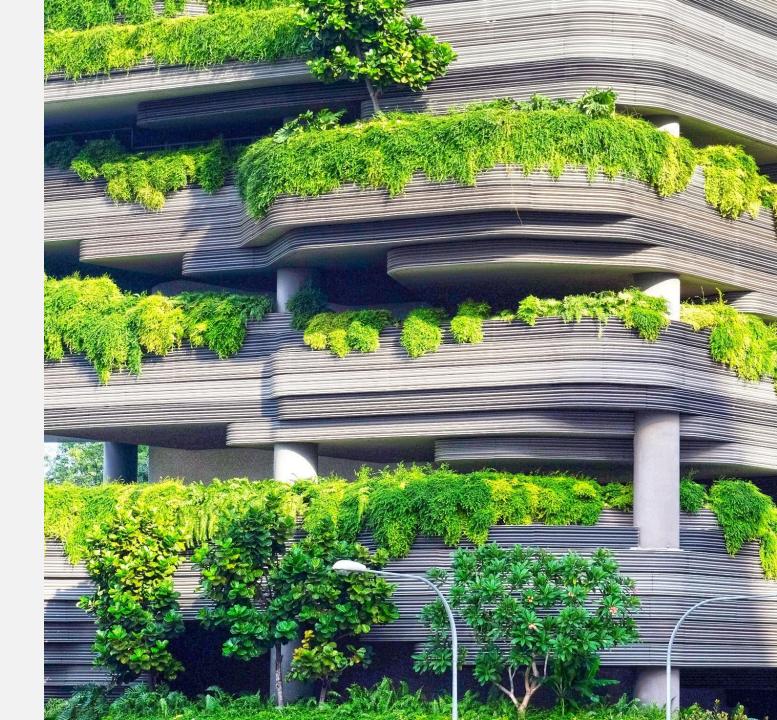
# The Next Generation of Cement and Concrete











## **Our Mission**

The leading provider of viable decarbonization technologies and sustainable solutions for the global concrete construction and building materials industries



### The Global Cement & Concrete Challenge

By 2050...



9.8 billion world population (68% in cities)

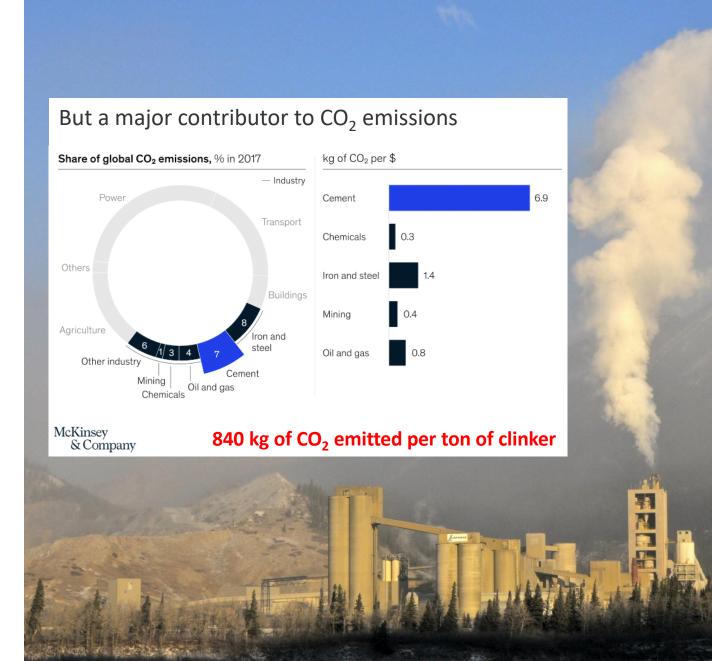


5 gigaton annual global cement production (up 20% from today)



\$1 trillion global concrete market

Sources: McKinsey, CleanTechnica, ClimateWatch, Global Cement and Concrete Association





## **Industry Response to the Global Challenge**



#### Solidia's Focus

New technologies, formulas, and products to address this challenge















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### **Solidia Solutions**

CO<sub>2</sub> abatement through emissions reduction and CCUS in cement and concrete manufacturing



**Reduce CO<sub>2</sub> emissions** 

- ↓ thermal energy
- ↓ calcination



**Capture CO<sub>2</sub> gas** 

• mineralize CO<sub>2</sub>



Avoid high embodied CO<sub>2</sub>

• replace Portland cement

## **Solidia Advantage**

Measurable improvements to plant operations, product performance and sustainability

#### Solidia Cement™



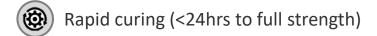






 $\checkmark$  CO<sub>2</sub> gas emissions by up to 30%

#### Solidia Concrete™

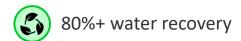








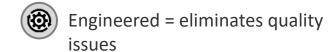


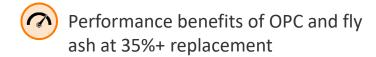




#### Solidia SCM<sup>TM</sup>







- Increased later age strengths
- Reduced permeability
- Enhanced durability
- Waste CO₂ utilization









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### Path Forward: Collaboration is Key

Ecosystem partners are key to Solidia's success and help pave the way to our commercial success



R&D, innovation, technology & process development



Market acceptance and adoption



Standardization of materials and building life cycle assessment



Progressive policies, regulations, and codes & standards



Recognized carbon value and industrial carbon delivery infrastructure



Financial incentives and investment









Government





















