FONTAGROTECH

Network of resilient farms with sustainable forest management

ARGENTINA,BOLIVIA,PARAGUAY,URUGUAY

Webstory

Technological solution

The technological solution consists of a monitoring and adaptive management network for the Chaco Forest, based on a common system of sustainability principles, criteria, and indicators. It integrates a shared methodology, an app to record indicator surveys, and a unified database, enabling dynamic evaluation of production processes, identification of management and training gaps, and stronger decision-making at farm, territorial, and regional scales.

Technological description

The network strengthens the flow of information between productive systems, professionals and public administration, becoming a tool in a continuous improvement process under adaptive and sustainable management of the Chaco Forest. The common monitoring system for the dynamic evaluation of production processes, based on a hierarchical system of principles, criteria and indicators, will facilitate addressing the complexity of the sustainability concept in a logical, objective and integrated manner. The development of specific tools for monitoring, such as a common methodology, an app to record indicator surveys and a unified database, will facilitate the monitoring of forest management plans for a dynamic evaluation. In addition, we can detect shortcomings in different stages of the processes, and training needs for producers, professionals and public administration agents. This provides a tool for the sustainability analysis of the production processes at the farm, territorial and regi

Impacts and results

The project includes 2,000 direct beneficiaries, comprised of small and medium-sized producers, indigenous communities in Argentina and Paraguay, and professionals. Improvements are expected on 80% of the network's farms by considering three dimensions: environmental, productive, and socioeconomic. In the first year, a database was built with information on forest management experiences with livestock and multiple forest use experiences, which included individual and group Creole producers, indigenous communities, and women's groups. In addition, a stakeholder mapping guide was designed and implemented in areas of Santiago del Estero, Córdoba, Santa Fe, Salta, and Irala Fernández. In the area of innovation, two monitoring tools have been developed: unmanned aerial vehicles for surveying forest communities and temporal image analysis for the dynamic assessment of forests and other plant communities.

2000
Direct beneficiaries

80 %
Fincas con mayor provisión de servicios ecosistémicos

80 %
Fincas disminuyen riesgos ante cambio climático a través de la diversificación de la producción

MAIN DONORS

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