

# Regenerative Agriculture

## Where Innovation Meets Tradition

Regenerative agriculture is an outcome-based food production system that nurtures and restores soil health, protects the climate, water resources and biodiversity, and enhances farms' productivity and profitability.



# Regenerative farming practices



**1** Minimize soil disturbance  
ADOPT NO-TILL OR REDUCED-TILL TECHNIQUES



**3** Diversify crops in time and space  
EXPAND CROPS IN ROTATION AND ADOPT INTERCROPPING



**2** Plants in the ground year-round  
PLANT COVER CROPS BETWEEN CASH CROPS TO PREVENT SOIL EROSION AND INCREASE CARBON INPUTS



**4** Precision application of biological and chemical inputs  
DATA-ENABLED PRECISION PLACEMENT OF SEEDS, CROP PROTECTION AND CROP NUTRITION



**5** Integrate livestock when possible  
CROP RESIDUES AND COVER CROP GRAZING, MANURE AND COMPOST INPUTS

# What are the benefits?

Increased yield on existing arable land prevents further deforestation and saves natural habitats

Improved biodiversity

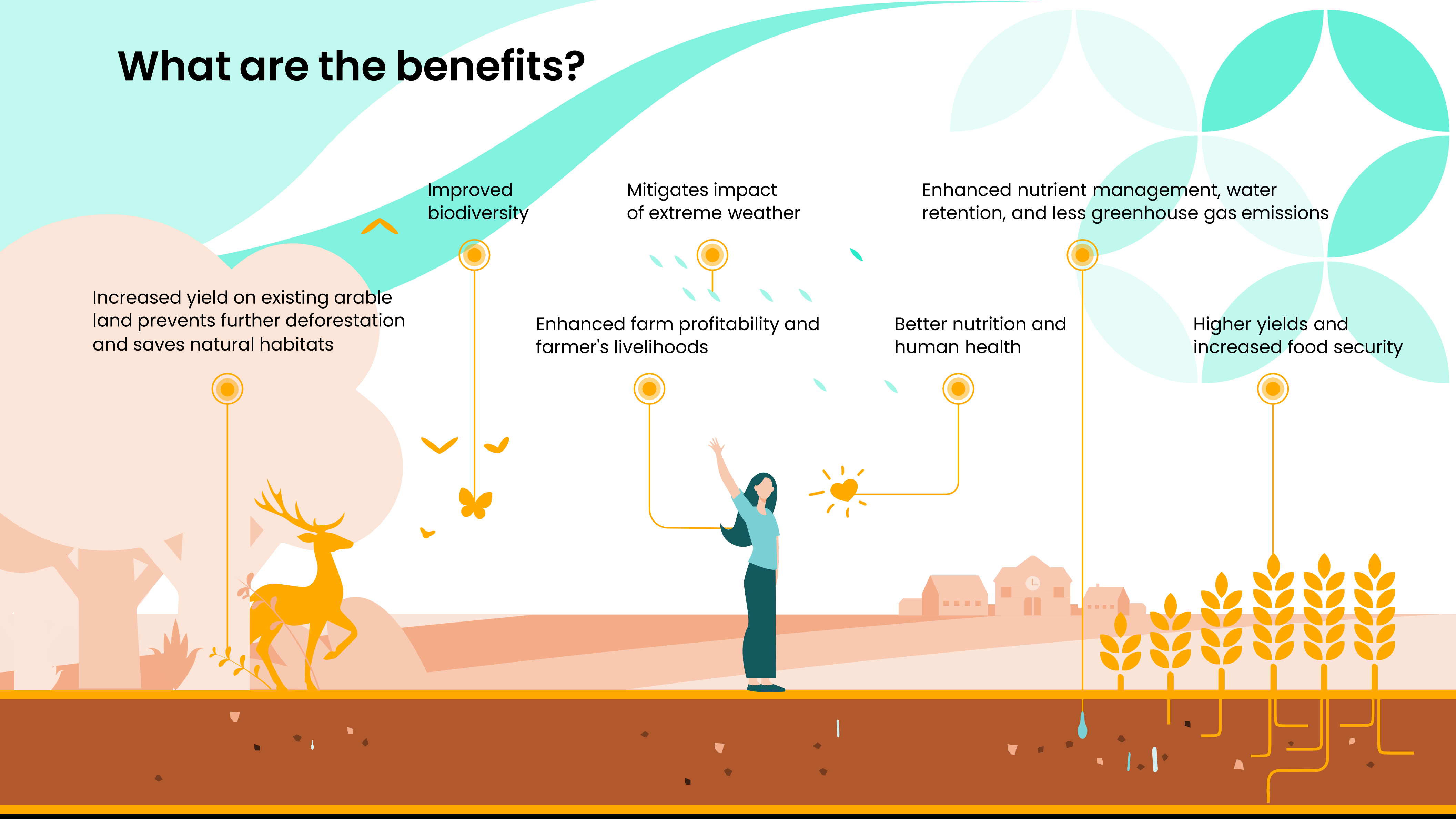
Mitigates impact of extreme weather

Enhanced nutrient management, water retention, and less greenhouse gas emissions

Enhanced farm profitability and farmer's livelihoods

Better nutrition and human health

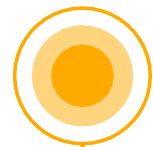
Higher yields and increased food security



# What are the barriers to adopt regenerative agriculture?

If these practices benefit farmers and the planet, what is holding the world's farmers back from adopting these practices?

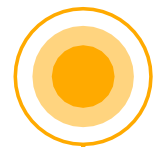
Gaps in scientific understanding



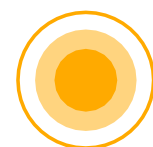
Trusted technical advice



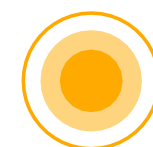
Uncertain return on investment



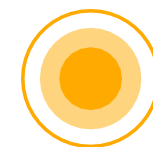
Access to capital



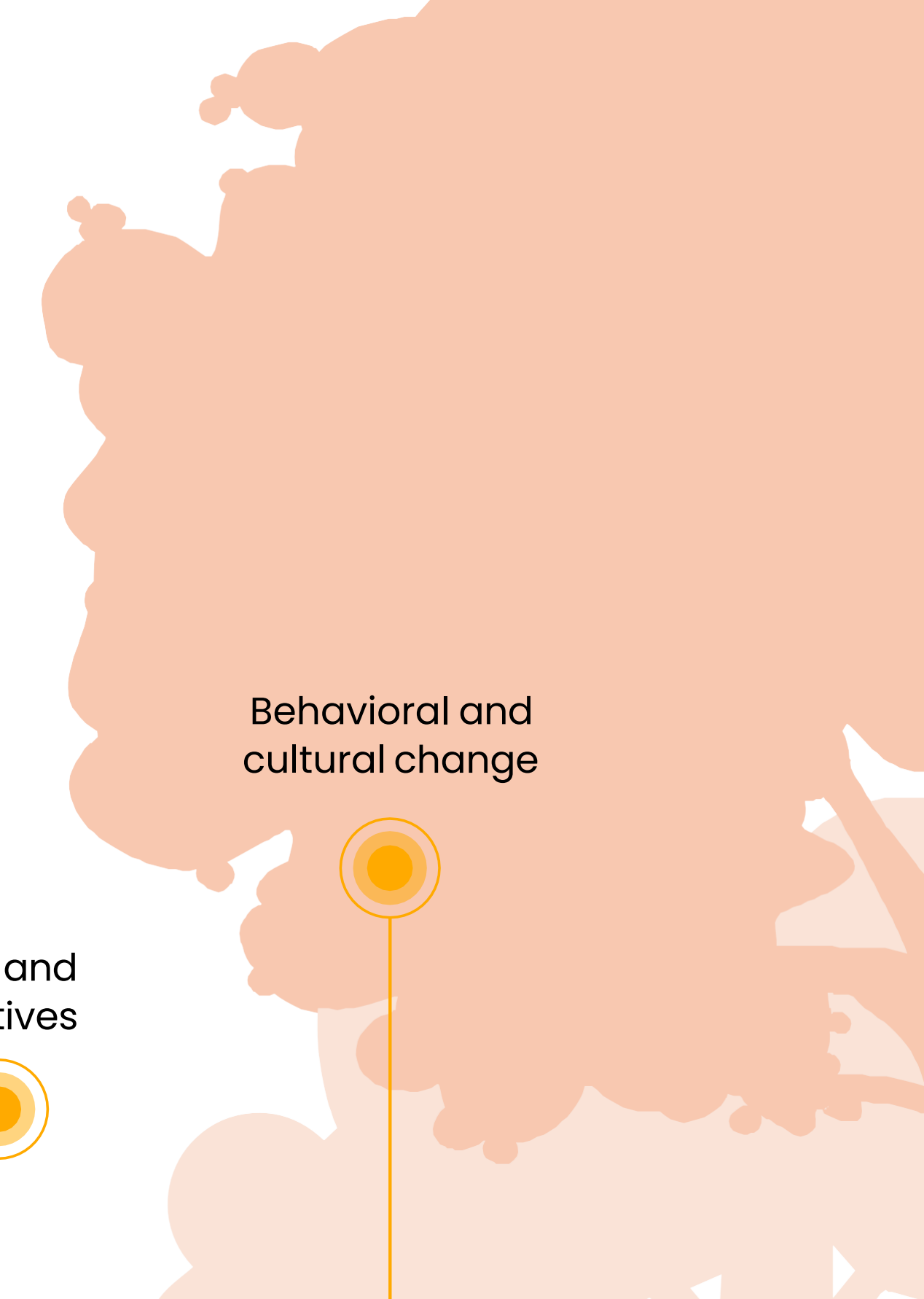
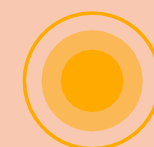
Consumer demand



Policy and incentives



Behavioral and cultural change



# What is Syngenta Group's contribution?

As the world's most local agricultural technology partner, Syngenta Group strives to transform agriculture through tailor-made solutions that support and enable farmers across the world to adopt regenerative agricultural practices, for the benefit of farmers, society and our planet.



Science and research to quantify environmental, agronomic, and economic outcomes



Biological technologies that enhance crop and soil health



Technical advice and training to growers



Access to digital tools to unlock the potential of precision agriculture



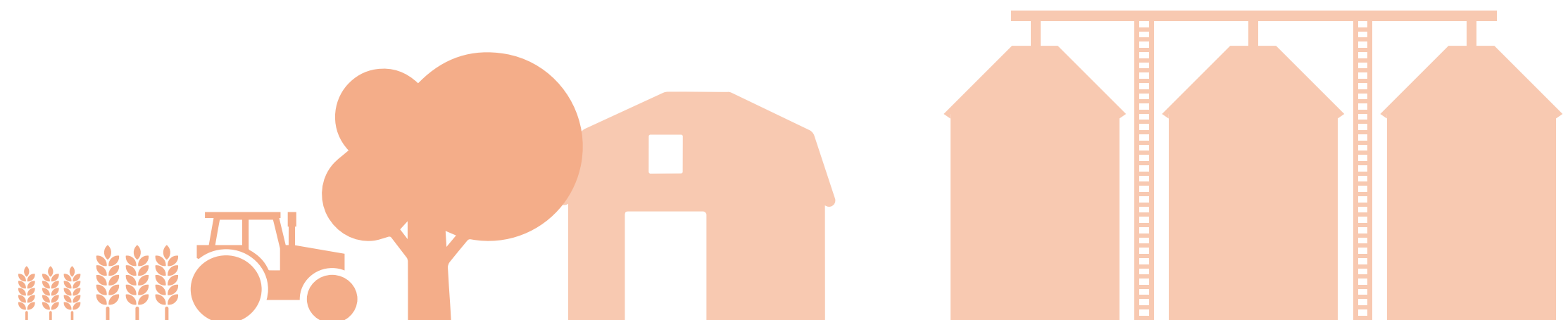
Elite crop varieties with sustainability traits for climate resilience



Support access to finance for the transition to regenerative agricultural practices



New value chain partnerships to create premium markets for regenerative products



# A global, food system-wide transformation

Transitioning to Regenerative Agriculture is a global movement and it builds on the collective power of the entire food value chain.

## By 2030

the food value chain is committed to Regenerative Agriculture:



Source **50%** of key ingredients through regenerative agricultural methods



Advance regenerative agriculture practices across **10 million acres** of land in North America



Advance regenerative agriculture on **1 million acres** of farmland



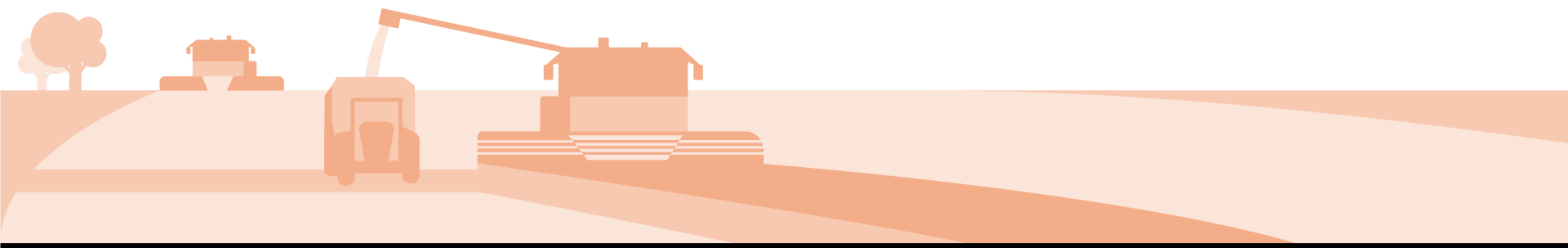
Adopt regenerative practices across **7 million acres**



Implement regenerative agricultural practices across **100% of McCain potato acres**



Work with suppliers to increase adoption of regenerative practices and commit to help manage at **least 50 million acres of land**



# Syngenta Group is partnering across the agricultural value chain

By partnering we can better support our customers



Working together on business practices to improve sustainability including soil health, resource efficiency and habitat protection



Working together with value chain partners to scale-up ground actions to enhance productivity of food systems and strengthen the climate resilience of farming communities



Through our CANOHYE partnership with Cargill, we are empowering smallholder farmers and supporting sustainable cocoa production



Under the WEF 100 million farmers initiative we are developing and enacting cost-effective, practical solutions to accelerate the uptake of regenerative and climate-smart agricultural practices



We collaborate with Kellogg to help thousands of farmers and their suppliers adopt and track agronomic conservation practices



Bringing together supply chain players to make production models more sustainable and implement sustainable technologies and business models for smallholders

