

AGRICULTURE

Climate change, resource scarcity, and land deterioration, coupled with an increase in demand due to a rising population, creates a challenging environment for agriculture CEOs to provide affordable, high-quality food for a growing world. Factors such as supply chain disruptions and price volatility, exacerbated by geopolitical tensions, are compounding the pressure, highlighting the need for a fundamental transformation of the global food system.

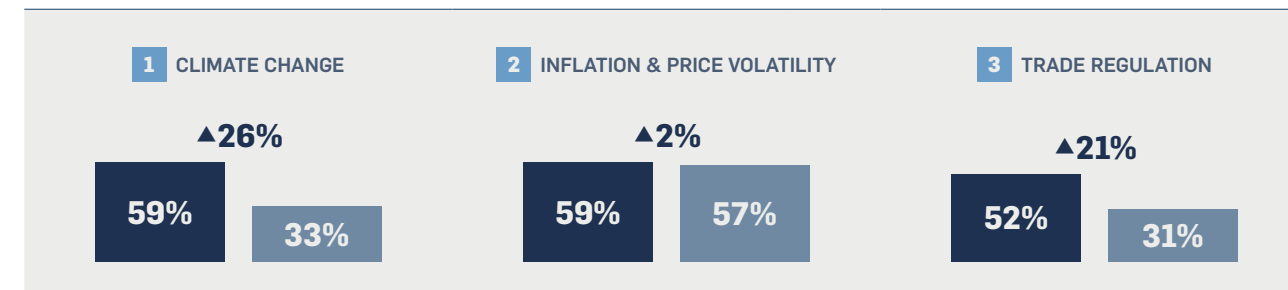
“The reality is we will have to produce more food in the next 40 years than potentially the last 1,000 years, which is an incredible challenge.”

Juan Luciano,
Chairman & CEO of ADM



THE MOST PRESSING CHALLENGES

■ AGRICULTURE ■ CROSS INDUSTRY



CURRENT LANDSCAPE

TOP RESILIENCE ACTIONS FOR AGRICULTURE CEOS



The agriculture industry operates on the front lines of the climate crisis, facing droughts, floods, and extreme weather patterns, along with biodiversity loss, arable land deterioration, and growing water scarcity. All these factors impact daily operations, not only damaging crops, but also straining food system infrastructure. Agriculture CEOs are looking to technology to inform their decision making, starting by focusing on digitization and real-time data collection to identify risks and be more efficient in their use of natural resources. As Sanjay Gupta, MD and CEO of National Commodities Management Services Limited (NCML), describes, “Value chain concerns have been mitigated to some extent by advancements in technologies, such as internet of things, drones, mobility, cloud computing, big data, remote sensing, machine learning and logistics in agriculture and agri-bots which are playing a transformative role in converting traditional agriculture into data-driven, precision farming for generating sustainable profits.”

Connected technologies, such as drones or blockchain-based solutions, are transforming the industry to be able to react to impacts in real time. However, for a large-scale transformation, companies are cognizant that they must upskill their workforce on these new ways of working and engage with the smaller farmers who make up the majority of the supply chain. CEOs are, therefore, investing in strengthening their partnerships with suppliers to enhance visibility and support the adoptions of digital and sustainable practices.

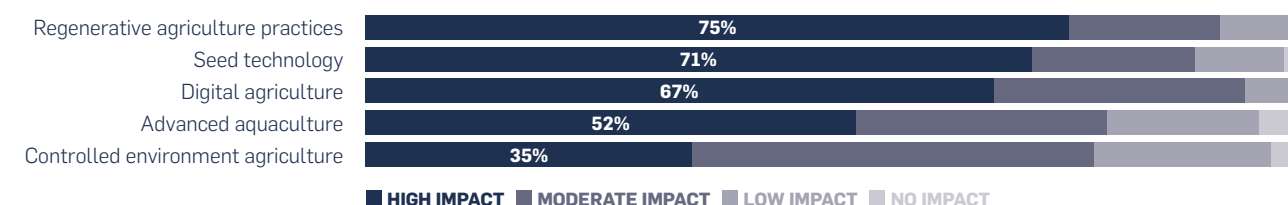
WHERE IS THE INDUSTRY GOING?

TOP SUSTAINABILITY PRIORITIES FOR AGRICULTURE CEOS



The future of agriculture calls for healthier, sustainable practices that create more food to satisfy the needs of rising populations with less impact on the natural environment. While digital practices are a strong first step, a wide-scale transformation is needed. Bold actions, such as adopting regenerative agriculture practices that take into consideration the entire ecosystem, are necessary to this transformation. Regenerative practices not only reduce soil erosion and water usage, but also help protect and restore biodiversity.

TRANSFORMATIVE INNOVATIONS



■ HIGH IMPACT ■ MODERATE IMPACT ■ LOW IMPACT ■ NO IMPACT