



Nestlé

Good food, Good life

REGENERATIVE

AGRICULTURE

Living soils for healthy food

WHAT IS IT?

Regenerative agriculture is an approach to farming that aims to conserve and restore farmland and its ecosystem. It delivers benefits to farmers, environment and society.

HOW DOES IT WORK?

Regenerative agriculture is centered around universal agronomical principles that help protect and restore natural resources - primarily soil, as well as water and biodiversity.

WHAT ARE THE BENEFITS?

Regenerative agriculture aims to improve soil health and soil fertility, at the same time capturing carbon in soils and plant biomass. It contributes to drawing down carbon dioxide from the atmosphere and reducing emissions of GHGs. Consequently, regenerative agriculture helps improve the resilience of farmland to climate change and can therefore help improve farmers' livelihoods.

WHERE DOES NESTLÉ START?

With farmers. Nestlé promotes the introduction of regenerative agriculture practices in partnership with farmers. We take into account the local context, aiming to maximize benefits to the environment and farmer incomes.

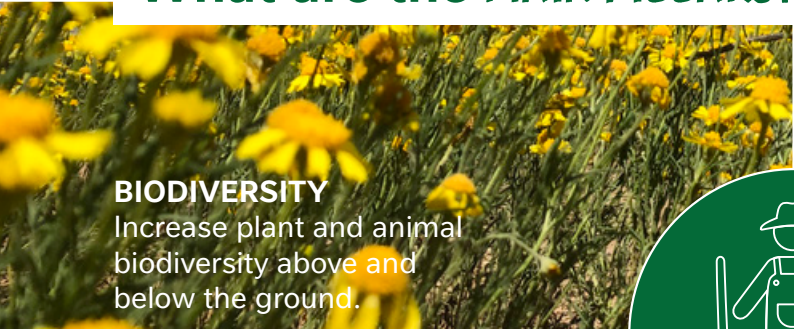
HOW WILL NESTLÉ MEASURE PROGRESS?

We aim to track both the level of implementation of regenerative farming practices and the tangible impacts we observe at field level under real world conditions. Monitoring both processes and outcomes will enable us to identify the right interventions for the right places. We will work with others on this program. Nestlé also welcomes other conservation agriculture methods that support regenerative principles.



Regenerative Agriculture

What are the MAIN PILLARS?



BIODIVERSITY
Increase plant and animal biodiversity above and below the ground.



SOIL
Scale up farming practices that help protect soil health and increase soil organic matter.



WATER
Reduce chemical farm inputs, optimize organic fertilization, biological pest control and irrigation techniques.



LIVESTOCK
Integrate livestock and optimized grazing in farming systems where feasible.

PRIORITY ACTIONS

DRIVE SOIL CONSERVATION	USE ORGANIC FERTILIZERS	DEVELOPP NATURAL HABITATS	USE LESS CHEMICALS	PROTECT WATERSHEDS	INTEGRATE LIVESTOCKS
Keep permanent & diversified soil cover, with minimum soil disturbance. Develop intercropping	Develop the use of organic fertilizers instead of synthetic	Increase natural habitats within the farmland and at landscape level, develop agroforestry	Continuously reduce the use of synthetic herbicides & pesticides	Ensure regeneration of the water cycle in water stressed areas	Optimize pasture management & maximise the value of manure; circular flow of energy & nutrients from barn to soil

...AND MAINTAIN OR INCREASE YIELDS

Working with partners

Nestlé is working with The Nature Conservancy on refining and improving our regenerative agriculture framework, incorporating the latest science and real world experience into a tool which works for farmers.



Soil conservation

Soil is a core component of our holistic approach to regenerative agriculture.

It is the nexus where the natural resources needed to grow plants and produce food interconnect.

Improving soil organic matter helps drive soil fertility. It also delivers numerous other benefits like better availability of key nutrients, helping soil

retain water and improve drainage, the protection and restoration of biodiversity and greater sequestration of carbon in the ground.




















Soil science is complex, and many aspects are important to consider per to each local context.

Potential benefits of soil conservation





HOLISTIC APPROACH: each practice can benefit a range of nature resources

IMPACT					
• Minor	••• Moderate	••• Major			
		Soil	Water	Biodiversity	GHG mitigation
	Cover crops	•••	••	••	•••
	Diversified crop rotation	•••	—	•••	••
	Mulching & crop residues cover	•••	••	•	•••
	Minimum tillage	•••	••	••	•••
	Organic fertilizers	•••	•••	••	•••
	Integrated nutrient management	•••	•••	••	•••
	Irrigation technology	•	•••	—	•
	Riparian buffers	•••	•••	•••	•••
	Intercropping	•••	•	••	•
	Agroforestry & silvo-pastoral systems	•••	•	•••	•••
	Hedgerows & green buffers	•••	•	•••	•••
	Integrated pest management & bio-controls	••	•••	•••	—
	Precision farming	•	•••	••	••
	Manure storage & process	••	•••	—	•••
	Herd management	—	—	—	•••
	Integrated pasture management & grazing strategies	•••	••	•	•