



Regenerative Agriculture for the Southern Cone

A regional model to validate regenerative practices, improve productivity, reduce environmental footprint, and strengthen capacities in Argentina and Paraguay.



Validation of regenerative practices in pilot farms to increase agricultural productivity and sustainability in Argentina and Paraguay

Initiative

The initiative seeks to increase the productivity of agricultural systems through regenerative practices in Argentina and Paraguay, with potential scaling to other Southern Cone countries. To this end, it will evaluate the impact of regenerative agriculture systems on agronomic, economic, and environmental indicators through pilot areas, experimental design, plots with

treatments and controls, periodic monitoring, and statistical analysis. It will also disseminate the knowledge generated and strengthen regional capacities through scientific and technical communication, workshops, courses, field days, open-access materials, and a web portal within the FONTAGRO platform.

Digital and experimental model to validate regenerative agriculture

Tech solution

The technological solution consists of designing and implementing regenerative agriculture pilot areas in Argentina and Paraguay, where a portfolio of agronomic practices adapted to local agroecological, historical, productive, and socioeconomic conditions will be validated. In each country, at least two pilot sites will be implemented and, in each site, at least two treatments will be evaluated: one control and other treatments including regenerative practices. The portfolio may include crop diversification and rotation, cover

crops, no-tillage or minimum soil disturbance, permanent soil cover, integrated soil fertility management, and integrated pest, disease, and weed management. The evaluation will be conducted through experimental design, monitoring of productive, environmental, and sustainability indicators, statistical analysis, and the use of Bayer's Field-View software for field data capture. The results will allow comparisons between regenerative and conventional systems.



50
Farmers trained



1
database



3
Pilot areas implemented

MORE INFO



Impacts and Results

The project is expected to implement regenerative agriculture pilot areas in Argentina and Paraguay to evaluate impacts on agronomic, economic, environmental, and sustainability indicators. It will generate geolocated and characterized baselines by country, experimental design and monitoring protocols, country-level databases with indicators for each pilot site and

annual updates, progress reports, a final technical note with results and discussion for both countries, a draft scientific publication, and policy recommendations for scaling the model. The project is also expected to strengthen regional capacities through workshops, BayGAP training with Bayer, open-access materials, guides, videos, social media content, field days, and a web portal within FONTAGRO.