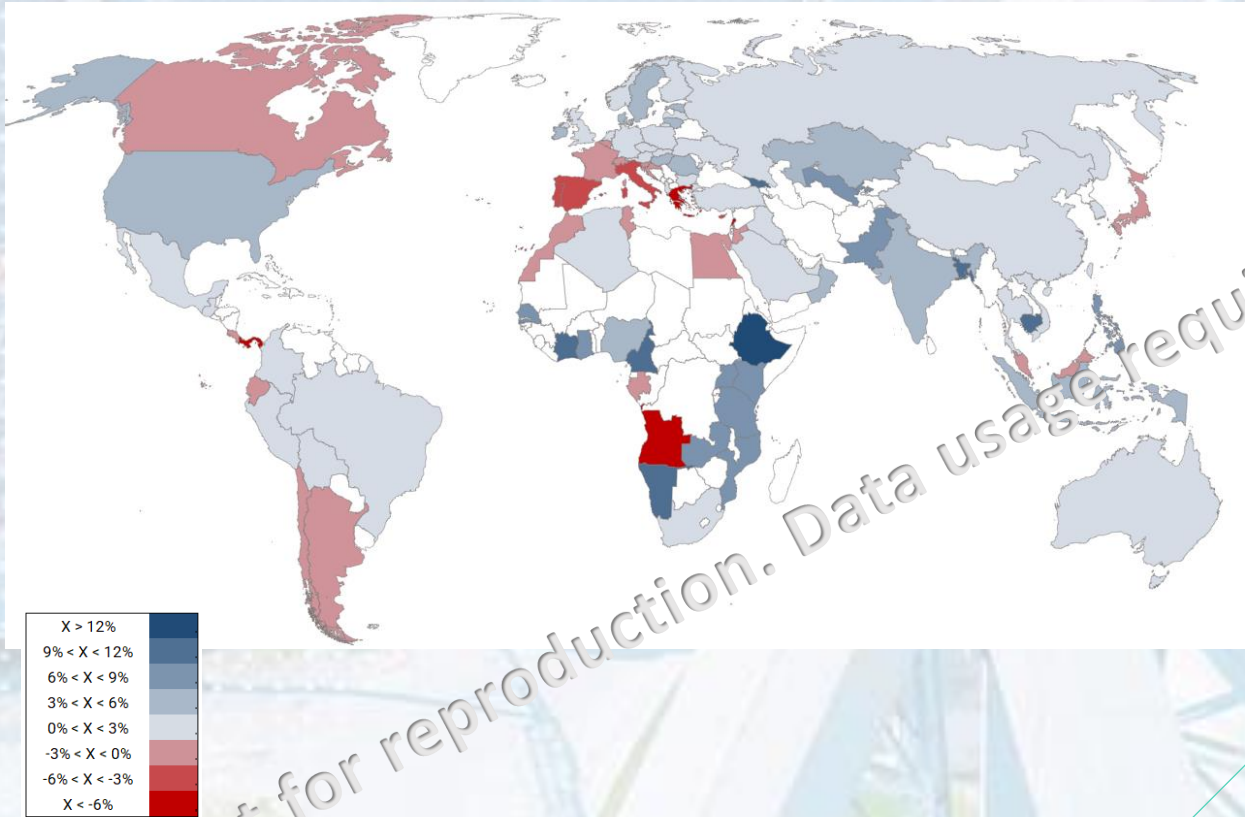
Presence of major international companies in these industries is limited.

Source:



Global cement data 2010 – 2020 & 2020 manufacturing data

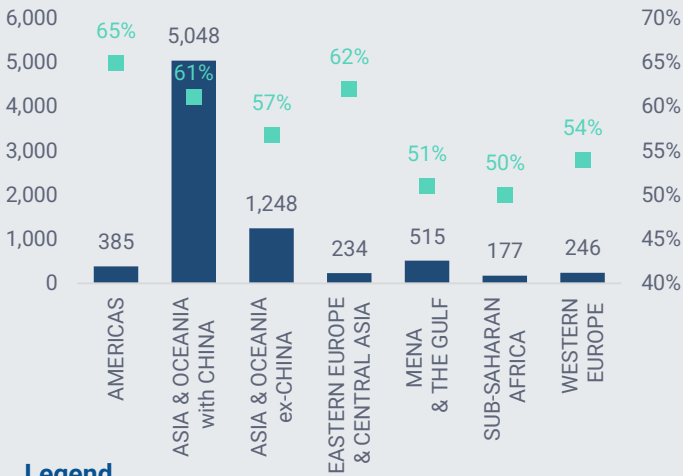
Cement consumption
CAGR (2010-2020)



Manufacturing data 2020 incl. China

Number of cement plants	5,023
Cement capacity (MT)	6,605
Cement capacity growth rate (CAGR 10yr)	3.6%
Cement utilisation rate (%) - Global	60%
Cement utilisation rate (%) - ex-China	57%

Regional cement capacity & utilisation



Legend

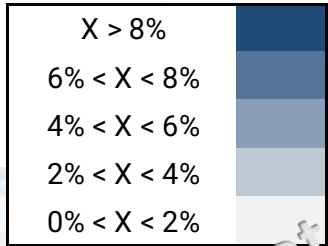
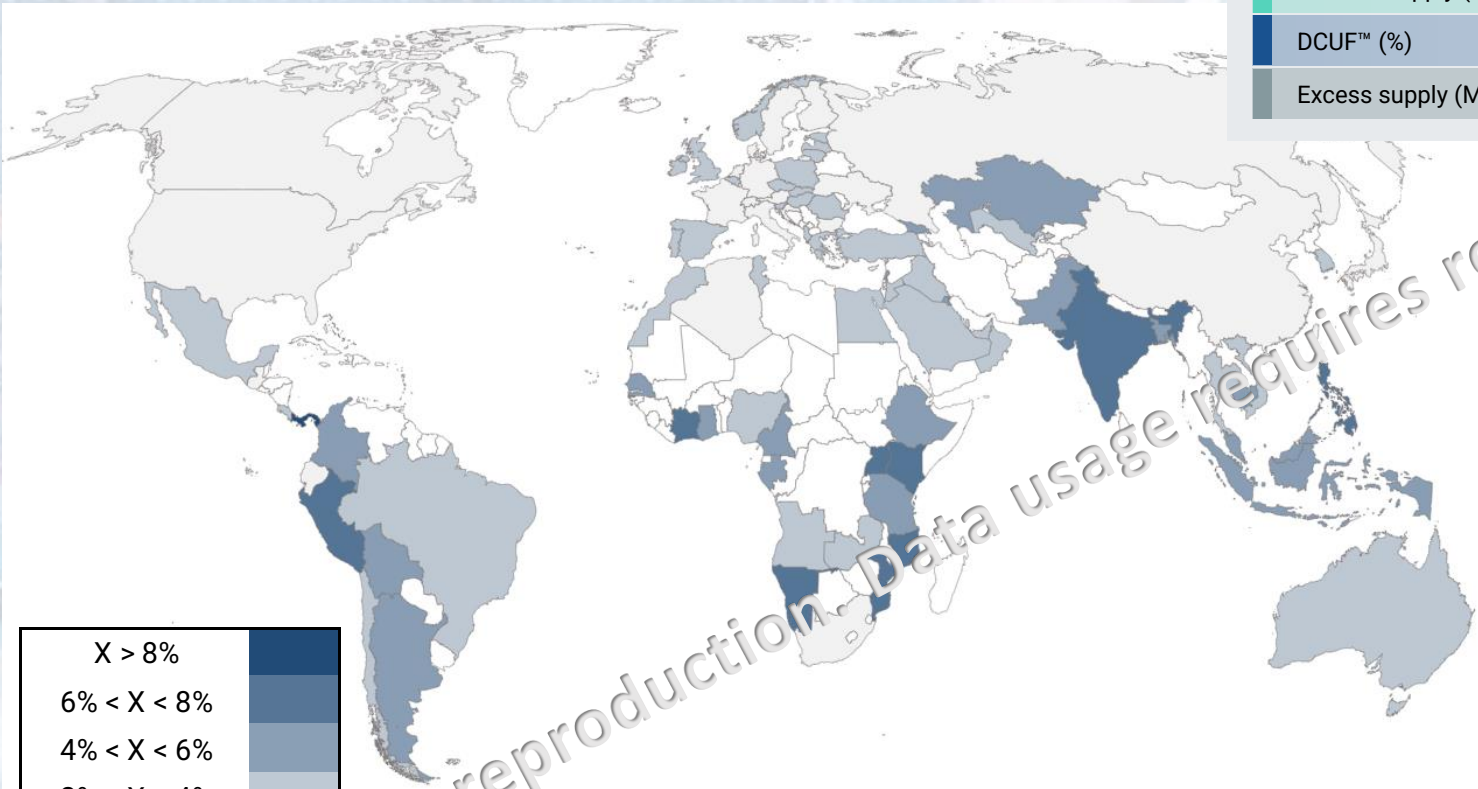
- CEMENT MILLING CAPACITY (MT)
- CEMENT UTILISATION RATE (%)

NB: Chinese cement capacity and plants is an estimate for 2020 only. No detailed record of cement plants in China exists in CemBR's databases.

Source:

Global cement data – forecasts to 2025

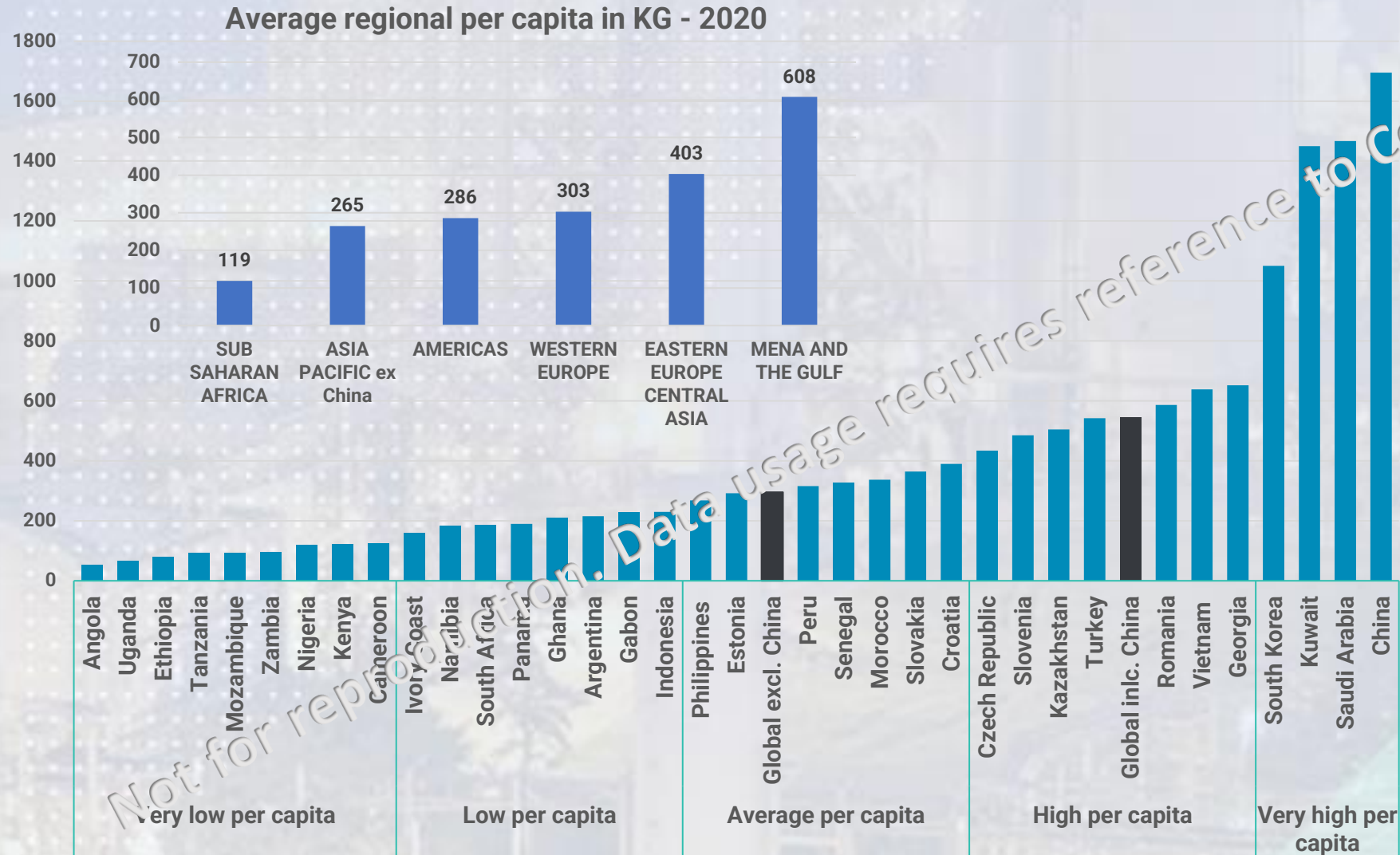
Cement consumption forecast
CAGR (2020A-2025E)



Global ex-China	2019A	2020A	2021E	2022F	2023F	2024F	2025F
Cement consumption (MT)	1,606	1,549	1,648	1,698	1,744	1,790	1,836
Consumption growth rate (%)	0.2%	-3.5%	6.4%	3.0%	2.7%	2.6%	2.6%
Consumption per capita (KG)	300	286	301	307	313	318	323
Cement supply (MT)	2,758	2,805	2,835	2,924	2,987	3,047	3,060
DCUF™ (%)	58%	55%	57%	58%	58%	59%	60%
Excess supply (MT)	1,151	1,256	1,237	1,226	1,243	1,257	1,224

NB: DCUF™ stands for Domestic Capacity Utilisation Factor. This is the ratio of domestic consumption divided by domestic capacity of cement. In other words, there is no allowance for international trading (imports and exports are excluded). This metric indicates the propensity of a market to import/export cement. It is expressed in percentage.

Per capita comparisons – 2020



Average global per capita excluding China at around 286 Kg.

Average global per capita including China at around 576 Kg.

Sub Saharan has the lowest and MENA & The Gulf the highest per capita (ex-China)

Source:



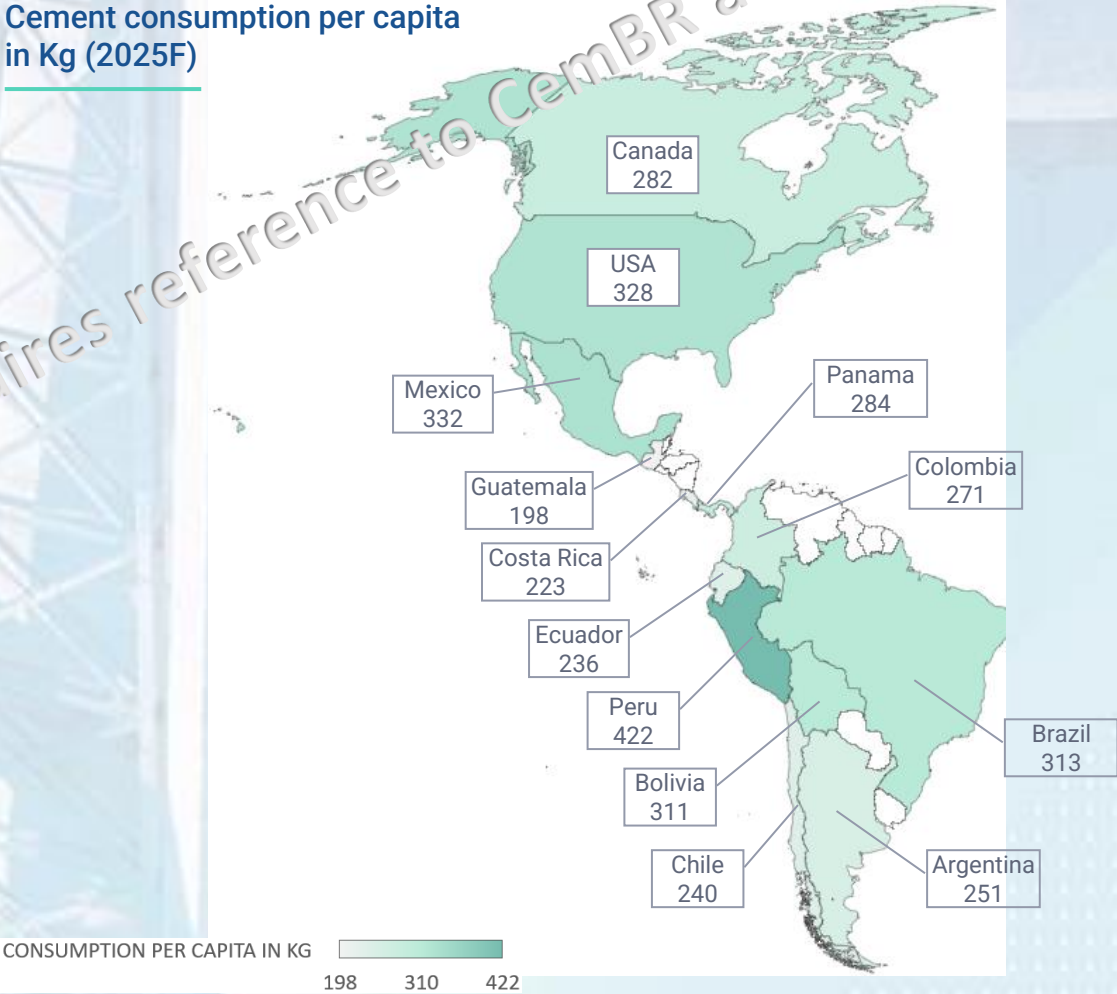
CemBR Region: Americas

Region	2019A	2020A	2021E	2022F	2023F	2024F	2025F
Cement consumption (MT)	259	261	278	283	287	291	295
Consumption growth rate (%)	0.6%	0.9%	6.5%	1.8%	1.4%	1.4%	1.4%
Consumption per capita (KG)	286	286	302	305	308	310	312
Cement supply (MT)	387	385	392	398	399	402	405
DCUF™ (%)	67%	68%	71%	71%	72%	72%	73%
Excess supply (MT)	128	124	114	114	112	111	109
Sub-region	2019A	2020A	2021E	2022F	2023F	2024F	2025F
CENTRAL AMERICA DCUF™ (%)	51%	44%	46%	47%	48%	49%	50%
NORTH AMERICA DCUF™ (%)	76%	78%	80%	80%	81%	82%	83%
SOUTH AMERICA DCUF™ (%)	58%	58%	63%	63%	64%	64%	64%

Sub-regions and countries: North America: Canada, Mexico, USA. Central America: Costa Rica, Guatemala, Panama. South America: Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Peru

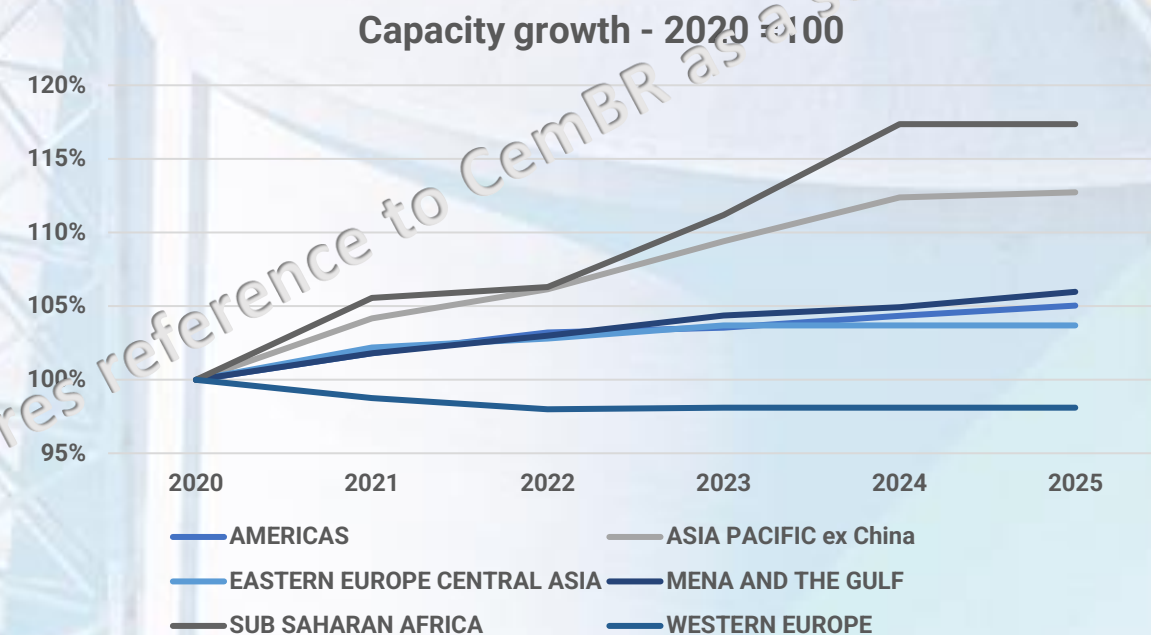
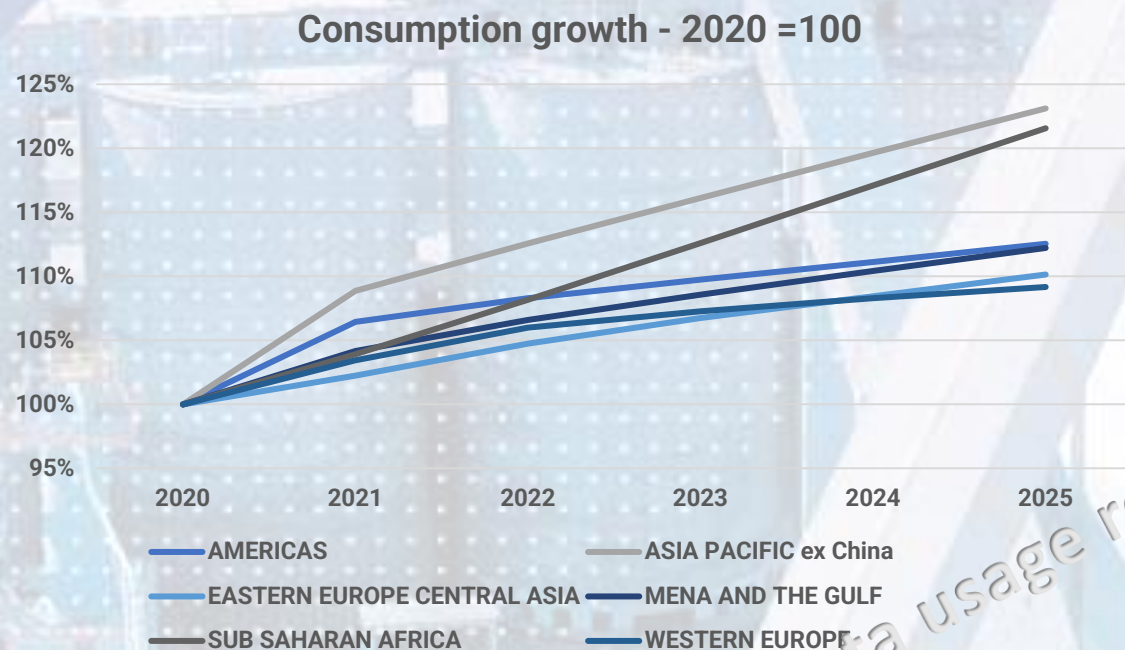
This is an excerpt from CemBR Forecasts. A 232 page report with all regions and the 60 largest markets in the world.

Cement consumption per capita in Kg (2025F)



Source:

Regional consumption and supply growth 2020 – 2025



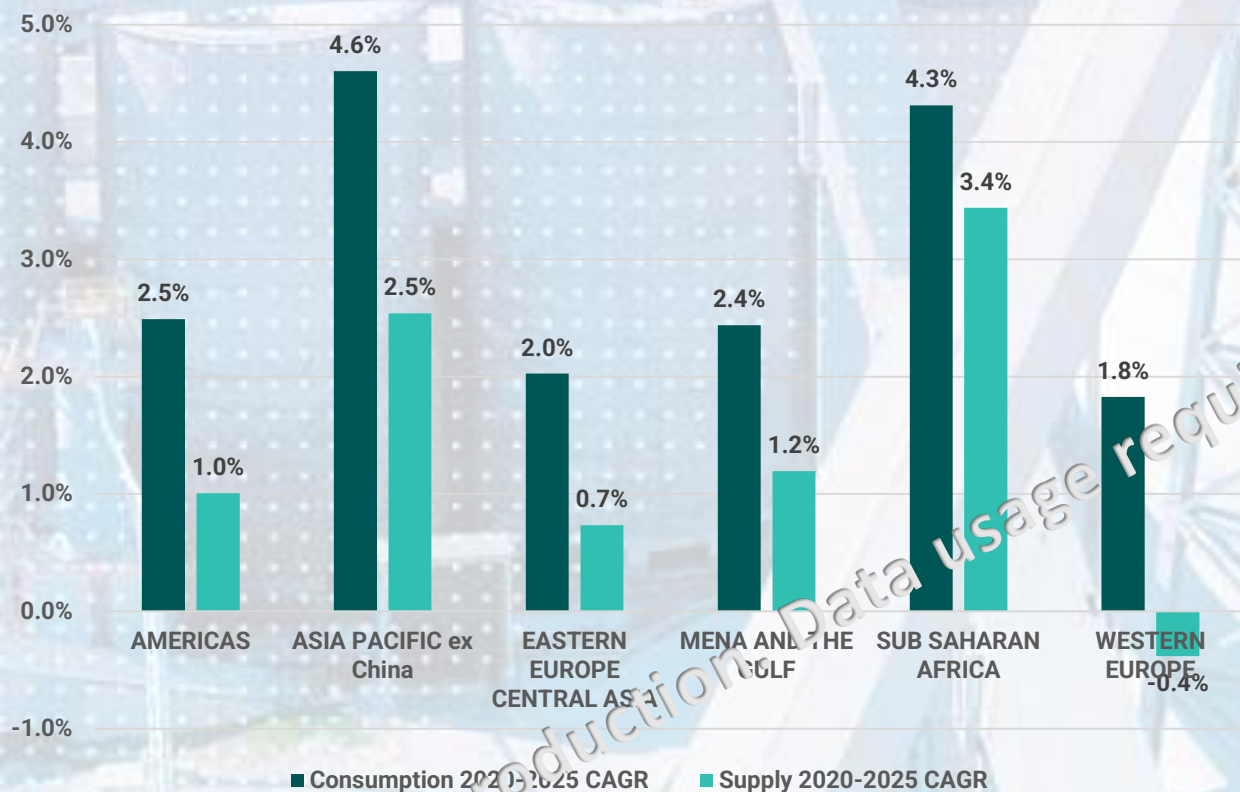
Asia Pacific (ex-China) and Sub Saharan Africa are projected to have the highest consumption growth 2020 – 2025. China's growth is expected more subdued.

The highest capacity growth is expected in Sub Saharan Africa, whereas Western Europe's cement supply is likely to decline (this reflects the already known closures – there may be some more significant closures due to EU ETS Phase IV).

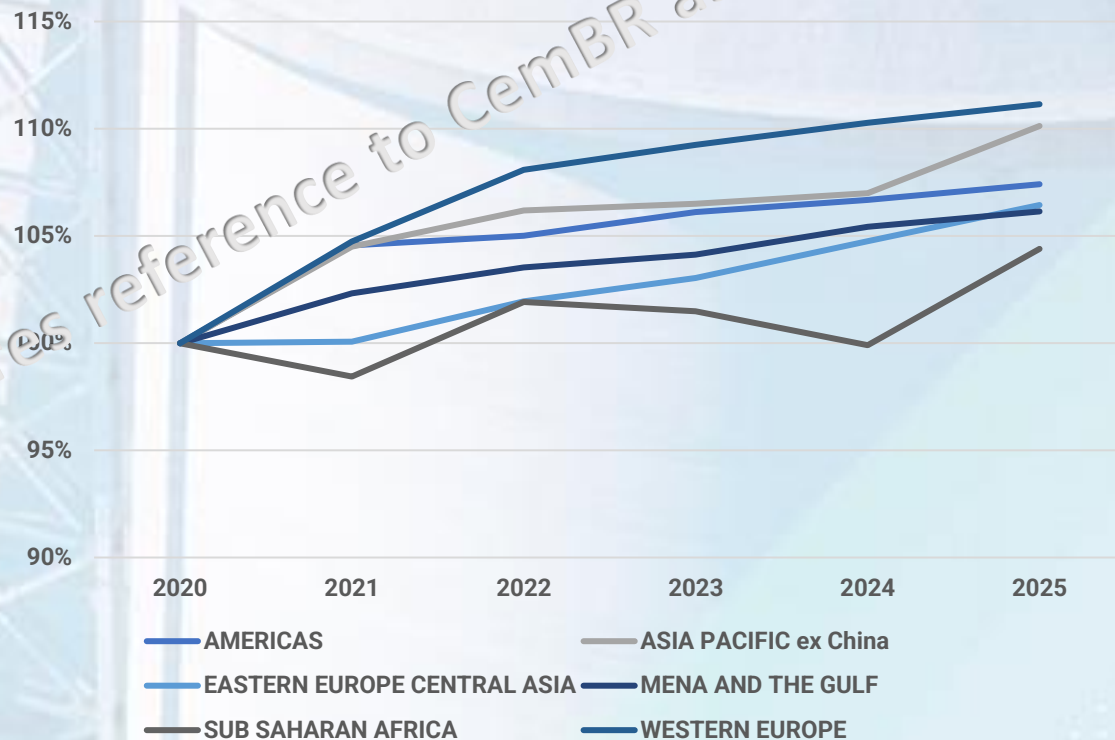
Source:

Regional consumption and supply growth 2020 – 2025, resultant Utilisation rates (DCUF™)

Consumption and supply CAGR 2020-2025



DCUF™ 2020-2025



Western Europe is expected to show the strongest growth in DCUF™, with Asia Pacific (ex-China) following closely.

All regions are expected to show an increase in DCUF™, but Sub Saharan Africa exhibits the lowest growth due to significant new capacity additions.

Source:

CemBR Forecasts report

The CemBR Forecasts report is based on CemBR's extensive cement related databases, including the CGC™ the most comprehensive, up to date and accurate cement-related database and intelligence platform in the world. The database is monitored on a daily basis. The report is prepared by a team of cement related professionals with extensive experience in the sector.

The report covers

95%
of global cement consumption

The projections are based on several research and analysis tools employed by CemBR, and they incorporate the views of CemBR's extensive network of cement professionals. Projections are thus real-life point to point assessments for the first two years, clearly identifying market inflections (including declines). The last three years of projections are based on CemBR's rigorous trend-based model providing realistic outcomes for cement consumption.

Report contents

The CemBR Forecasts report contains two sections:

Global and regional section

Five year global and regional forecasts covering the 90 largest markets representing around 95% of global cement consumption. Indicators include demand, supply, utilisation rates, and growth rates.

Plus, several aggregated cement related indicators globally and regionally for the last ten years including:

- GDP, average GDP per capita and population
- Cement capacity and utilisation rates
- Cement consumption and average consumption per capita
- Number of cement plants
- Top 15 cement markets (by production, consumption, imports and exports)
- Heat maps showing several cement related indicators

Country section

Forward looking data, narrative and five-year projections on the:

60

largest cement markets in the world

Five-year forecasts on...

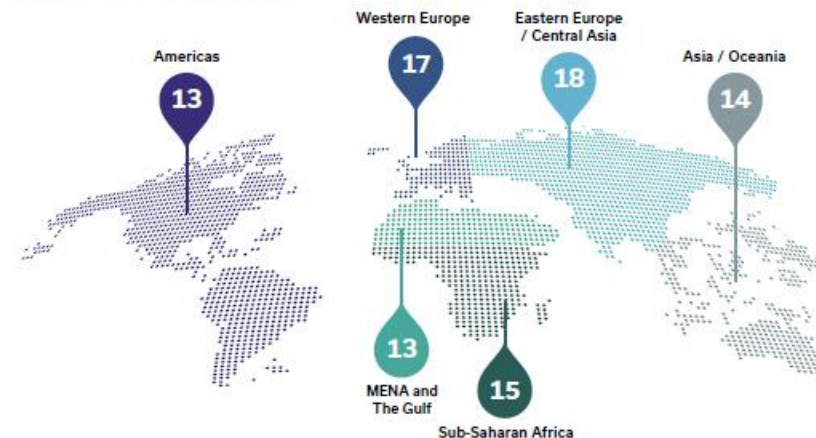
- Macroeconomic and construction indicators
- Cement capacity
- Cement consumption and consumption per capita
- Supply-demand balance, excess/deficit capacity

Data and insights on...

- Macroeconomic and construction activity insights - forward looking
- Current cement assets data (number of plants, cement capacity, cement utilisation rate)
- Narrative and insights on new supply, M&A activity
- Detailed historical data on trading and its impact on supply-demand balance. Insights of impact of trading going forward.
- The data, insights, and cement related indicators contained within the report are extensive, up to date, and accurate reflecting our team's cement expertise and experience.

Regions represented

Number of markets by region



The 90 countries included in the global and regional sections of this report provide a truly representative picture of the cement market, as they represent 95% of total global cement consumption. CemBR is adding more and more countries in our global database, with a view to include all meaningful cement markets in the world soon.

The country section includes the following markets

Americas	Western Europe	Eastern Europe / Central Asia	MENA and The Gulf	Sub-Saharan Africa	Asia/Oceania
Argentina	Austria	Croatia	Algeria	Angola	Australia
Bolivia	Belgium	Czech Republic	Egypt	Ethiopia	Bangladesh
Brazil	France	Hungary	Iraq	Ghana	India
Canada	Germany	Kazakhstan	Morocco	Kenya	Indonesia
Chile	Greece	Poland	Qatar	Mozambique	Japan
Colombia	Ireland	Romania	Saudi Arabia	Nigeria	Malaysia
Ecuador	Italy	Russia	Tunisia	Senegal	Pakistan
Mexico	Portugal	Ukraine	Turkey	South Africa	Philippines
Peru	Spain	Uzbekistan	United Arab Emirates	Tanzania	South Korea
USA	Switzerland			Uganda	Thailand
	UK				Vietnam

These 60 markets have been selected based on a) their size, b) on their characteristics making them interesting to a larger audience, and c) they represent the most important markets in their respective regions.



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Our websites:

For CemBR Forecasts
cembrgroup.com

For the CGC:
cembrcgc.com