

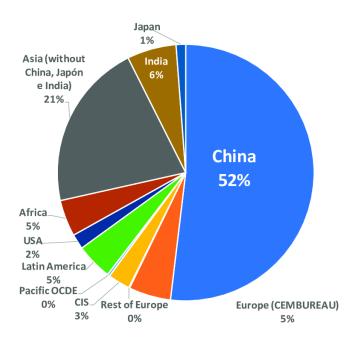
# WORLD MATERIAL FORUM



### Cement and Concrete around the world

In 2020	
14.0 billion m3 2020 volume of concrete globally	40% The percentage of total concrete production for residential market
4.2 billion tonnes 2020 cement production globally	\$440 billion The global cement and concrete products market value in 2020
In 2050	
9.8 billion Estimated world's population by 2050	68% Percentage of population living in cities

Source GCCA

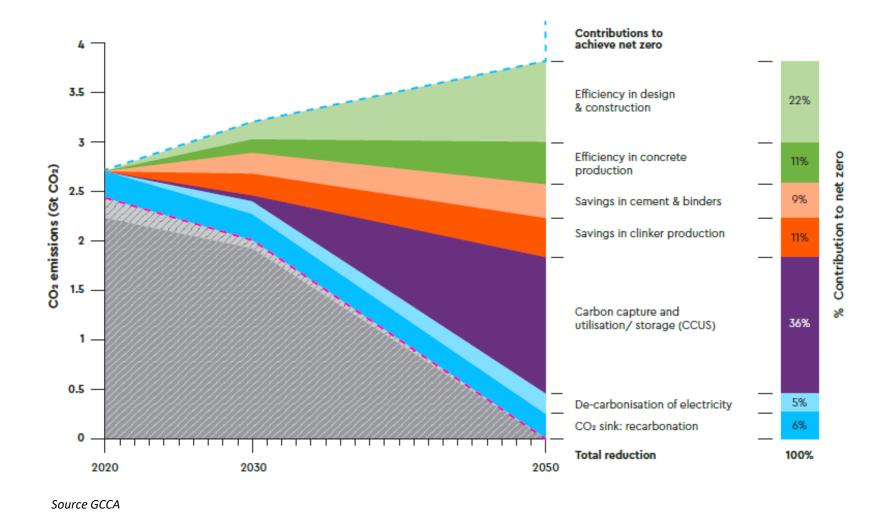


#### Average CO2 emissions (2019)

- World 604 kgCO<sub>2</sub> net / ton of cement
- North America 706 kgCO<sub>2</sub> net / ton of cement
- Brazil 534 kgCO<sub>2</sub> net / ton of cement



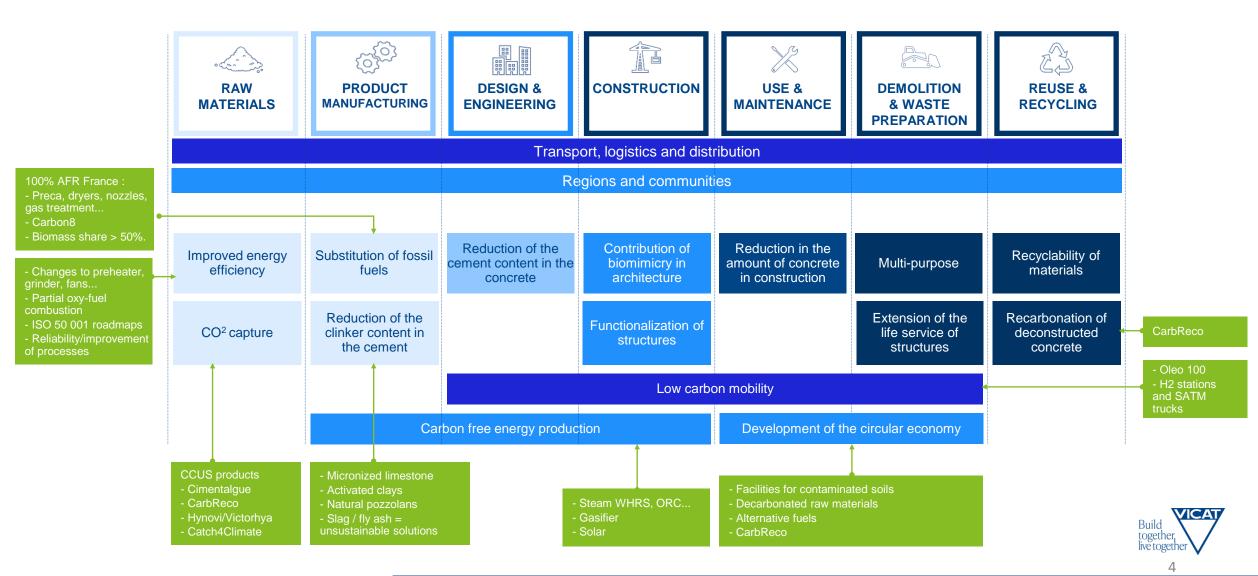
## Net Zero pathway





#### Vicat's Value Chain

#### **ACTIONS ACROSS THE WHOLE VALUE CHAIN IN ORDER TO ACHIEVE CARBON NEUTRALITY**



## Action levers in highly regulated markets



or pozzolans

Reducing the clinker factor by using locally available materials such as clay, limestone



**Example: Xeuilley** 

Replacing fossil fuels by alternative fuels and develop waste treatment as a new business



Example: Reuchenette



Example: Altola



Developing new low-carbon concrete solutions and making bolt-on acquisitions in Concrete.



**Example: 3D Printing** 



Example: Geneva



Preparing the future and benefitting from concentrated production of CO<sub>2</sub> as an economic opportunity for new products



Example: Montalieu



## CIMENTERIE & ÉNERGIES DE DEMAIN

La valorisation du CO2 émis lors de la fabrication du ciment permet de produire des énergies de synthèse au service du territoire, réduisant ainsi les émissions globales de la cimenterie, de l'industrie et des transports.

