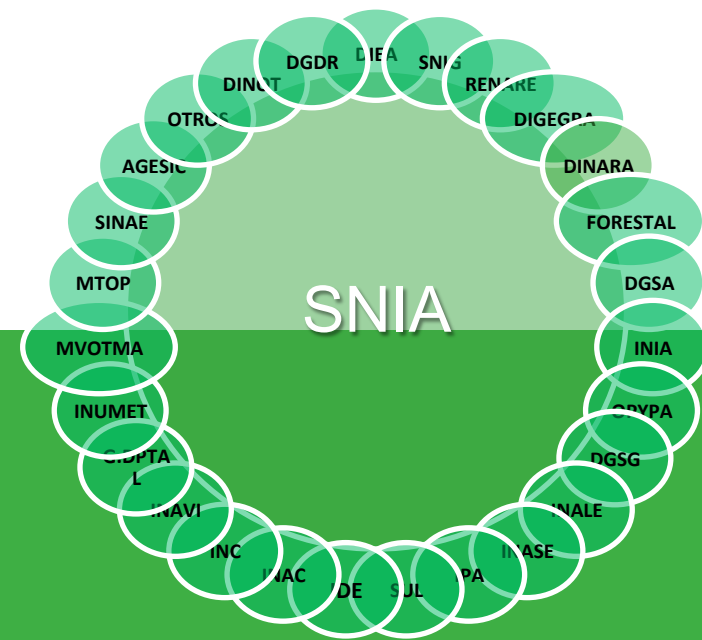




MINISTERIO DE GANADERÍA  
AGRICULTURA Y PESCA



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

Livestock, Agriculture and Fisheries National Information System

*ICCS - 4*

2014

# National Agriculture 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

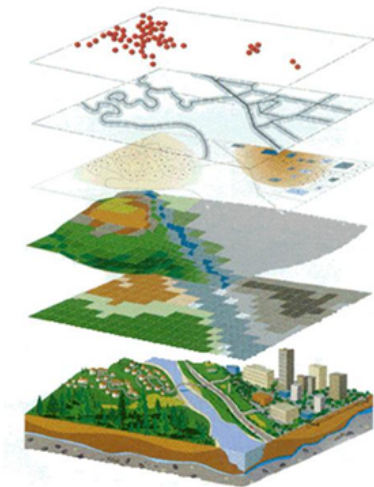
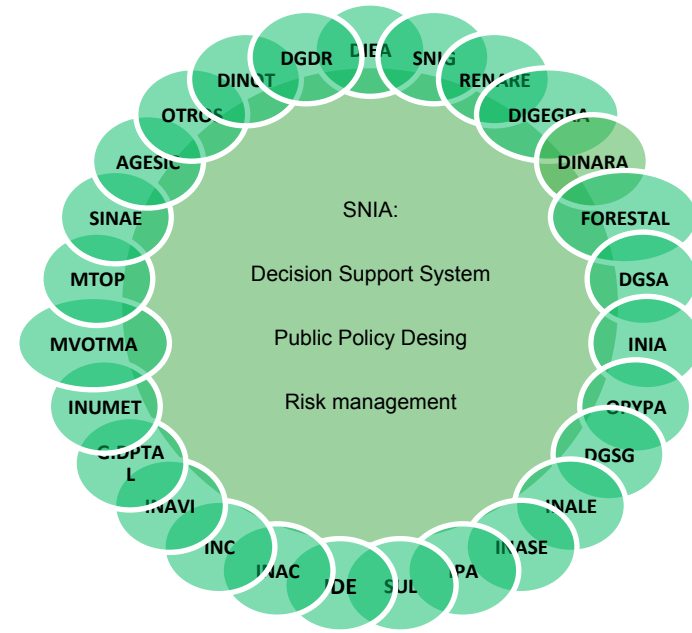
## Conception

Information system that allows:

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

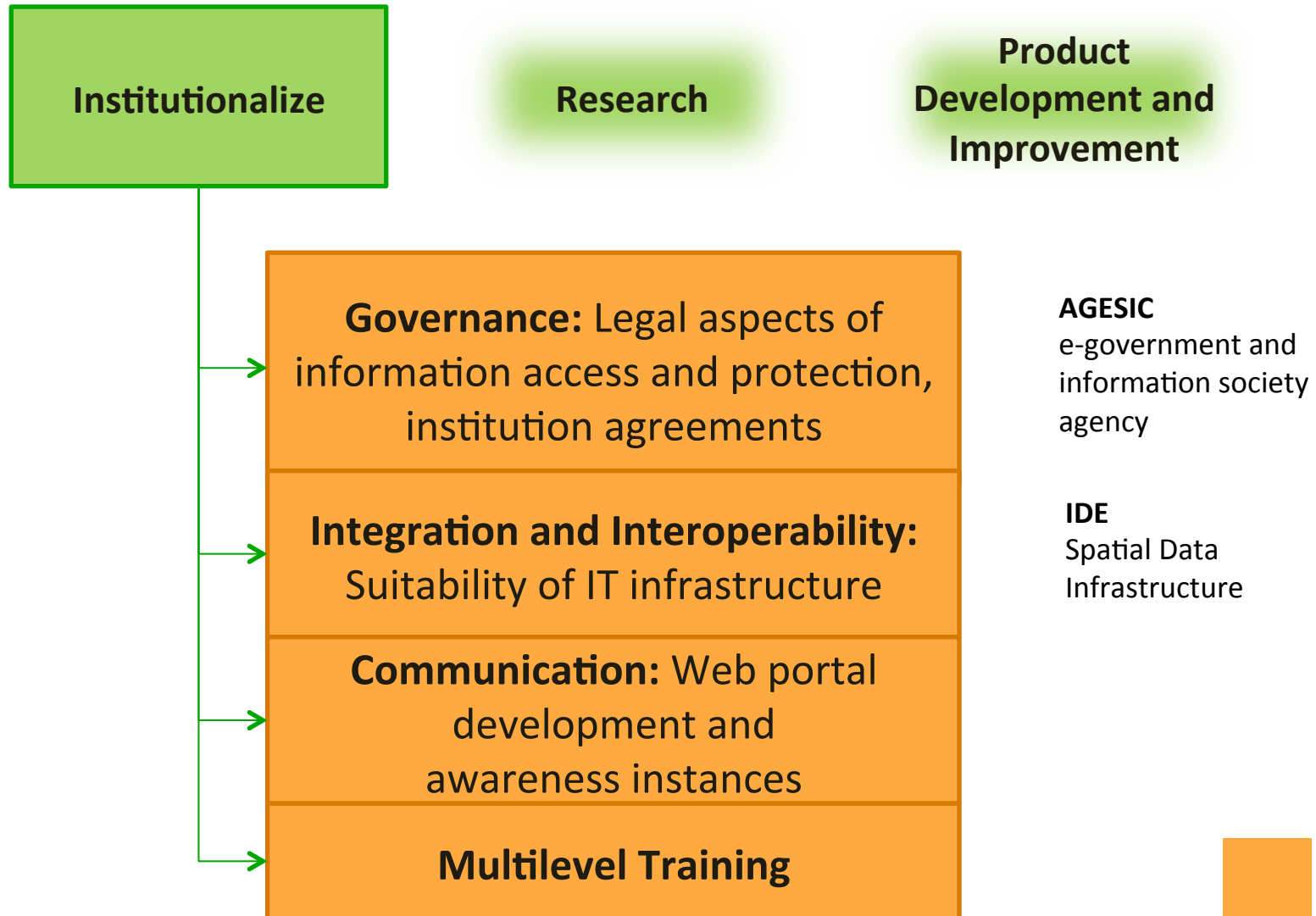
With the following aims:

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



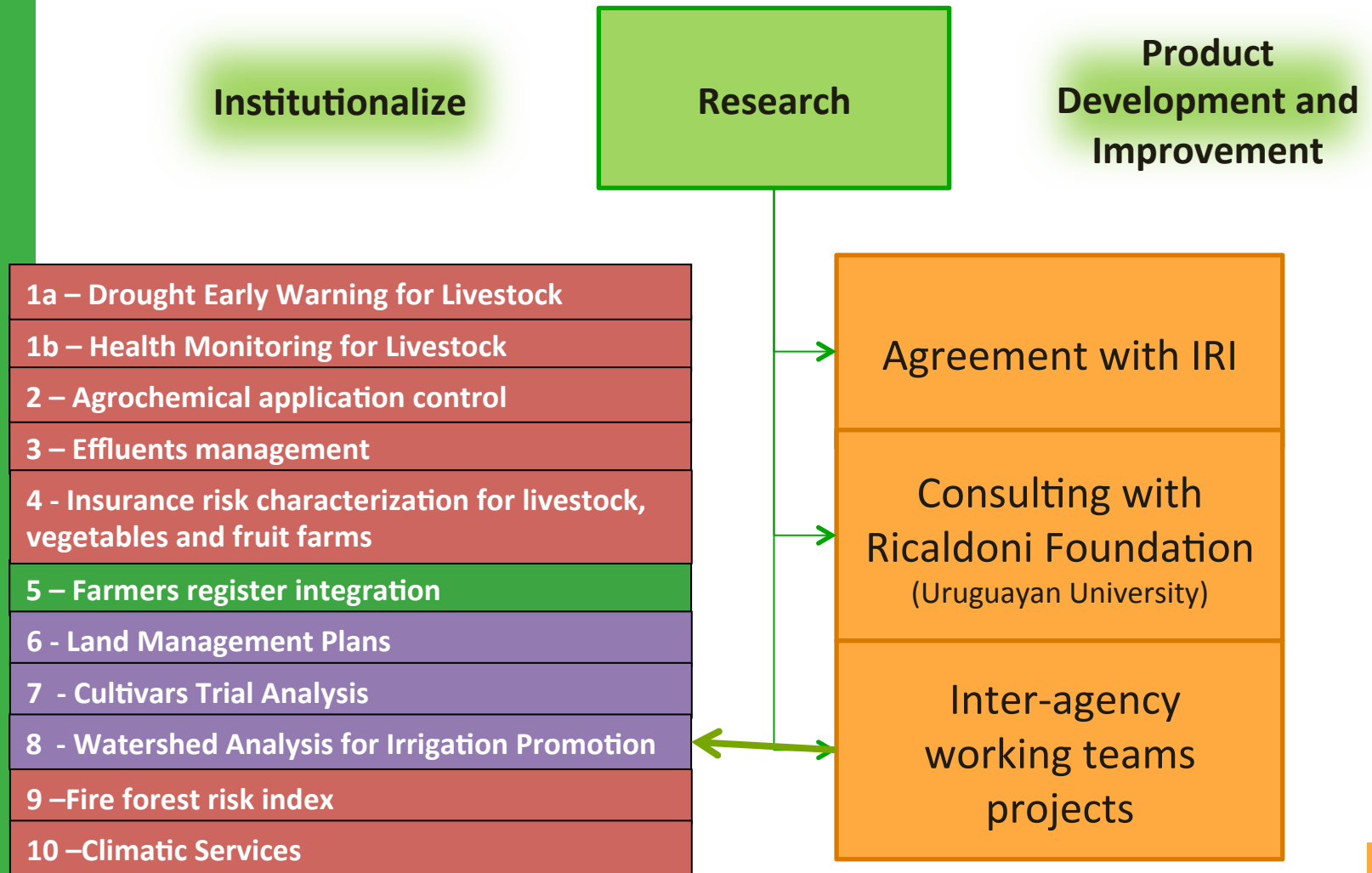
# Three big areas in the process...

# Institutionalize



# Three big areas in the process...

# Research



# 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

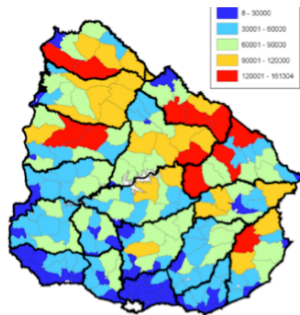
Updating production cartography

Farmers unique registry

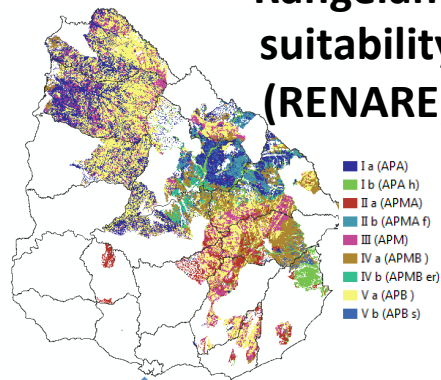


# Drought Early Warning for Livestock

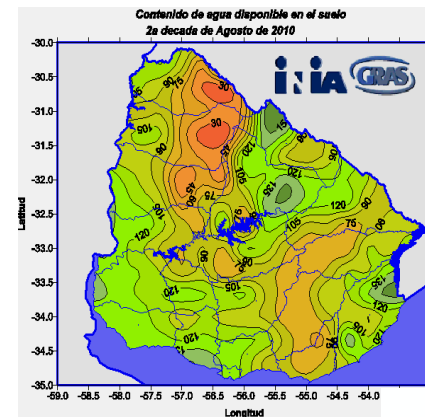
## Livestock Monitoring Stock (SNIG)



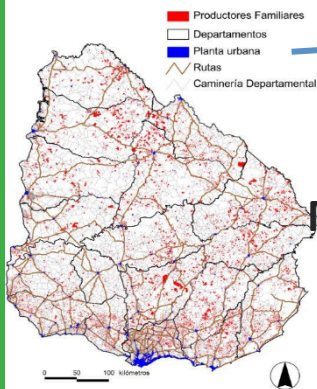
## Rangeland suitability (RENARE)



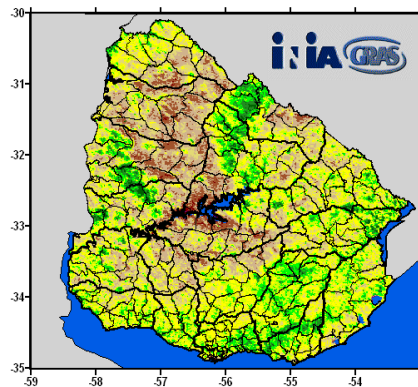
## Water Balance Monitoring and Forecast



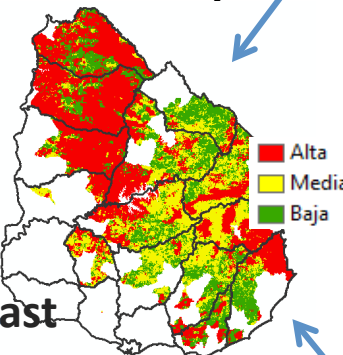
## Family farmers DGDR



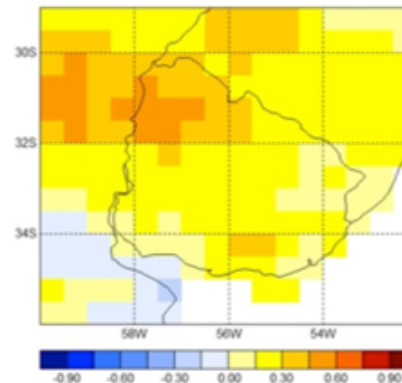
## Grassland Growth Monitoring and Forecast



## Drought Risk Map



## Seasonal Forecast

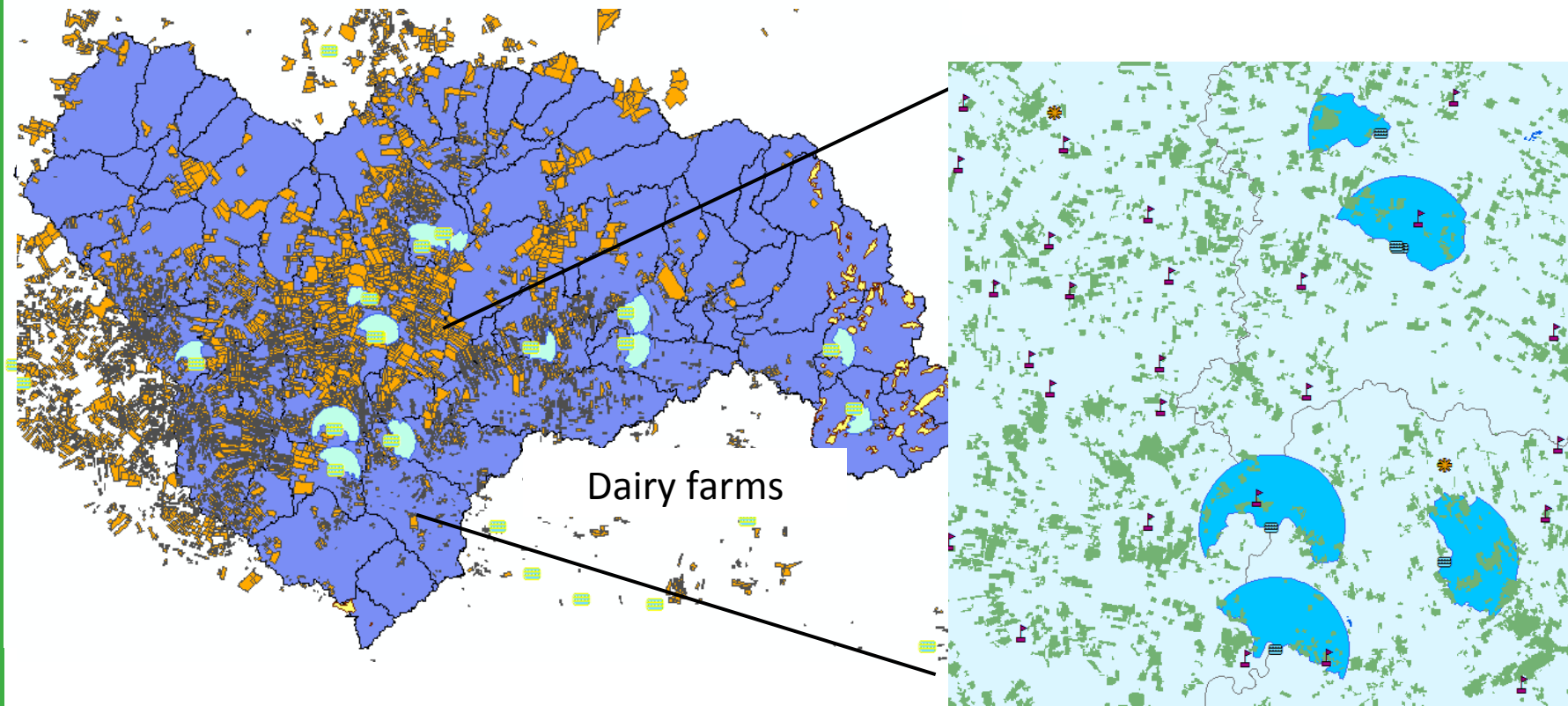


Other...





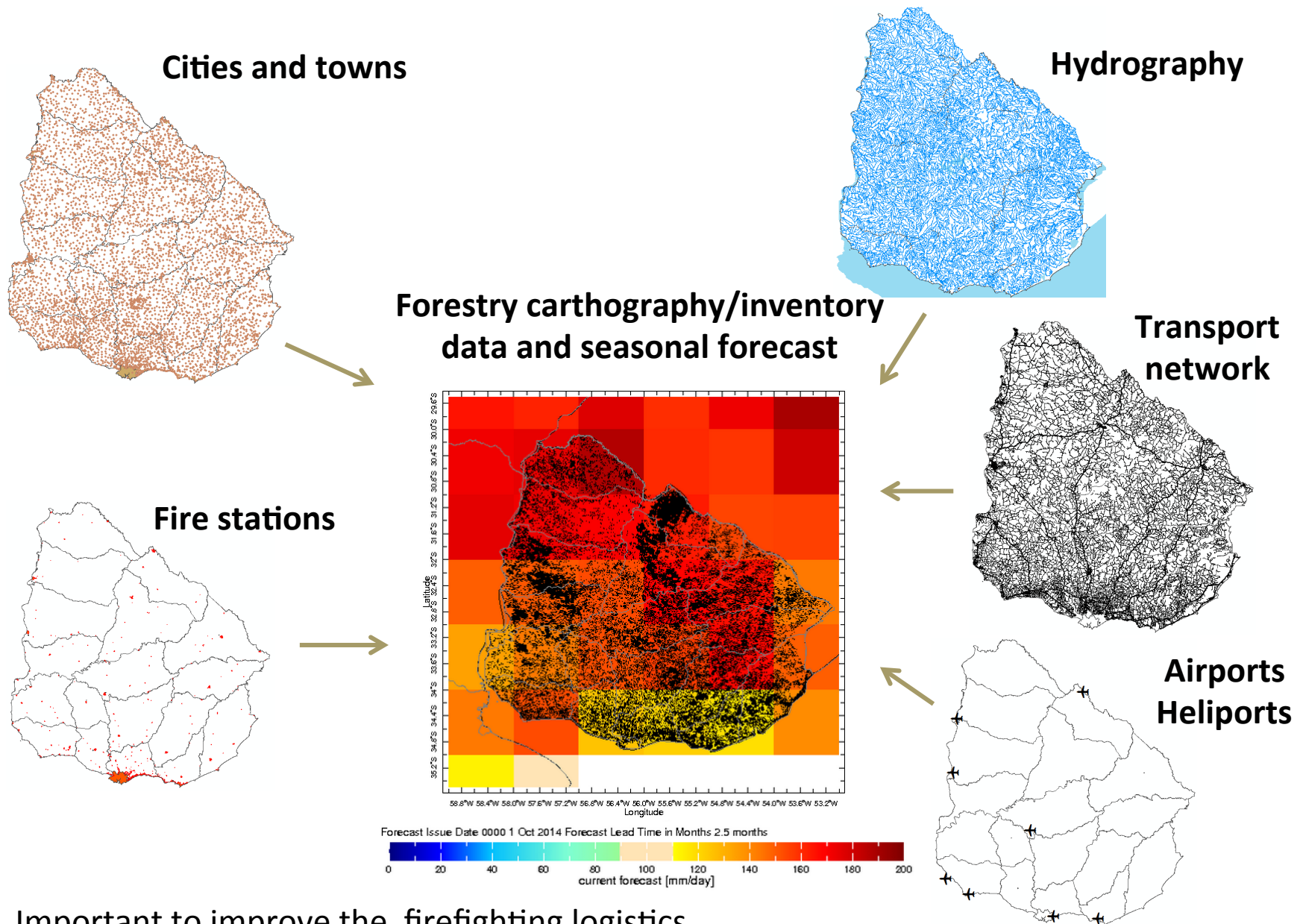
# Agrochemicals and effluents management



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

Crops and schools

# Seasonal forecast and forest fires



Important to improve the firefighting logistics

- 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

