





Project in Uruguay "Building resilience to climate change in vulnerable smallholders" Adaptation Fund Side Event – 10/11/2016 – CoP 22 Family and Community Agriculture: Developing and Implementing Sustainable Climate-Resilient Agricultural Solutions Walter Oyhantçabal

Ministry of Livestock, Agriculture and Fishery

Family cattle farmers and climate change

- Grant of US\$ 9,662,967
- Timeframe: 5 years.
- Starting date: October 2012.
- National Implementation Agency: ANII
- Execution Agency: MGAP



General description of the project













 Uruguay is a livestock and cropland country with an economy strongly based on the agricultural sector (78% of all goods exports).



Intensity and frequency of droughts in the last decade











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High damages and losses of extreme

events

 2008/09 drought: direct losses US\$ 342 millions; indirect losses: 1 billion US\$ (close to 2% GDP)

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Rural farmers in Uruguay (2011):

Total farmers: 41000

62% smallholders

Cattle and sheep farmers: 63% of all smallholders







Distinctive characteristics of the project

• Target public: Vulnerable small familiy cattle farmers.

• Territorial approach: Activities focalized on Landscape Units (LU).

• Methodology: Participatory diagnosis and strategic planning elaborated with the beneficiaries in the LU.

Territorial setting (LU)



COMPONENT 1: Building resilience at farm level



• forrage management, water, and shadow solutions .

- •Associative projects.
- Technical assistance and networks.

COMPONENT 2: local networks

- Building a learning platform for farmers.
- Working with children, youth and women on: adaptation to CC and natural resources conservation .
- Forecasts, early warnings and decision suport.



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COMPONENT 3: Knowledge management

Knowledge generation to support innovations to cope with climate varabibilty and extreme events (droughts).

Participatory validation.

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Monitoring key indicators of resilience. Sistematizing information.

Mesuring systems sensibility and validating good practices.

Deliivering a catalogue of good practices.

Lessons learned.



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Formal agreements to implement monitoring process and studies:

• SARAS

- Faculty of Agronomy, Faculty of Sciences & INIA:
- Instituto Plan Agropecuario:

Conceptual framework

- **Win-win** game: More productivity and more adaptation to climate variability **at the same time.**
- Increse production without increasing costs significantly
- **Restoring rangelands'** soils fertility and biodiversity as resilience drivers (C sequestration as co-benefit)

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¿HOW?

Low cost, soft, management technologies of high impact and knowledge intensive



M&E Strategy

30 Reference farms for in depth M&E

Assisted beneficiaries

Control group



Preliminary lessons learned

- Adaptation integrated to development policies.
- Relevance of coordinating policies science and social actors.
- Resilience is multicausal
- Low cost technologies can be of high impact.
- Technical change implies cultural and behavioural change and demand a facilitative environment.
- Adaptation is easier based on win-win strategies.
- Information, networks and organizations are key.

"Building resilience to climate change and vulnerability in vulnerable smallholders"

THANK YOU VERY MUCH!







MINISTERIO DE GANADERÍA AGRICULTURA Y PESCA