



MINISTERIO DE GANADERÍA
AGRICULTURA Y PESCA

Uruguay's Approach: Effective Design and Management of Climate Services

Livestock, Agriculture and Fisheries National Information System

Ministerio de Ganadería, Agricultura y Pesca

2014

Livestock, Agriculture and Fisheries National Information System

Objective

Design and implement the **Livestock, Agriculture and Fisheries National Information System**, to support public policy design, risk management and decision making.

*Ministerial Council
16-3-2010*

Budget Law 18.719, december 2010

Article 369.- Assigns to the Ministry “General Secretariat Direction” the role of Coordinate and Direct the processes leading to the design and establishment of the **Livestock, Agriculture and Fisheries National Information System**.

Development and Adaptation to Climate Change Project (DACC)

COMPONENTS:

- C1. **Livestock, Agriculture and Fisheries National Information System. (SNIA)**
- C2. Productive sub-projects: Rural Development General Direction
- C3. Modernization of the Natural Resources General Direction
- C4. Institutional Strengthening and Project Management; UGP-MGAP

DACC's Objectives

- 1- Provide information for **Innovation and Adaptation** to climate change and climate variability as **public goods**
- 2- Provide **Sustainable Rural Development** Support
 - Farm development with differentiated support
 - Rationalize water access and management
 - Rationalize land use
 - Support the management of rangelands
- 3- Capacity building and modernization of public services **in coordination with the private sector**

Livestock, Agriculture and Fisheries National Information System

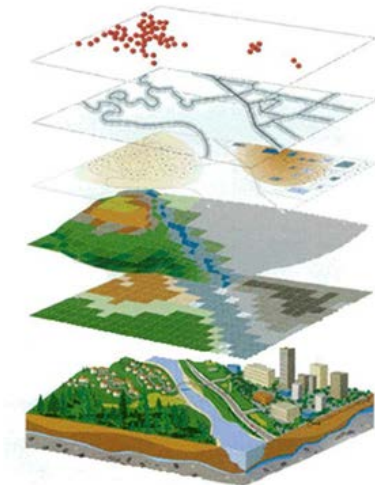
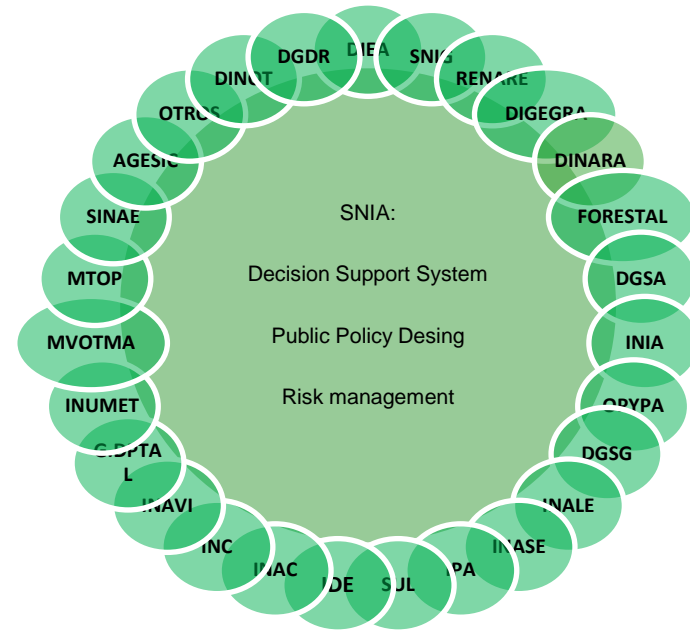
Conception

Information system that allows:

- ✓ Organization
- ✓ Integration
- ✓ Interoperability among different systems
- ✓ Standardize

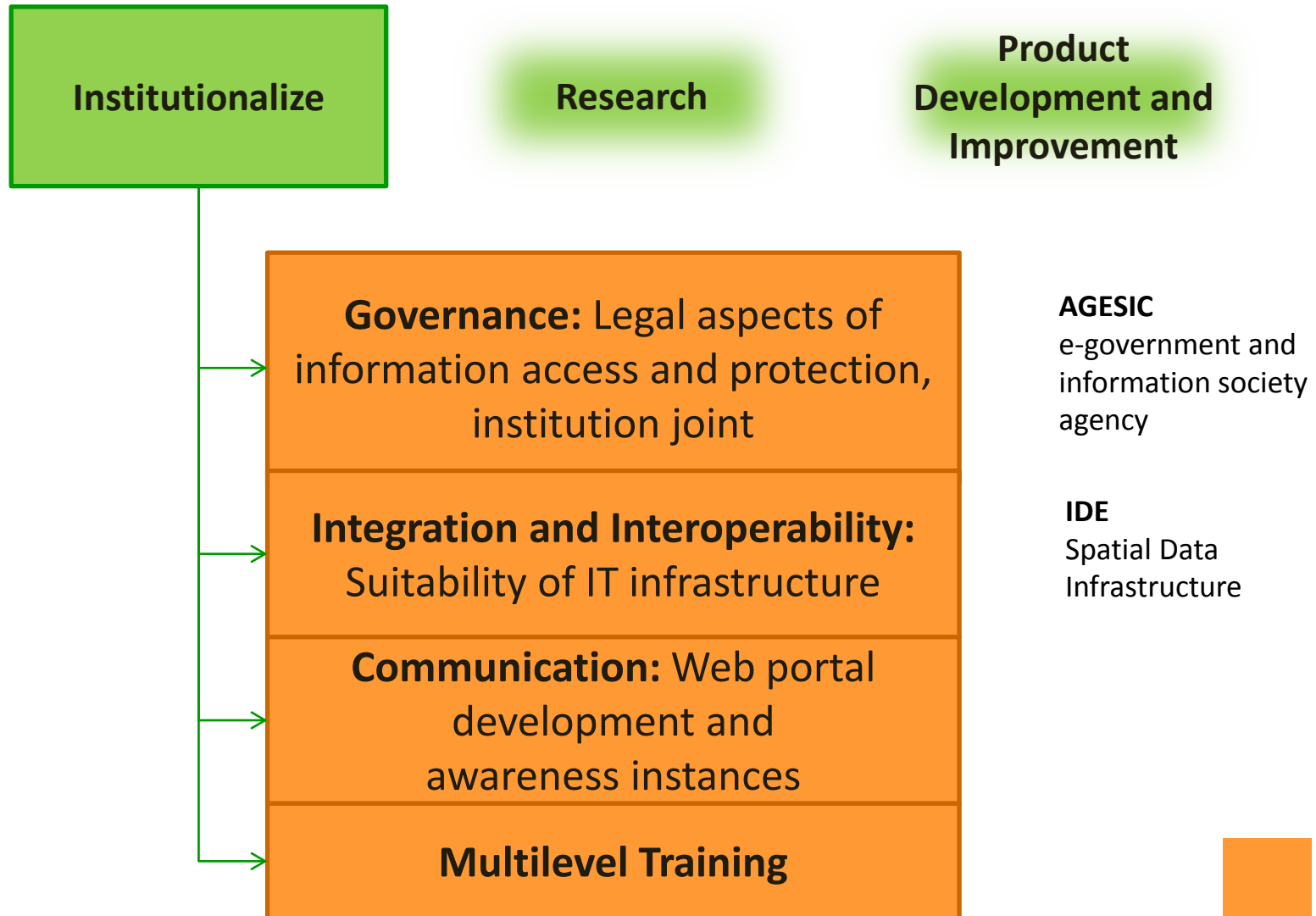
With the following aims:

- ✓ Provide access to data and information
- ✓ Allow integrative analysis
- ✓ Generate information tailored to different user profiles
- ✓ Knowledge Management



Three big areas in the process...

Institutionalize



Three big areas in the process...

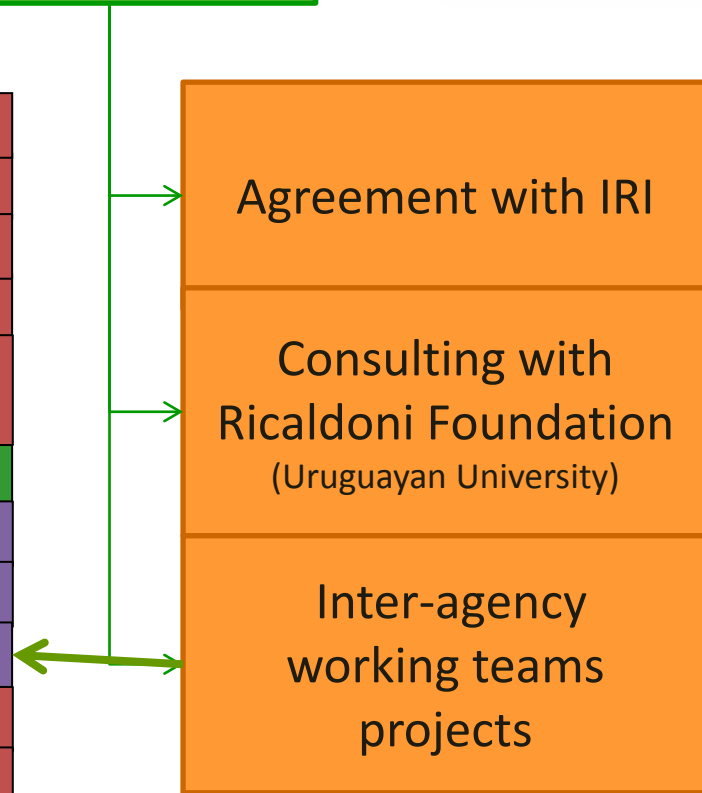
Research

Institutionalize

Research

Product Development and Improvement

- 1a – Drought Early Warning for Livestock
- 1b – Health Monitoring for Livestock
- 2 – Agrochemical application control
- 3 – Effluents management
- 4 - Insurance risk characterization for livestock, vegetables and fruit farms
- 5 – Farmers register integration
- 6 - Land Management Plans
- 7 - Cultivars Trial Analysis
- 8 - Watershed Analysis for Irrigation Promotion
- 9 –Fire forest risk index
- 10 –Climatic Services



Three big areas in the process...

Product Development and Improvement

Institutionalize

Research

Product
Development and
Improvement

Map Room Development (Data Library)

Systematize Agricultural Census

Updating of historical data series

Development of GIS viewers

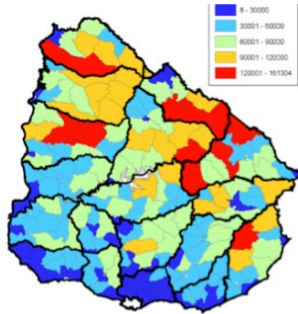
Updating production cartography

Farmers unique registry

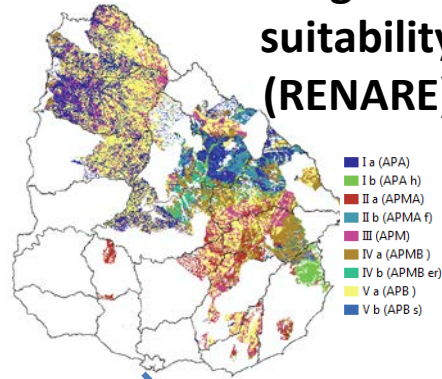


Drought Early Warning for Livestock

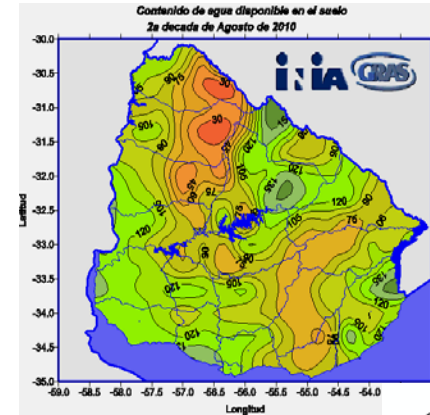
Livestock Monitoring Stock (SNIG)



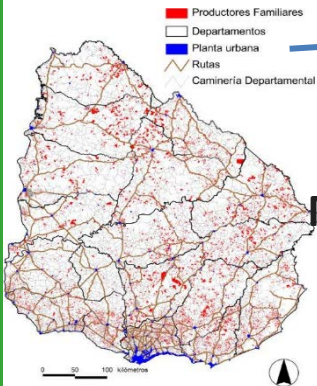
Rangeland suitability (RENARE)



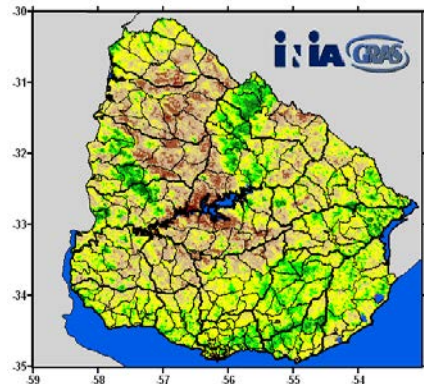
Water Balance Monitoring and Forecast



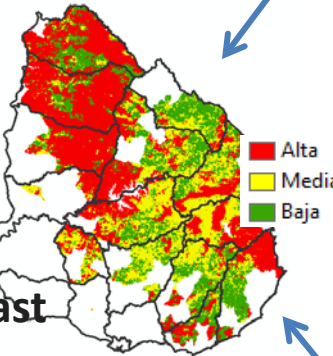
Family farmers DGDR



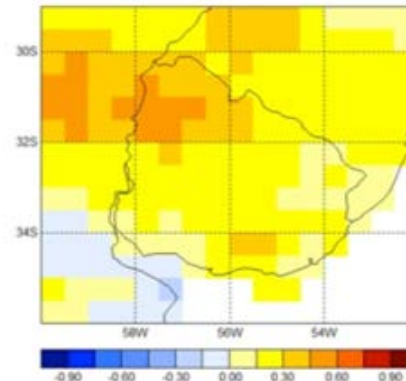
Grassland Growth Monitoring and Forecast



Drought Risk Map

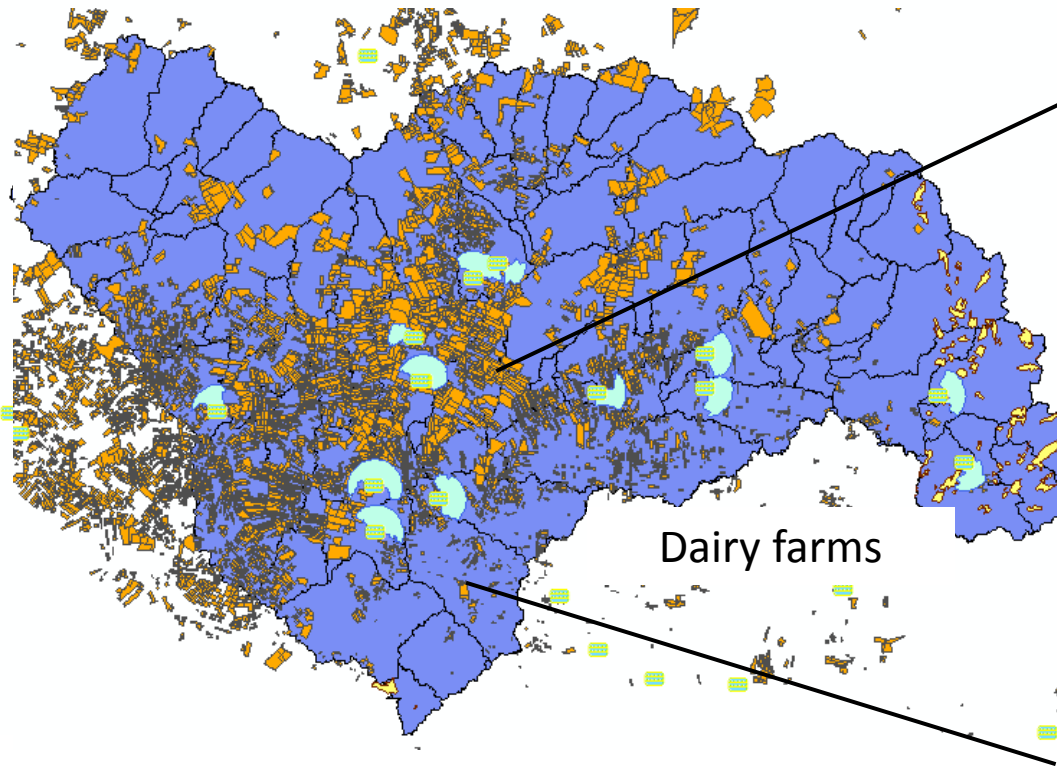


Seasonal Forecast

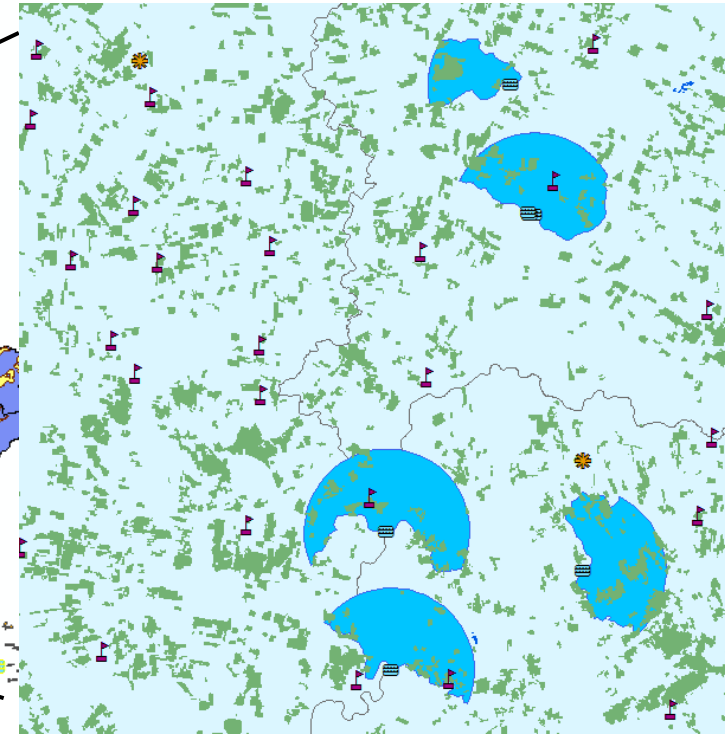


Other...

Agrochemicals and effluents management



Dairy farms



Crops and schools

- Identification of hydrants with potential problems
- Development of monitoring indicators
- Facilitates inspection of farms
- Development of mitigation policies

- To concrete interagency agreements that allow a smooth exchange of data and information
- To develop integrative information products and services with high added value
- To be able to communicate in an understandable manner to different user profiles

