



MINISTÉRIO DA CIÊNCIA E TECNOLOGIA
INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS

FP7 project MyWater:

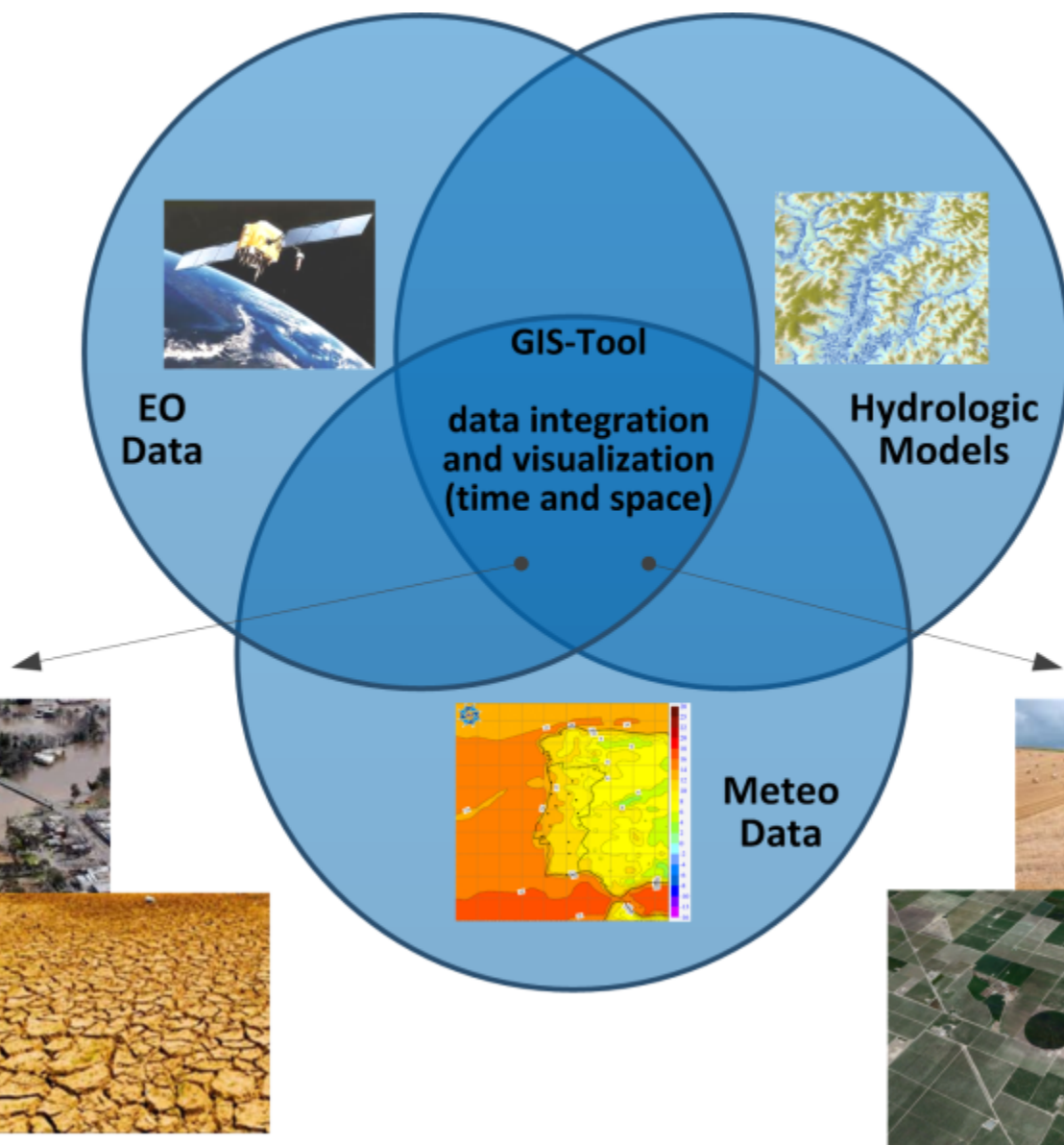
Merging hydrologic models and EO data for reliable
information on Water

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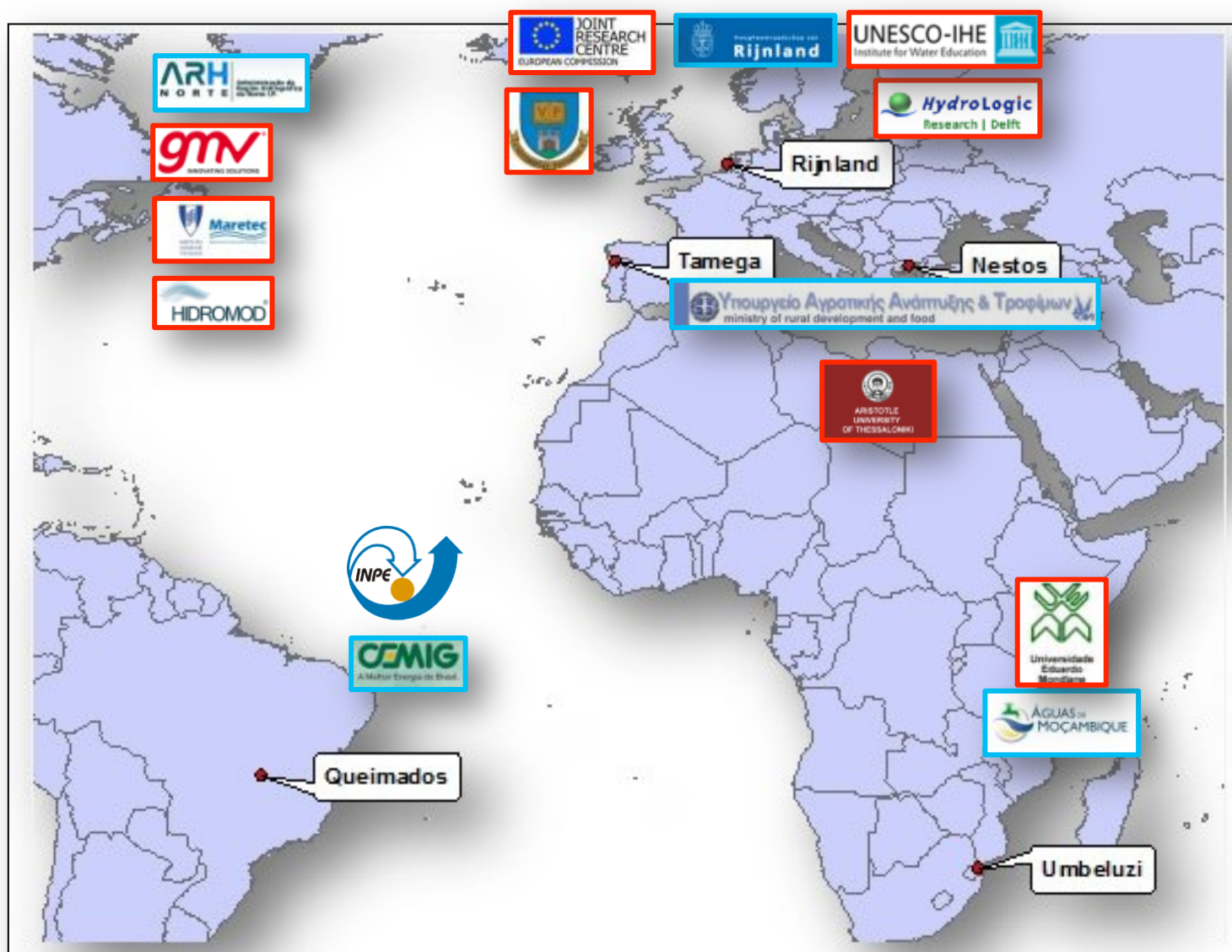


Goal and Concept

- Development of a tool and services to manage all water cycle related variables in an integrated way for appropriate water management
- Use of:
 - Satellite, land and meteorological data
 - Numerical weather forecasts
 - hydrological models
- INPE/CPTEC responsibility in the project: To provide numerical weather forecasts and expertize



Study sites, Partners and Users



User Services

Focusing on 3 main areas

Irrigation

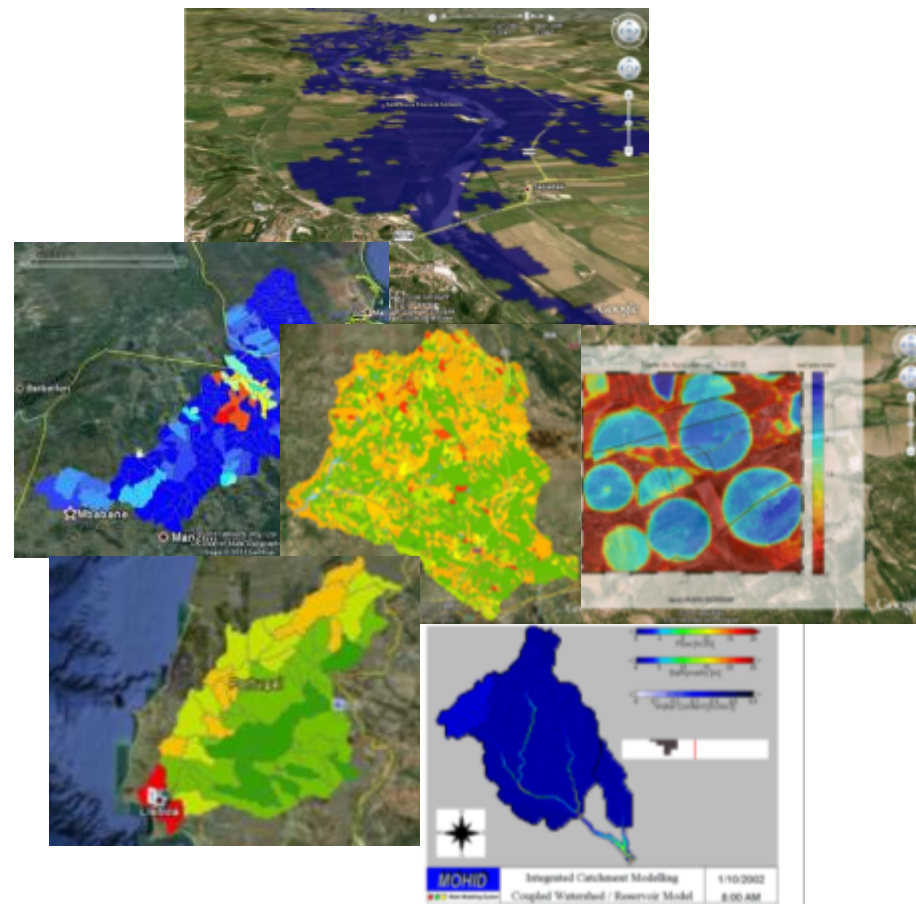
- Water availability and water use

Reservoir management

- Water quality and quantity

Floods

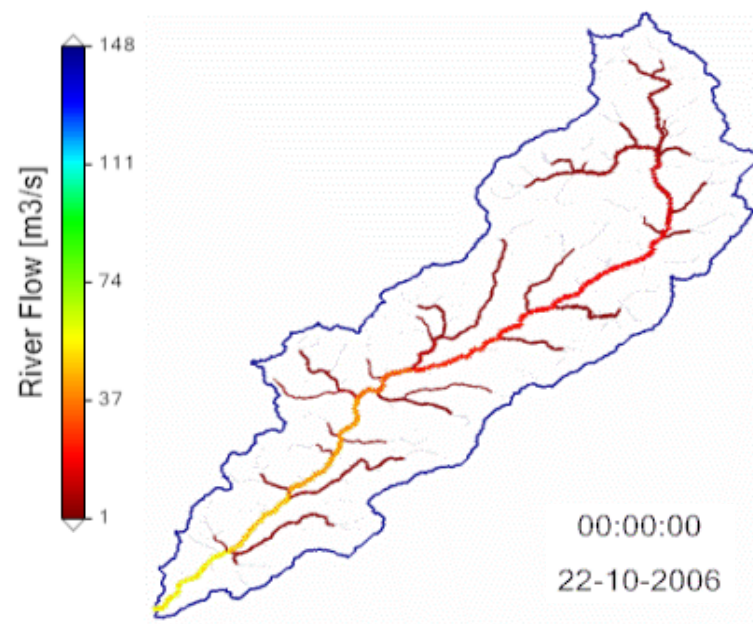
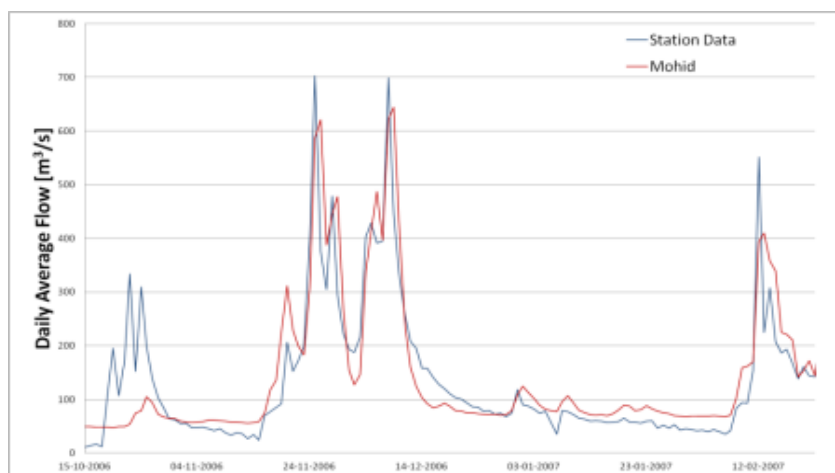
- Prevention and mitigation



User services

Reservoir management

Measurements of flow data
(nowcasts and forecasts).
Provide evaluation on water
input to the reservoir

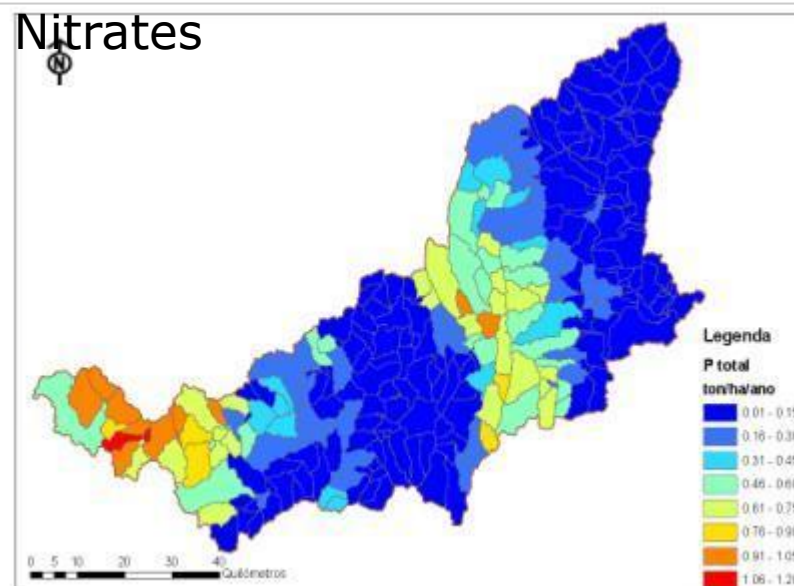
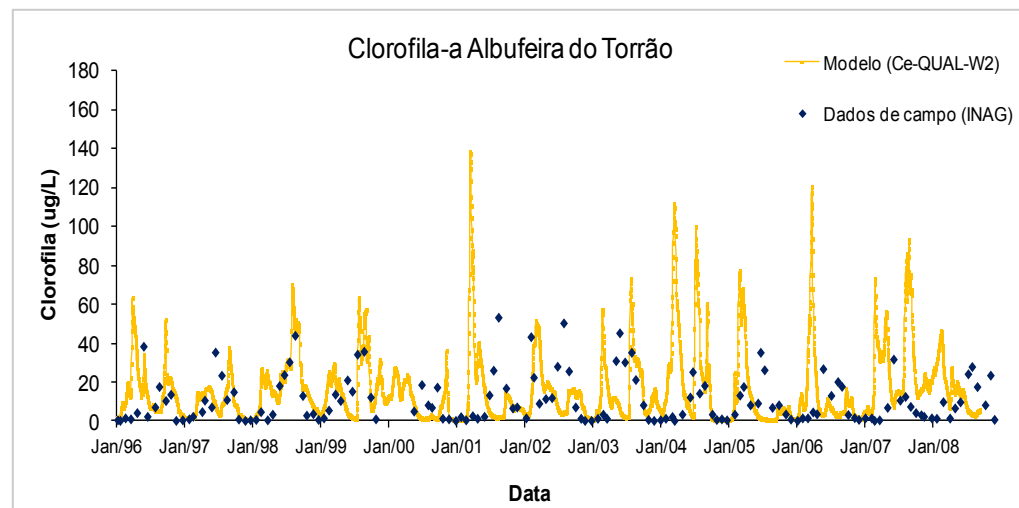


User services

Water quality

Estimation of nutrients loads from diffuse sources that will reduce the water quality (based on land use, soil type, agricultural practices, etc.)

Can support WFD implementation, monitoring, and evaluate mitigation actions





INPE products for the Project:

- 2 years of numerical weather forecast data generated for the 5 worldwide test-case areas.
 - First time that the regional 05 Km model was tried for areas outside South America.
- Extensive evaluation of the model accuracy for all areas.
- Testing for the meteorological forecast use to feed hydrological models.
- Scientific papers under preparation about these tests
- Training of personnel hired to work in the project.



Benefits from the project participation:

- Resources for one more work project
- Creation of internal technological capability
- Strengthening of the organization
- Increase of the contacts network
- To be up-to-date with the recent state-of-the-art



Main Difficulties found:

- There are many administrative and financial details that need to be taken care during the elaboration and reporting of the project.
- Most of the administrative practices are very different from the adopted in Brazil. Eg: funding of the working people and equipments.
- The Brazilian administrative people are not used to the EU procedures => little help from them..
- English also may be an issue...
- The result: overload on the project coordinators and many doubts...



THANK YOU.

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