

CONSTRUCTION & MATERIALS

As one of the greatest consumers of raw materials globally, as well as a major carbon emitter, the construction & materials industry is radically altering their business models, from the materials they use to the design of the buildings. Material shortages and price volatility, coupled with stakeholder pressure, are incentivizing a sustainable revolution within the industry.

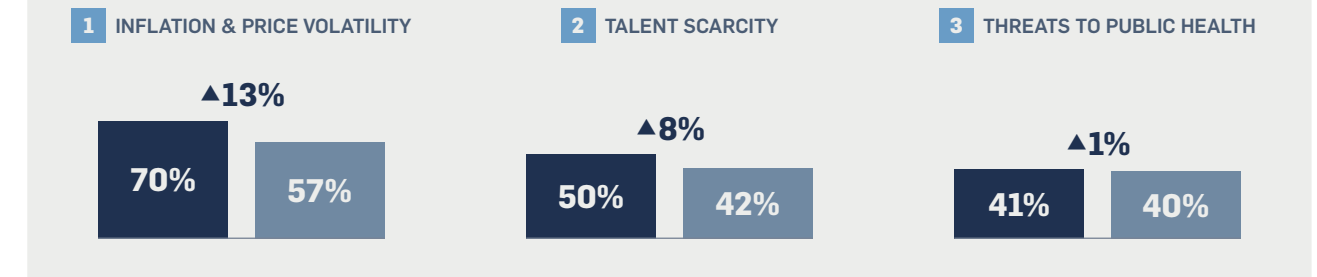
“We need to demonstrate that our industry has a future in a carbon neutral or low carbon economy, which is a tremendous challenge”

Fernando Gonzalez,
Chief Executive Officer of CEMEX



THE MOST PRESSING CHALLENGES

■ CONSTRUCTION & MATERIALS ■ CROSS INDUSTRY



CURRENT LANDSCAPE

TOP RESILIENCE ACTIONS FOR CONSTRUCTION & MATERIALS CEOs



As supply chain disruptions hit the construction & materials industry, resulting in significant delays and backorders, CEOs are investing in digital tools and processes to strengthen their supply chain visibility, enable better scenario planning, and better prepare for inflation and price volatility. In addition to challenges with sourcing raw materials, the industry is also facing talent shortages linked to the pandemic, hindering the industry’s ability to recover. Along with the disruption to the ways of working caused by the pandemic, construction & materials companies are focusing on building strong, resilient cultures, fostering employee well-being, and adapting to hybrid work environments.

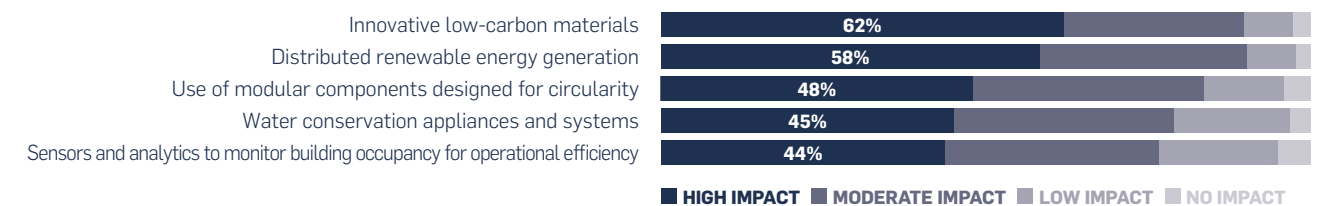
WHERE IS THE INDUSTRY GOING?

TOP SUSTAINABILITY PRIORITIES FOR CONSTRUCTION & MATERIALS CEOs



The United Nations Environment Programme estimates that the built environment accounts for 37% of CO₂ emissions, pressuring the construction & materials industry to adopt low-emitting materials and practices to reduce their footprint.¹ Construction & materials CEOs are responding by investing in green alternatives to basic materials such as aluminum, steel, and concrete. To further accelerate their path to net zero, construction & materials CEOs are unlocking the power of innovative technologies, such as digital twins, to improve resource efficiency – from energy to water usage – across the entire lifecycle of infrastructure.² These technologies and innovations are also fueling a modular component trend within the industry, enabling a more circular model to emerge as items can be disassembled, adapted, or reused for renovations or the construction of new buildings.

TRANSFORMATIVE INNOVATIONS



1. Accenture (2022) [Sustainability in engineering and construction: The way forward.](#)
2. UNEP (2022) [2022 Global Status Report for Buildings and Construction.](#)