Argentina



Organization: Fundación Proiectum Macrillanti (FPM)
Location: Arroyo Gómez Basin, Entre Ríos
Solution: Community-based land systematization through terraces in Argentina
Factsheet Period: One round of UNDP AFCIA funding (16 months)



The Fundación Proiectum team working on systematizing land terraces in Argentina @ Fundación Proiectum

Soil erosion caused by torrential rains in eastern central Entre Ríos is threatening agricultural productivity, infrastructure stability, and the livelihoods of small farmers. In the past two decades, over 40% of surfaces in Entre Ríos have suffered from soil erosion (Universidad de Buenos Aires, 2007), which has significant consequences on carbon sequestration. This initiative focuses on land systematization and soil preservation techniques at the community level throughout the Arroyo Gómez water basin, in contrast to existing piecemeal efforts within individual properties. Key outcomes include environmental benefits, such as reduced soil erosion and improved water quality, as well as public-private benefits, such as decreased road maintenance costs and protection of public infrastructure.

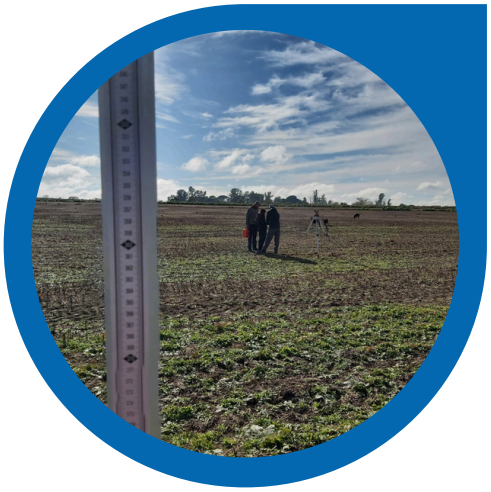
Key achievements

- Trained over 130 families in soil conservation.
- Informed over 250 community members on environment, biodiversity and climate change adaptation.
- Mapped 7,680 ha, verified through satellite imaging. Of this total, channels and terraces were identified across 3,302 ha and channel and terrace construction was completed over 2,800 ha.
- Signed strategic partnerships with 12 local governments, universities and international agencies to enhance capacity for scale and implementation.

Social impact

- Empowering small farmers and rural women through training programmes that improve their skills in sustainable agriculture.
- Providing farmers with practical tools to better manage land and protect natural resources.
- Strengthening community cooperation to preserve the public good of the Arroyo Gómez Creek Basin and its surrounding ecosystem.
- Engaging producers, students and local authorities through a community outreach “Soil Conservation Day”.





Adaptation benefits

- Increasing resilience of rural infrastructure to climate change by reducing soil erosion, runoff and flooding.
- Protecting agrobiodiversity through community-led soil conservation, ensuring long-term sustainability of local crops and ecosystems.
- Equipping producers with knowledge on land systemization to improve water management, prevent soil degradation and enhance agricultural resilience to climate change.

Innovation

- Promotion of soil conservation at a community-level through public-private partnerships.
- Support to producer consortiums that reduce costs and promote shared interests.
- Increase quality and stability of crop yields to support livelihoods of smallholder farmers.
- Presentation of research at the national XXIX Argentine Congress on Soil Science.

Replication potential

- Basin-level soil systematization can be a model for provincial and national agencies to use in other areas needing this technology for climate adaptation.
- Experimental Area designation provides a regulatory model for replication in other provinces.

Funding snapshot

- UNDP-AFCIA grant: US$125,000 (initial grant)

Investability	
Revenue per year	$30,000 in Year 1, $60,000 in Year 2, $100,000 from Year 3 onwards
Sustaining criteria	$500,000 over 6 years for revolving fund managed by FPM, to offer micro-loans to farmers at a 5-6% interest rate with a 6-year term, providing a sustainable funding cycle as repayments are reinvested Grant funding will be used to cover a portion of administrative costs, with two anticipated rounds of grants providing essential operational support
Financial innovation	Farmers repay loans using the increased profitability from enhanced agricultural productivity, ensuring a continuous revenue flow
Expected return	Initiative projected to be profitable within 6 years, with an expected annual return of 3%

ADAPTATION FUND Climate Innovation Accelerator

ADAPTATION FUND

To read their story, visit UNDP-AFCIA

To watch their video, click here

To contact the initiative, visit FPM