Institutional networking around *LADA The Argentina experience*





The world of Knowledge (kn)

RESEARCH

Management
Gov. or Business

Kn production and combination of old kN Poor coordination
Highly specialized

Solving complex problems or selling complex products Experience based Kn

Different worlds languages, procedures and rules, priorities goals and deadlines



- 1. Networking of S&T capacities: exploitation of synergies
- 2. Institution coordination at top decision level.

Achievements

- ✓ Optimizing tools by continuous testing an improvement led to the establishment of a Baseline for a monitoring system
- Integration of different scales : global, regional, national, regions , local and farms
- ✓ Consolidation of "in field" experience and capacitation to others able to replicate it. Trainees from seven South American Countries
- ✓ Best practices : adjust locally and promote its use
- Knowledge transfer to decision makers :
 - in Argentina Knowledge basis for a national strategy
 - to the UNCCD: LADA countries can contribute with key Indicators

Policy of land conservation

- LADA provided knowledge to understand land degradation under given conditions and gave basis for a new regulatory frame.
- Argentina: Law on soil conservation





Institution coordination for better knowledge, practices, and policies

2010 agreement between the Secretary of Environmet

- CONICET, the National Research Council
- The University of Buenos Aires

In 2011 include:

- INTA Natl Inst for Agriculture Technology
- Other universities & Natl Geographic Institute among others

Objectives of the agreement:

- Extend LADA at national level,
- Optimize and expand capacitation
- establish permanent observatories,
- implement a manual for monitoring good practices,
- Generate reports and information outputs for policy design.
- Integrate LUS with other GIS based initiatives: a challenge to understand complex problems

Other GIS based initiatives to complement LADA

- National Soil Map by INTA
- Natl System for Biodiversity : Ministry of S&T
- Platforms in social sciences: documents and databases: coord. by CONICET
- Home Welfare Survey Gov
- Digital repositories for Research publications :
 CONICET and Universities
- Natl statistics on agriculture: Central & State Gov.
- Modeling of middle and long term climate scenarios : CONICET and CNRS France.

Biodiversity database

Netwok of Natural History Museums and Collection GBIF initiative continued by S&T Ministry



Red Nacional de Colecciones Biológicas

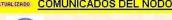
Global Biodiversity Information Facility



NUEVO Portal de Datos Argentinos

Portal de Datos del GBIF

IV Reunión de la RNCB y



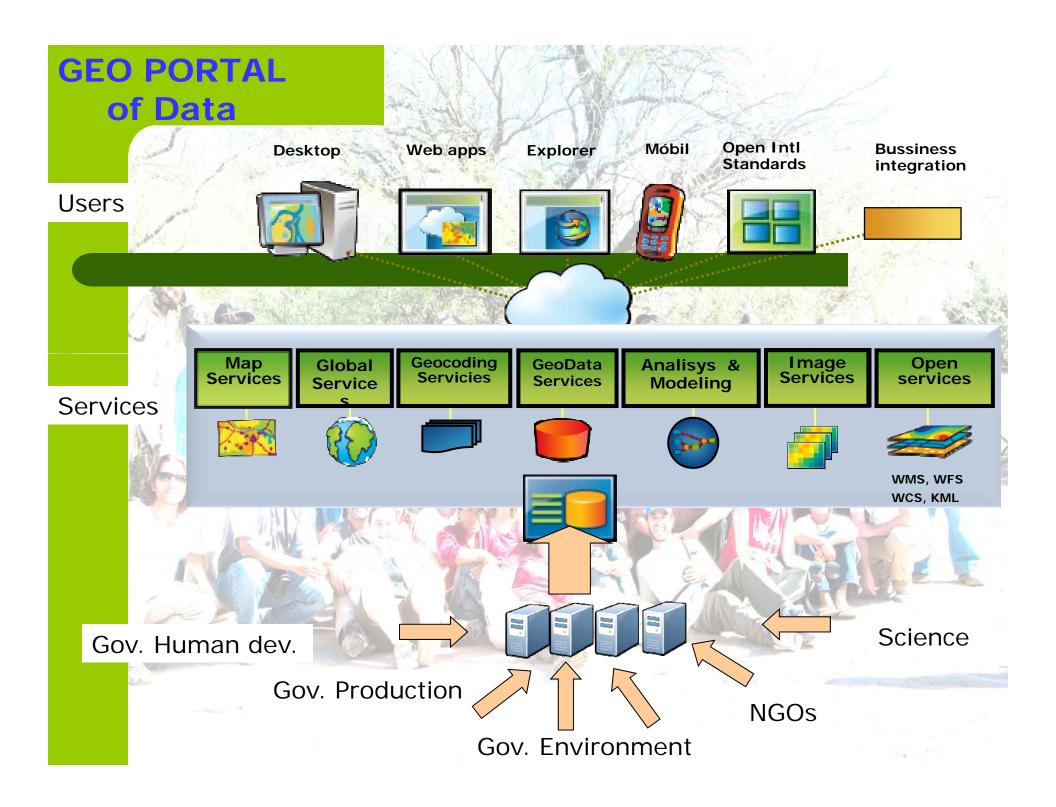
80 Institutions 250 collections 400 researchers involved

+ 15.000.000 speciments

20 % digitized 10 % GIS referenced









Land use and conservation: a challenge for social sciences

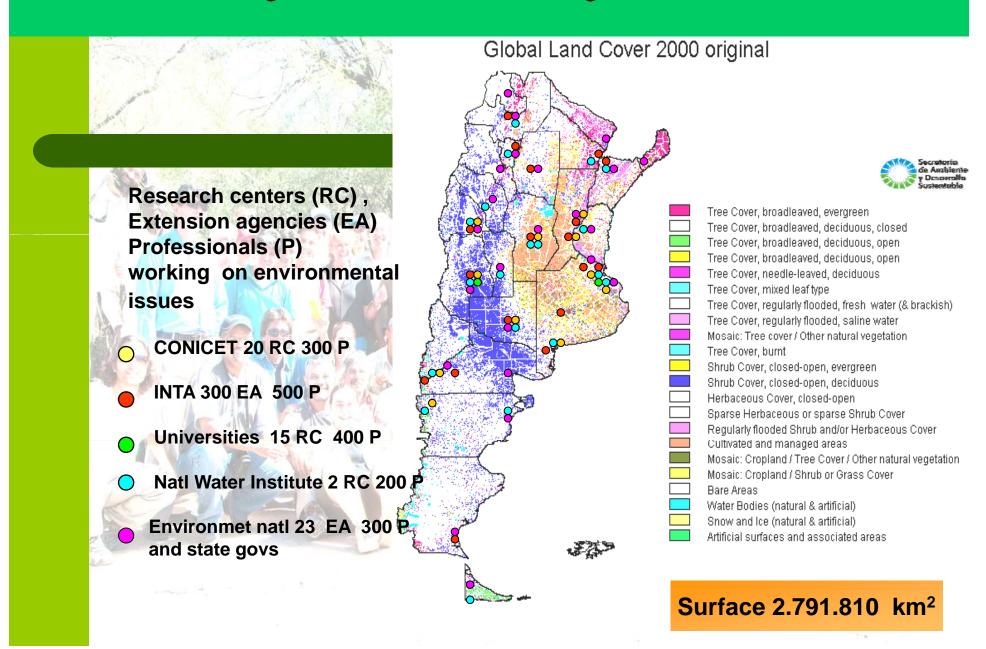
- New or available Knowledge within a context.
- Understanding the implementation of practices
- Social organization of farmers
- Social Development, resilience and adaptation
- Technology adoption, adaptation and use

(Domestic solar energy, rotation of harvests, irrigation techniques, re-utilization of biomass, but also access to markets, legal status of land and more)

Land use and conservation within human development

Evaluación de la Degradación de Tierras en Zonas Áridas (LADA)

FAO 2006 – 2010 Argentina, China, Cuba, Senegal, Sudáfrica, Túnez





Benchmarking of global projects:

- Convergence of funding: National and international
- Commitment to store, share and publish data
- Network Organization meetings
- Decentralized management
- Centralized quality control and data handling
- Continuous Training
- Computing and internet infrastructure
- Data processing capacities: clear outputs
- Complex problems: better management and science.

International support triggers national decisions and National commitment reinforces international support.



The world of Knowledge (kn) and PROBLEMS

Research Management Gov. or Business

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The world of Knowledge (kn) and PROBLEMS

Research

Development or engineering

Management Gov. or Business

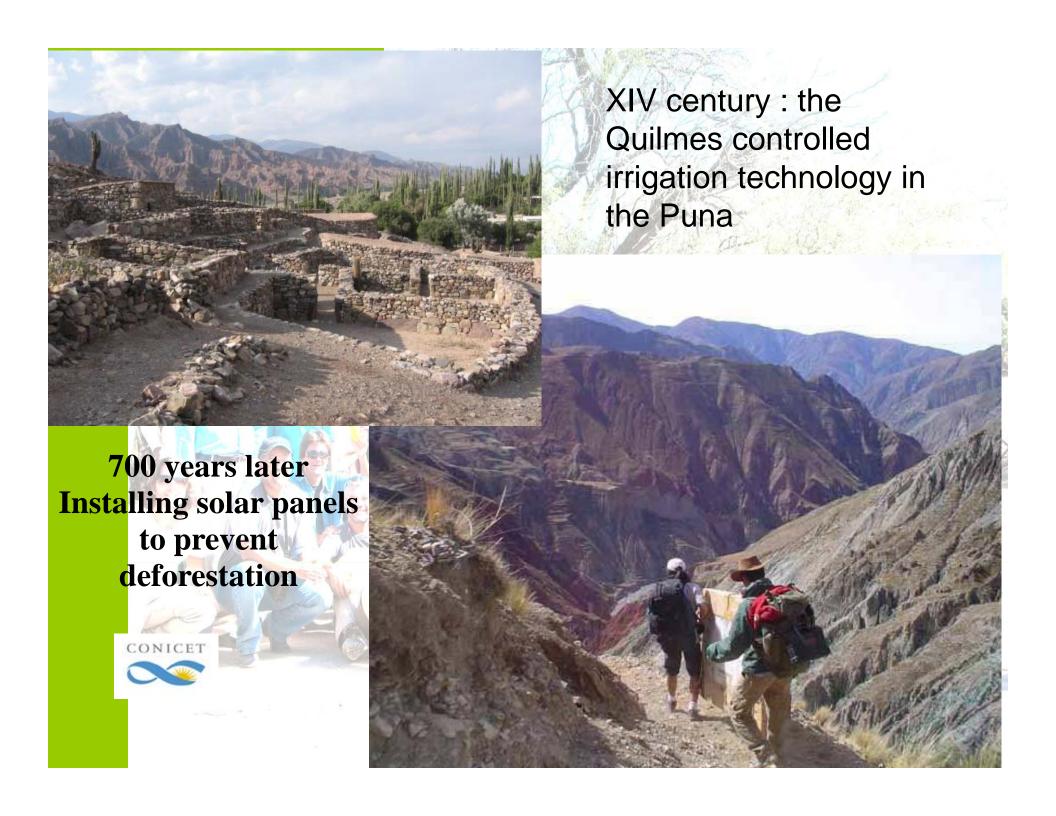
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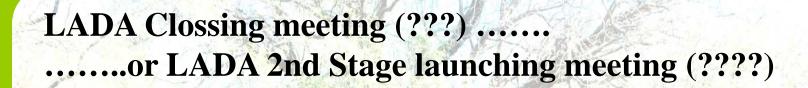
LADA

Kn Processing
Models Simulation
Integration
Adaptation
Scale up

Solving complex problems
Or selling complex products

Translation and articulation?





FAO Roma, December 2010

Muchas Gracias
Merci beaucoup
Thank you
Grazie
谢谢