

Observatories network and climate change research in EU – LAC

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Introduction

There is a large variety of access to climate services, including the interpretation. An observatory that allows following up the evolution of the stakeholders generating, disseminating or using climate services is an important indicator to policy recommendation.

Based on the specific objectives of EU-LAC Joint Initiative for Research and Innovation (JIRI):

Helping to improve the conditions for bi-regional cooperation in biodiversity and climate change, through the promotion of information, sharing experiences and good practices and encouragement of innovation initiatives.

What is necessary?

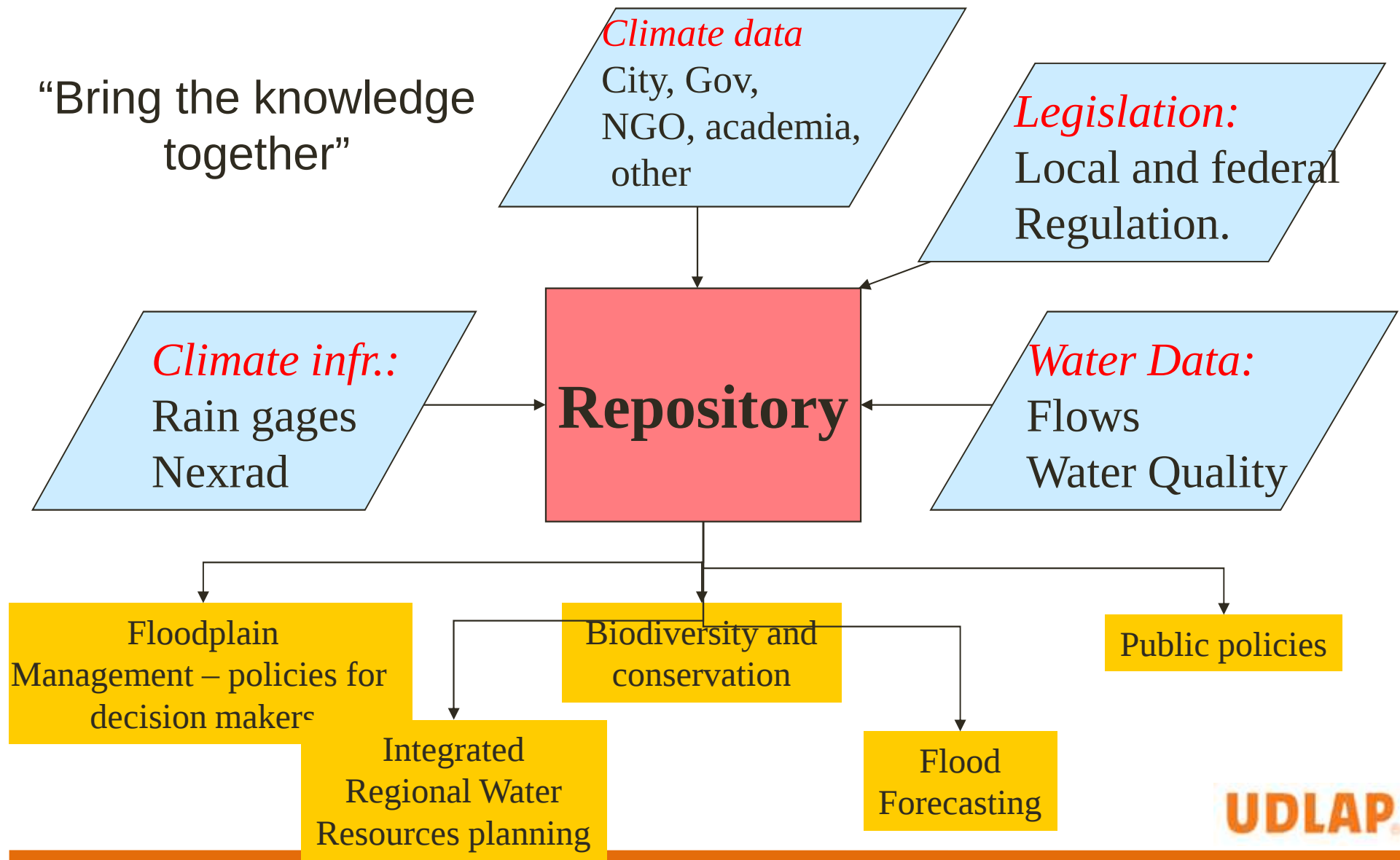
There is a need to identify **sustainable community-based governance models** for the management of natural resources that could be used in different social-ecological systems in a context of climate change, as well as to find better approaches to improve food production and adaptation capacities among communities engaged in the conservation of water ecosystems. The analysis of **risk related to extreme hydrological events** (flood and drought, landslides, and mass removal), as well as integrated approach to basin management and planning including water cycle, sediment transport, land and water uses, interaction between users and the natural system, would be considered.

Main goal

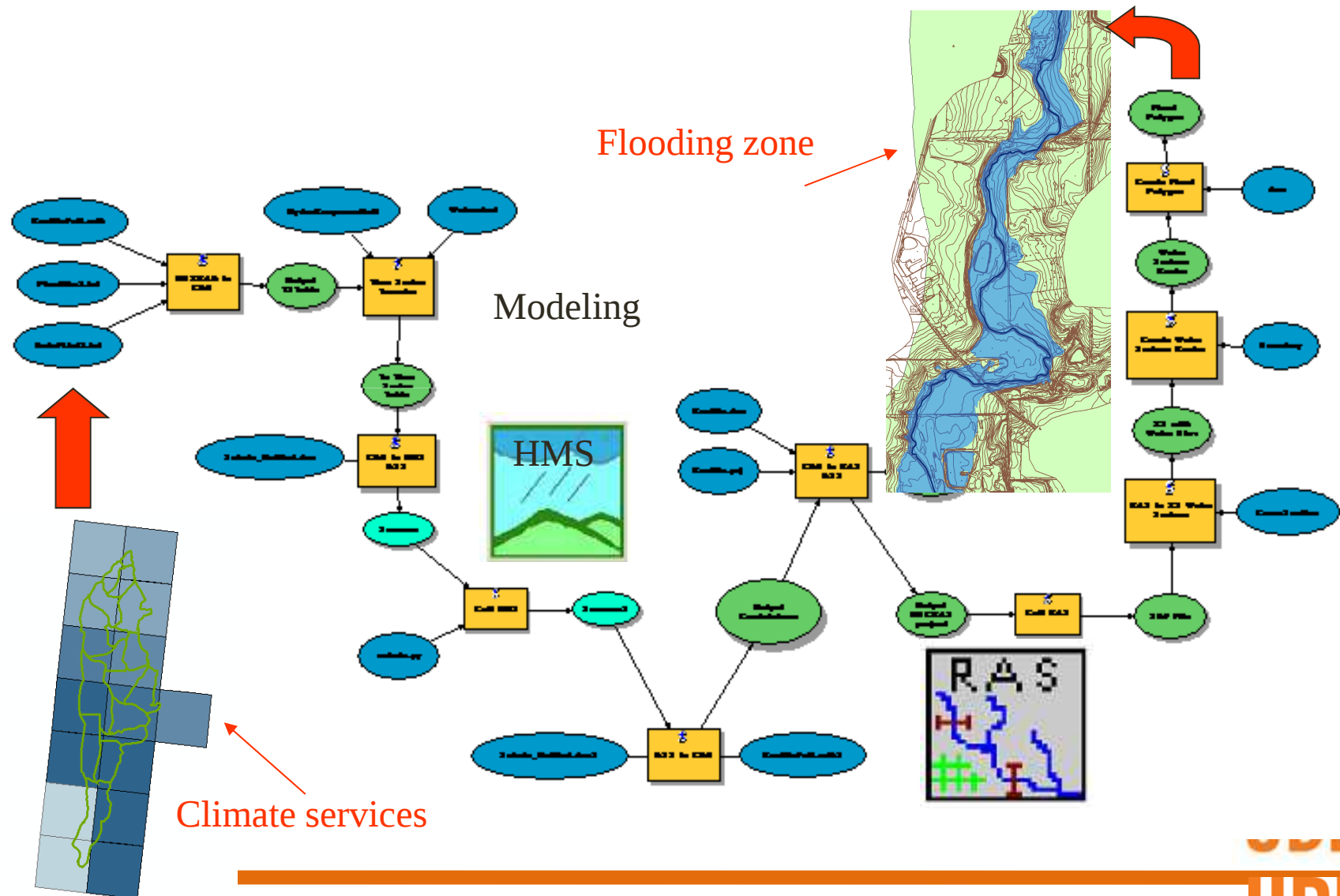
- **Mapping of existing infrastructures and information platforms** to share knowledge and successfully experiences on projects in the European Union and Latin American Countries, proposing a common platform from where researchers and decision makers could get the latest information about climate change scenarios, climate data, vulnerability assessments, biodiversity legislation and adaptation measures proposed to diminish the negative effect of climate change on biodiversity, water resources and local & regional economies.

Observatory Structure

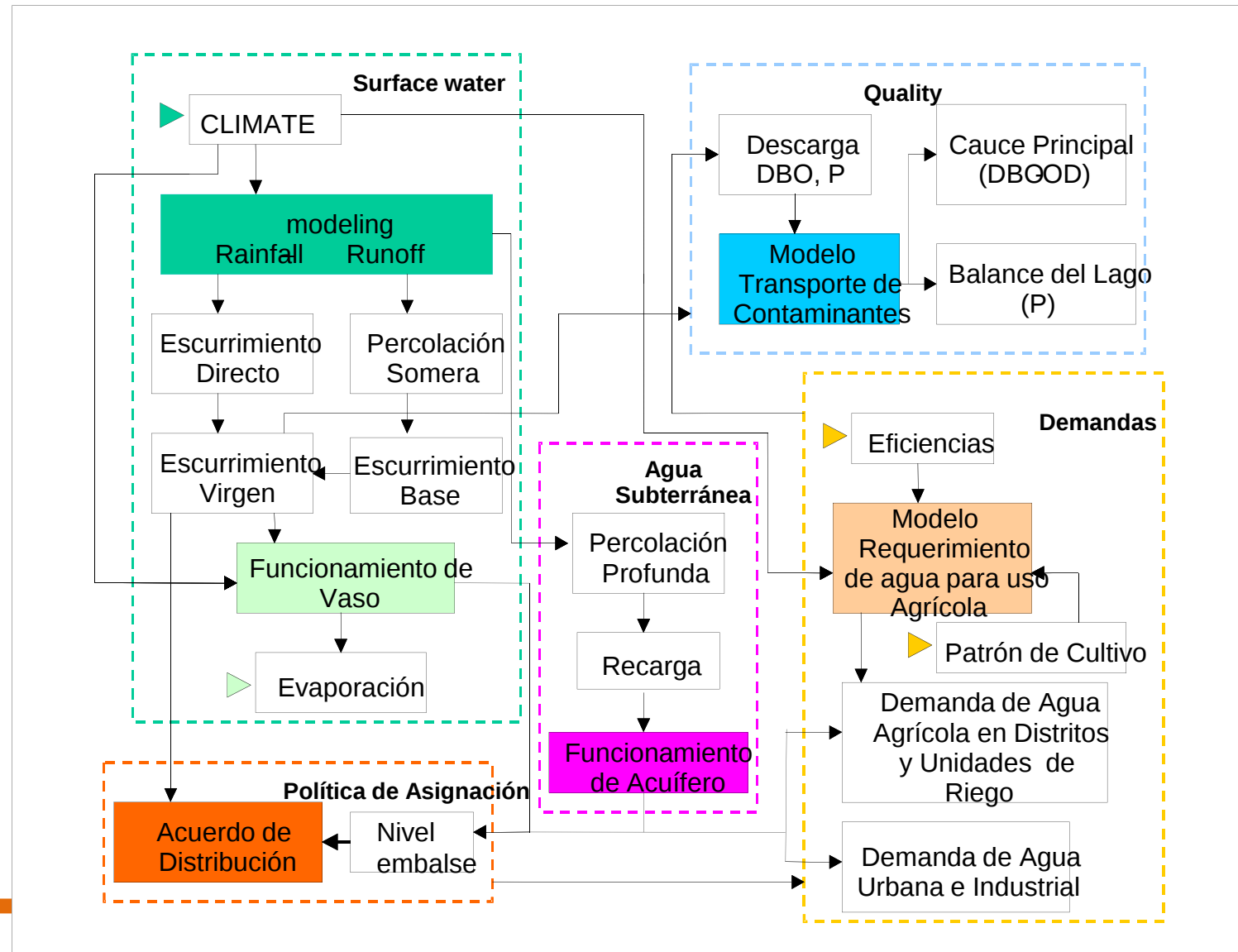
“Bring the knowledge together”



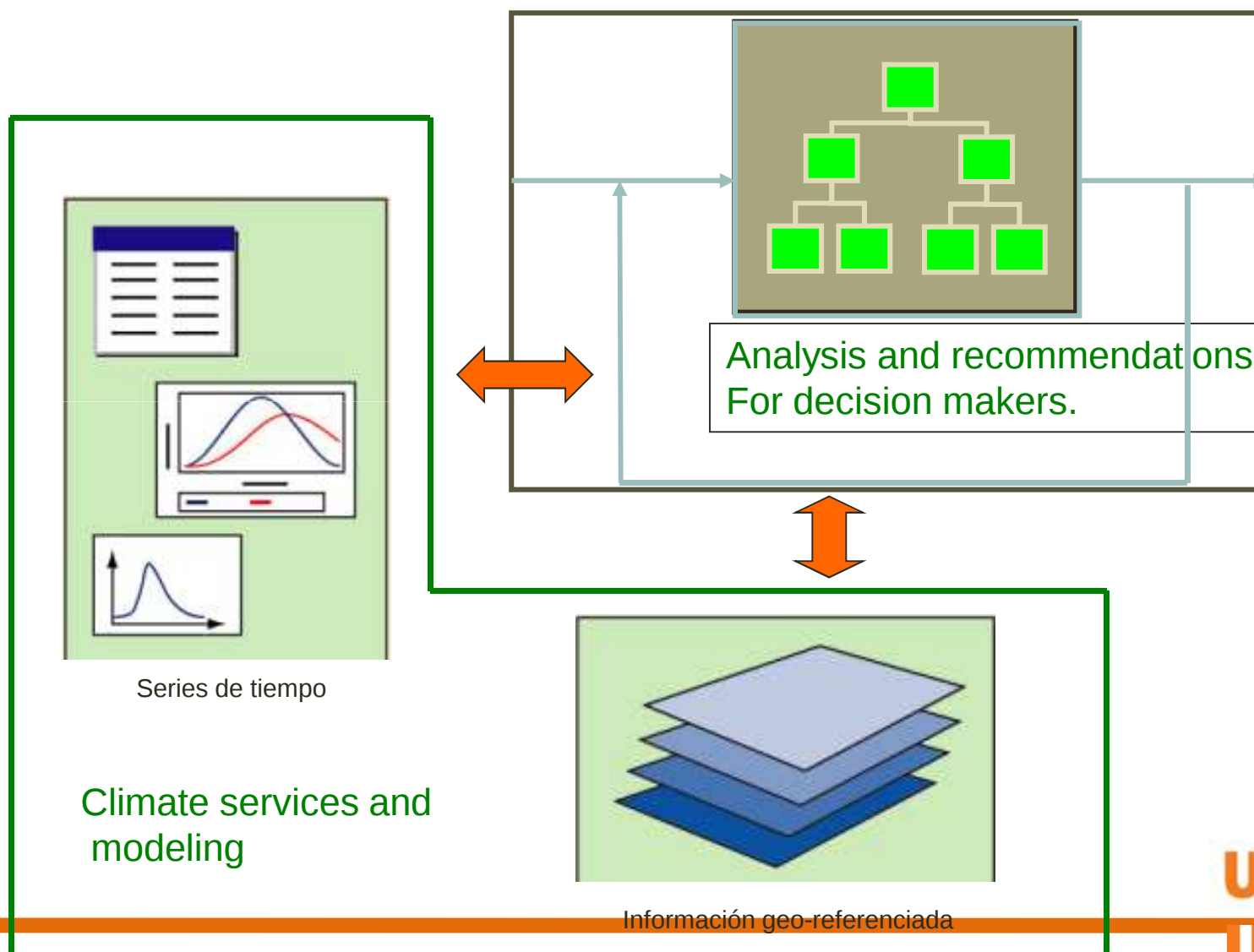
CLIMATE SERVICES AND ITS APPLICATION



SIMULATION MODELS AND COMPLEX SYSTEMS



INTEGRAL SYSTEM FOR DECISION MAKERS AND OTHER END-USERS.



First steps towards new bi-regional activities - 3 phases

- Design a survey for mapping the infrastructure in LAC and EU related with climate services, data and projects.
- Generate indicators to compare the current infrastructure in some local observatories in LAC – EU.
- Design and implement a common platform to share knowledge, data and climate services between LAC- EU. It should include an strategy to capacitate technical advisor and local scientist to policy makers and end – users.

Identify the potential partners

- JPI Climate <http://www.jpi-climate.eu/home>
- CLARIS LPB <http://www.cmcc.it/projects/claris-lpb-a-europe-south-america-network-for-climate-change-assessment-and-impact-studies-in-la-plata-basin>
- IAI-CRN3035
[http://www.iai.int/index.php?option=com_content&view=article&id=156:crn3035Climate, land use & groundwater](http://www.iai.int/index.php?option=com_content&view=article&id=156:crn3035Climate,landuse&groundwater)
- PNNAT-11289024 (Satellite-based assessment and monitoring of global change)
- **ROBIN - Role of Biodiversity in Climate Change Mitigation**

Identify funding sources

- **H-2020**

- SC5-10-2014/2015: Coordinating and supporting research and innovation for the management of natural resources: **[2015]** An EU support mechanism for evidence-based policy on biodiversity & ecosystems services: **Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices** [should build on existing science-policy interfaces and include all EU Member States, Associated or Accession Countries and should be open to observers.]
- DRS-9-2014/2015: Disaster Resilience & Climate Change topic 1: Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices: **Innovation actions [2015]** [Focused to the Member States, Associated Countries and the **EU Overseas Countries and Territories.**]
- DRS-22-2015: Ethical/Societal Dimension topic 3: **Impact of climate change in third countries on Europe's security** [This action will help stakeholders to better understand consequences of climate change events in Third Countries and its security implications for the EU.]

Identify funding sources

- DEVELOPMENT COOPERATION INSTRUMENT (DCI) 2014-2020
- MULTIANNUAL INDICATIVE REGIONAL PROGRAMME FOR LATIN AMERICA

COMPONENT 1: Multiannual indicative programme for continental activities with Latin America;

- Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela.
- Priority area:
 - Environmental sustainability and climate change
- Specific objectives:
 - Foster exchange and cooperation on environmental and climate change-related challenges in order to promote sustainable management of natural resources and ecosystems and integrate sustainable development policies at national and local level.
 - Strengthen regional networks to create knowledge and to share experience, through inter alia, peer learning and exchanges of best practices.
 - Reinforce the capacity of LA countries to mitigate and adapt to climate change in particular by seeking to reduce the vulnerability to climate stress and improving disaster risk management.

Summary:

- **Joint efforts**

Observatory should go beyond just mapping or collection data: It should include sharing knowledge, map the current institutional capacity in LAC about the observatories related with biodiversity and climate services, and proposed an strategy to improve them if necessary.

Summary:

- Map the actual observatories
- Share knowledge related water, biodiversity and climate services
- Integrate isolated efforts for improving climate data available.
- **Follow what INSPIRE European Directive proposes:** to reinforce the interoperability and sharing the data.
- Specify the support needed to create and implement the observatories network

Thanks!

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