



REPUBLIQUE DU SENEGAL
Un Peuple – Un But – Une Foi



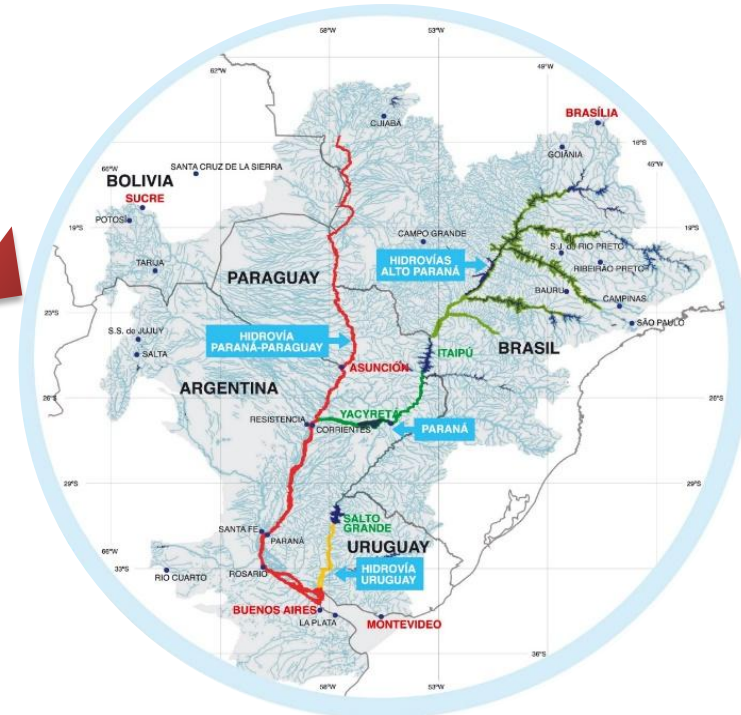
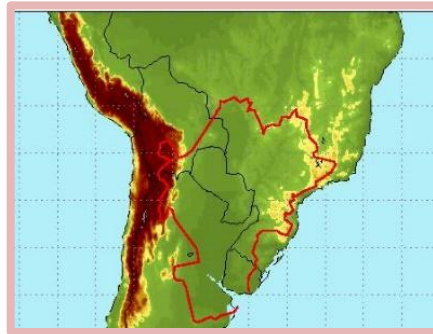
9TH WORLD WATER
FORUM | DAKAR 2022

Building resilience through data & knowledge-based solutions in La Plata Basin



CIC
Cuenca del Plata

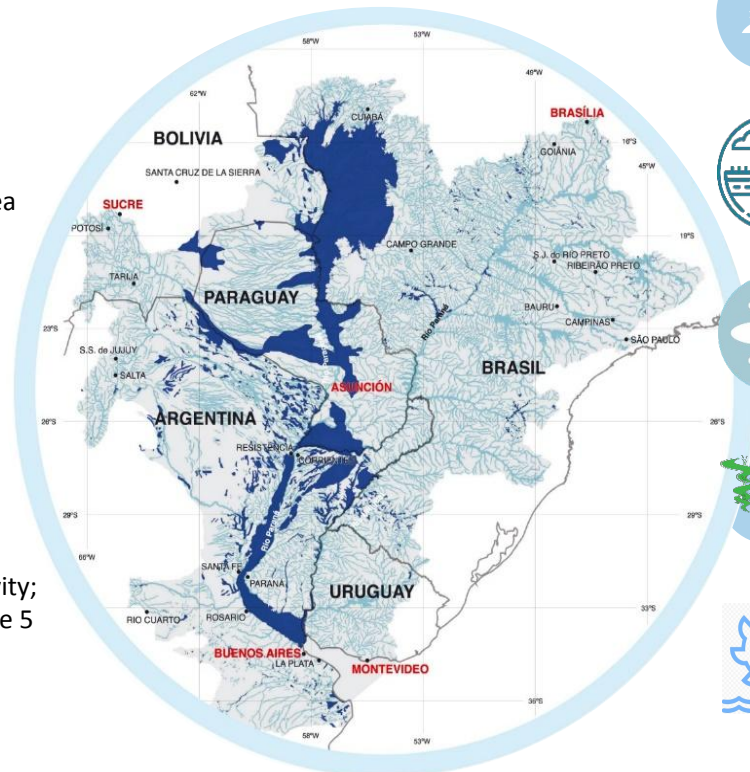
LA PLATA RIVER BASIN




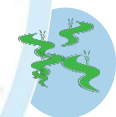



In 1969 the governments of the five (5) countries that make up the La Plata Basin signed the La Plata Basin Treaty, the main legal instrument that governs the Basin, whose principle of multiple and equitable use of water seeks to be implemented.

GENERAL DESCRIPTION

-  Argentina, Bolivia, Brazil, Paraguay and Uruguay
-  Surface: 3,100,000 km²
17% of the South American area
5th in the world
2nd in South America
-  More than 120 million people, more than 300 cities with more than 100 thousand inhabitants
-  Very diversified economic activity; produces 70% of the GDP of the 5 countries



-  **Estuary and main rivers:** among the longest in the world: Paraná 2,570 km, Paraguay and Uruguay
-  **Wetlands South America:** 3,500 km² in area
-  **Aquatic biodiversity:** + than 908 species of fish
-  **Sub-basins:** Upper Paraguay, Lower Paraguay, Upper Paraná. Lower Paraná, Upper Uruguay, Lower Uruguay, Rio de la Plata
-  **Hydroelectricity: 93,000 MW** (80% Br); 66% in use; 150 plants (72 with power greater than 10MW)

CHALLENGES FACING AT THE WATER BASIN

Extreme hydrological events

- Floods and droughts linked to climate variability and change

Navigation and Hydroelectricity

- Limits on the effective utilization

Water quality

- Domestic/industrial water pollution

Sedimentation

- Sediment transport, as a natural component of river geomorphology disrupted by extreme climatic events and human activities, such as land clearance

Biodiversity

- Habitat loss and fragmentation

Aquatic resources

- Unsustainable use of fishery resources

Groundwater

- Unsustainable use of aquifers in critical areas

Socio-political conflicts

- Inter-sectorial water use conflicts

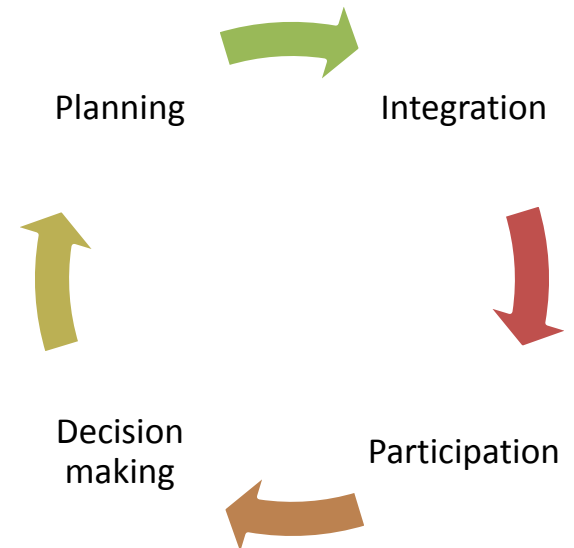
Health

- Unsafe drinking water and deterioration of environmental health

DECISION SUPPORT SYSTEM (DDS)

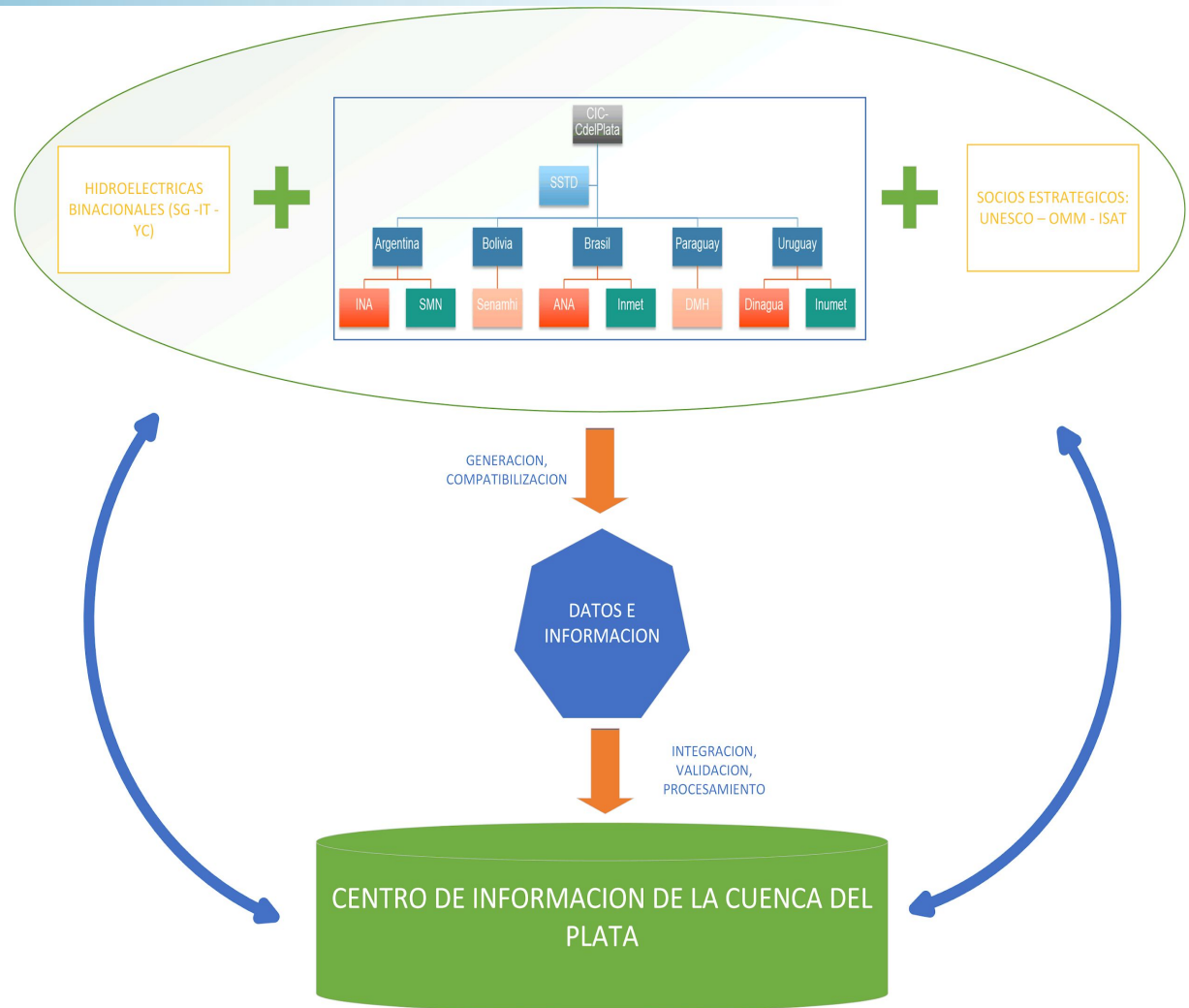
The Decision Support System (DSS) aims to:

- ✓ Contribute to the strengthening of the capacity for integrated water resources management in the region, by providing users with information and tools for planning and decision making.
- ✓ Support the development of all the components of the CIC Strategic Action Plan for its implementation, and particularly the Early Warning Systems, and planning in the context of climate variability and change.
- ✓ Generate knowledge tools for decision-making in the countries, on issues related to floods, droughts, water quality, ecosystems, soils, sediments, among others.

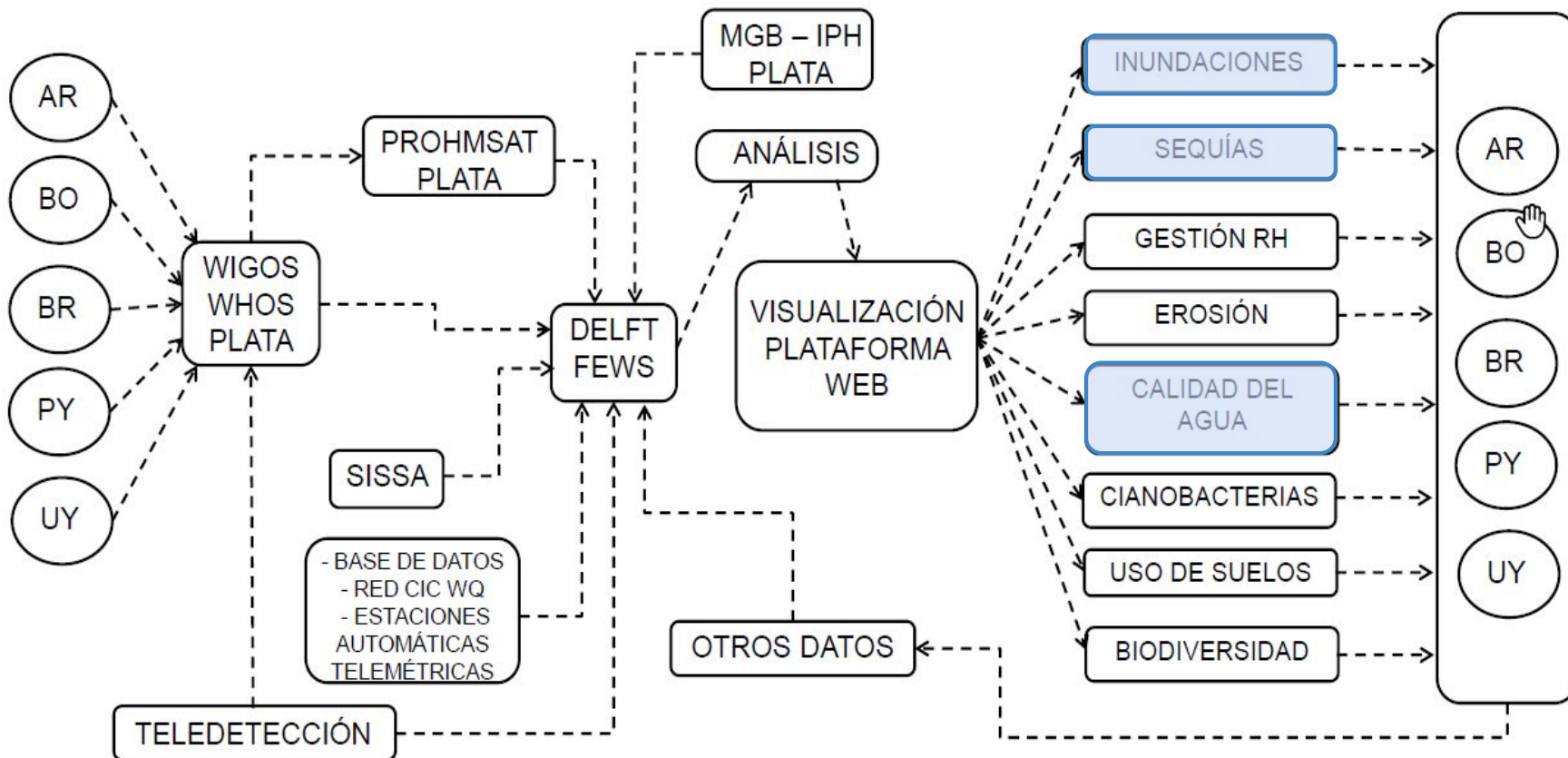


THE SSTD IMPLEMENTATION

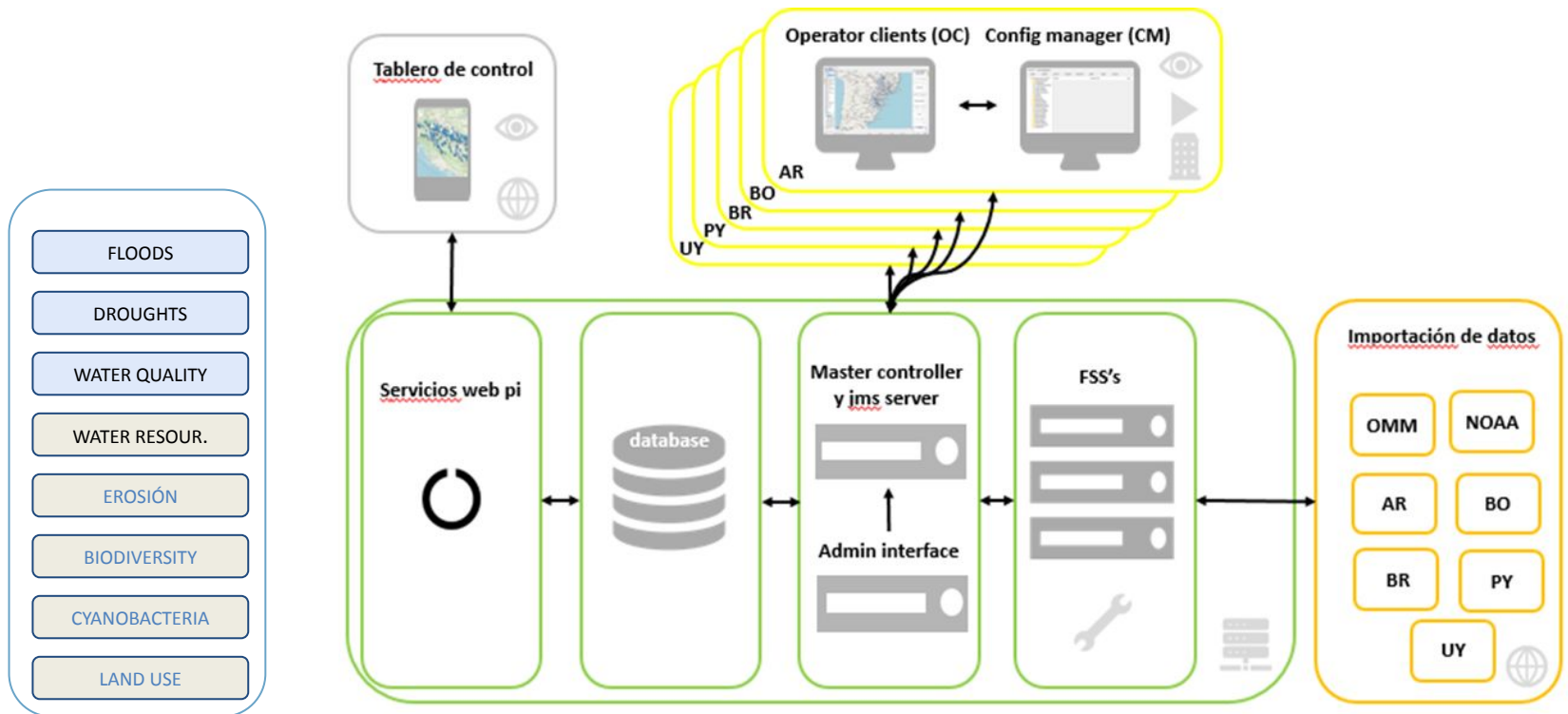
Data integration and management through the expansion of data and product exchange capacities between the hydrometeorological agencies of the 5 countries (Argentina, Bolivia, Brazil, Paraguay and Uruguay) as well as the establishment of an information exchange protocol for adequate administration of the system, as well as the assignment of institutional users at the level of each country. Presentation of hydrological and hydrometeorological information in a friendly format and accessible to different levels of users



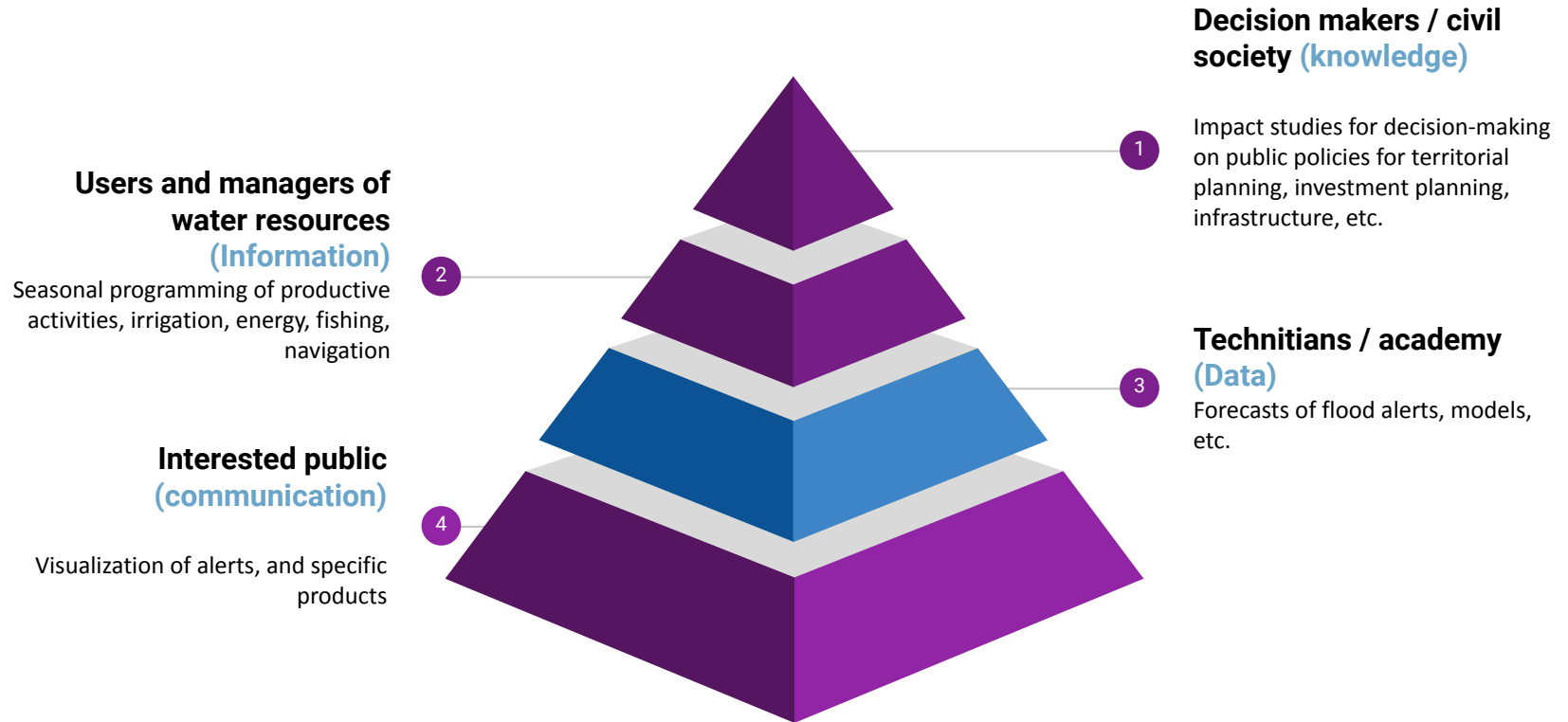
DATA INTEGRATION AND MANAGEMENT



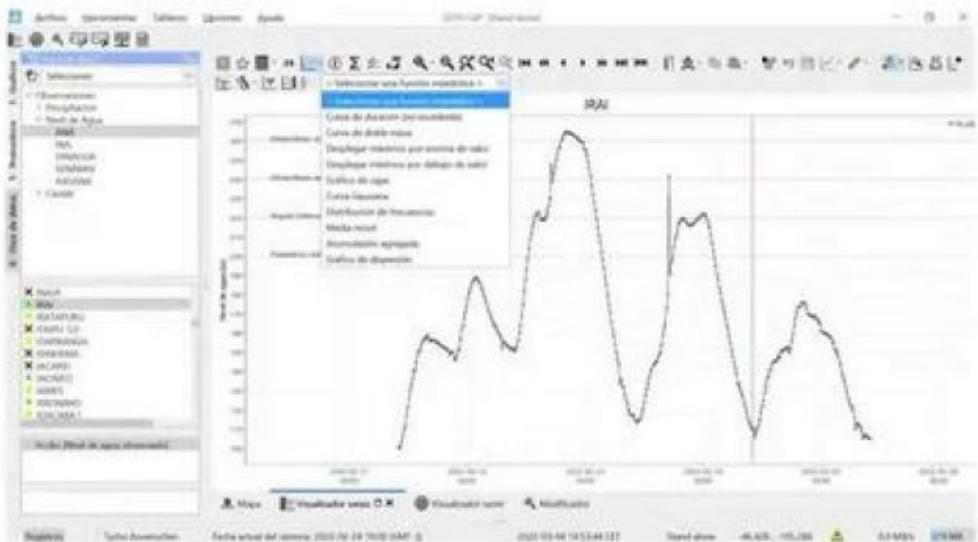
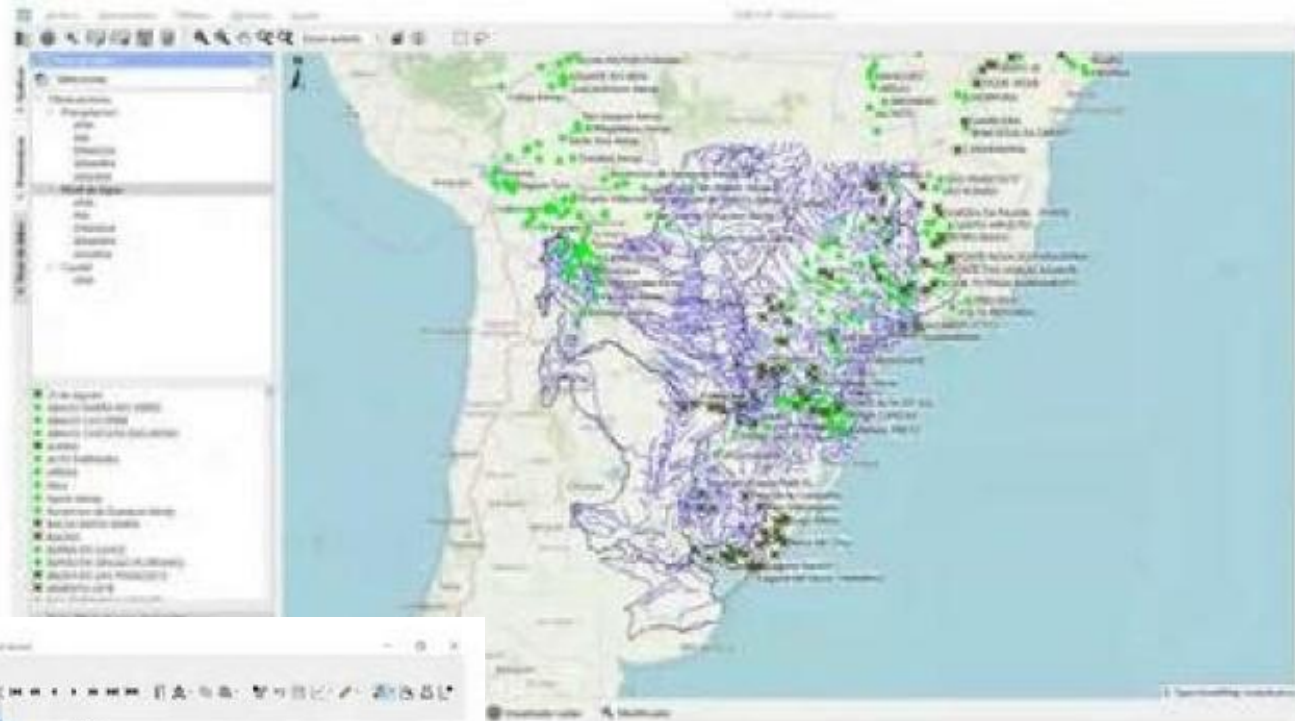
DATA INTEGRATION AND MANAGEMENT



SCOPE AND USERS



THE NEW SYSTEM VIEWS



CONCLUSIONS



Transboundary Vision - A decision-making system that integrates all existing systems is a key tool for the integrated and environmentally sustainable management of the La Plata Basin



Sustainability - The involvement and positive adoption of the SSTD by the organizations of each country, allows its sustainability and development as well as the identification of information gaps in the Basin.



Community - A "SSTD Cuenca del Plata Community" oriented to connect and develop the capacities of the users of the system, guaranteeing its sustainability, growth and development for all the countries that comprise it.

La Plata river basin, include several ecosystems with different hydrological sub-systems, various kinds of water uses supporting different social and economic activities, different types of actors with different interests related to water and numerous types of 'institutions' – sets of rules, regulations and policies – regarding water allocation that requires complex information systems in order to support decision making in an integrated, participatory, informed and adaptive manner. We have the opportunity to develop and implement the cross-border and sustainable Decision-Making Support System for the La Plata Basin, through the integration and analysis of data from all the responsible systems and institutions in each country that makes up the Basin.

“We are drowning in information, while starving for wisdom. The world henceforth will be run by synthesizers, people able to put together the right information at the right time, think critically about it, and make important choices wisely”.

E. O. Wilson

Thank you for your attention

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