

Spanish Water Laboratory

TALANOA-WATER Work Package 4

07 - 06 - 2022



Modeling

4 CLIMATE MODELS

- GFDL-ESM2M
- HadGEM2-ES
- IPSL-CM5A-LR
- MIROC5

8 HYDROLOGICAL MODELS

- CLM45
- H08
- LPJmL
- MATSIRO
- MPI-HM
- PCR-GLOBWB
- WaterGAP2
- WaterGAP2-C

3 CLIMATE CHANGE SCENARIOS

- RCP 2.6
- RCP 6.0
- RCP 8.5

1 MANAGEMENT MODEL

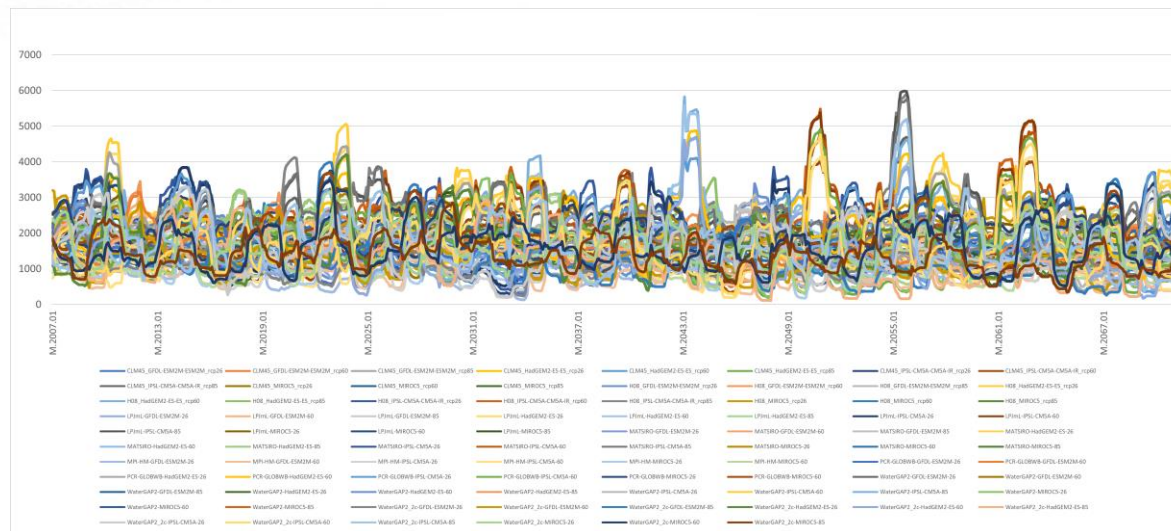
- AQUATOOL (official software of the CHD)

5 MICROECONOMIC MODELS

- PMAUP (PROJECTION MODEL)
- PMAUP (ITERATION MODEL)
- WEIGHTED-GOALS MODEL (WGP)
- PMP HOWITT
- PMP JUDEZ

1 MACROECONOMIC MODEL

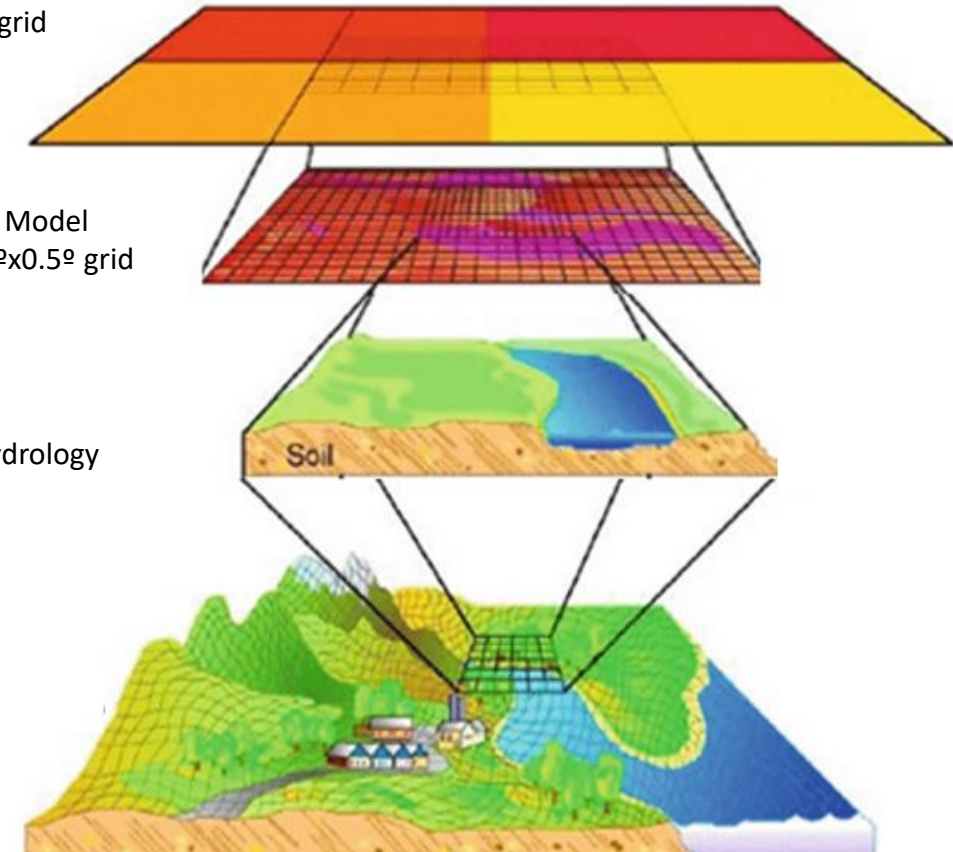
- ICES (CMCC)



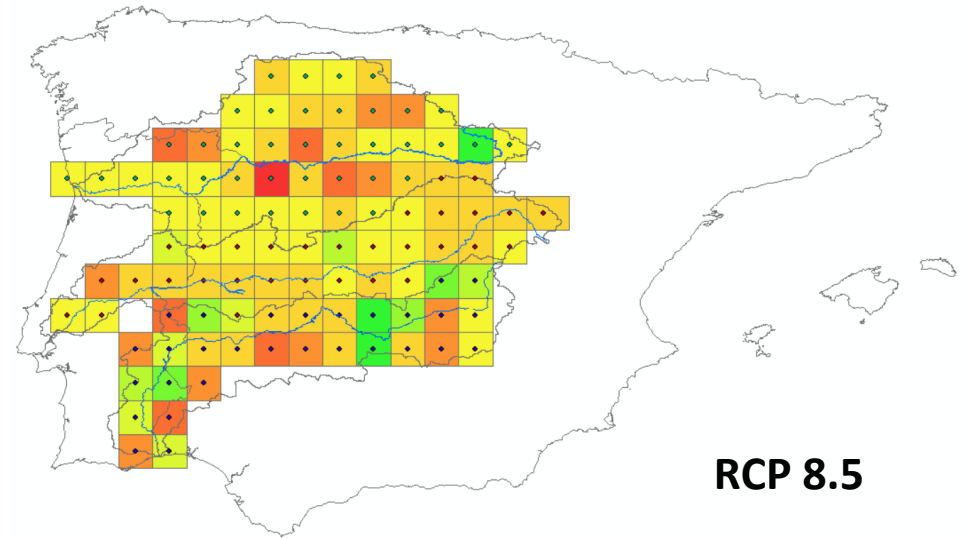
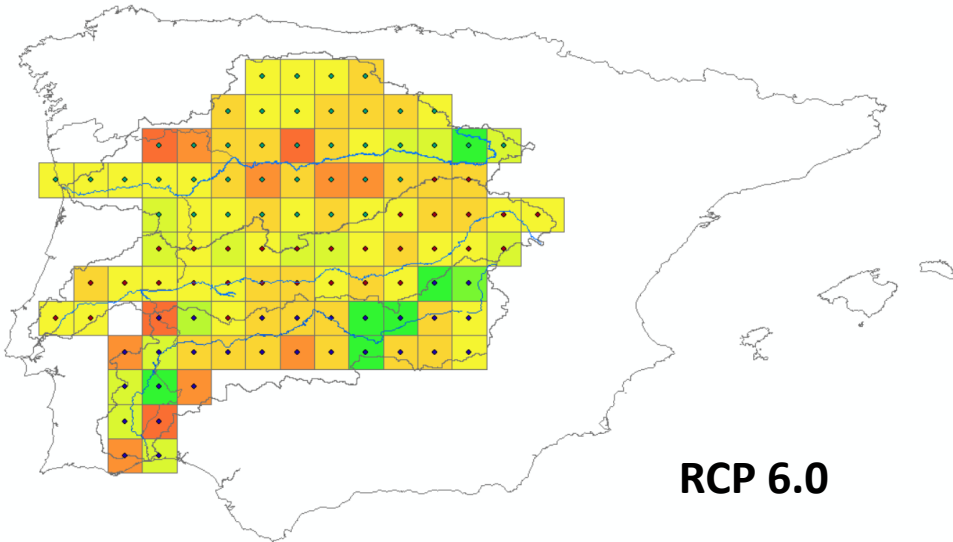
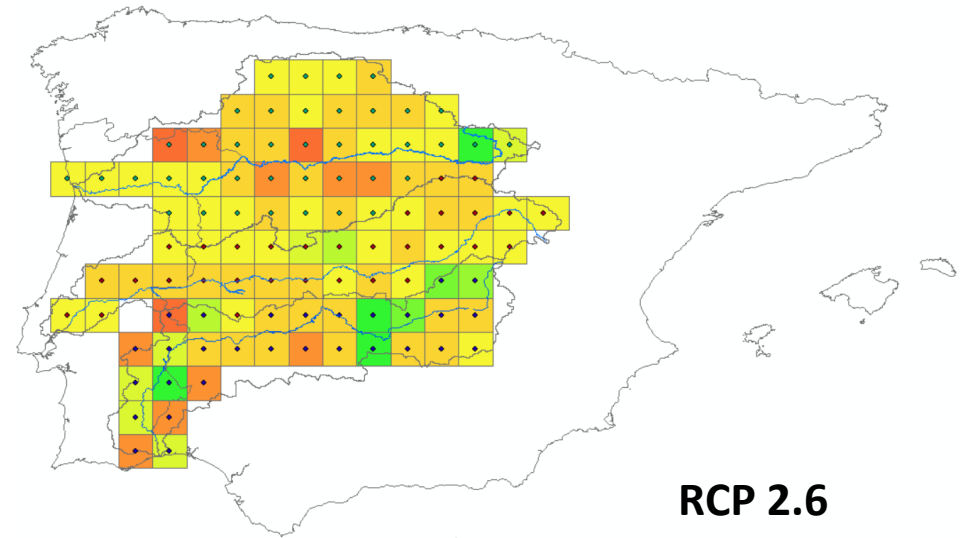
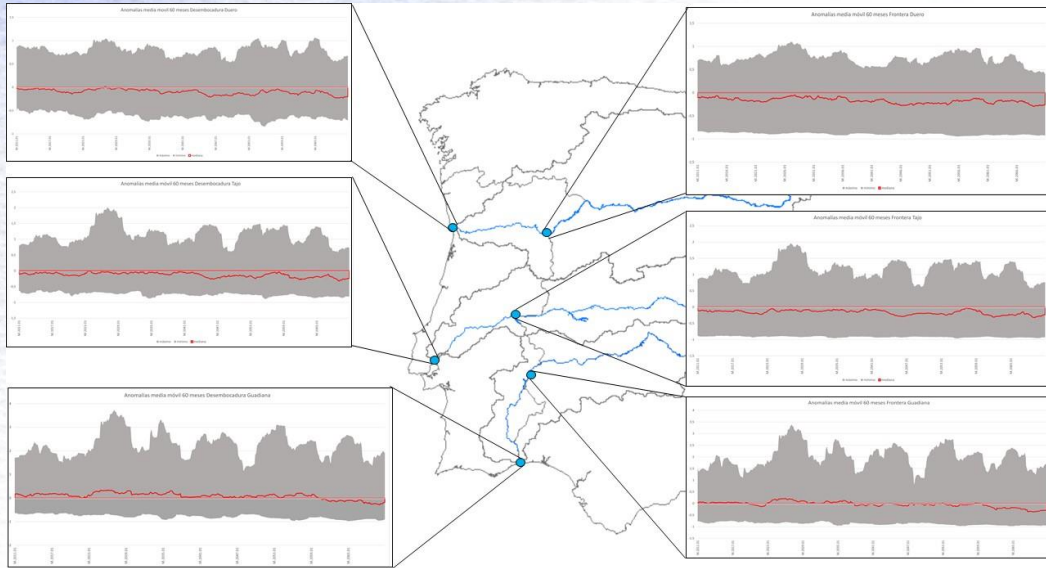
Regular grid

Global Climate Model
Resolution e.g 0.5°x0.5° grid

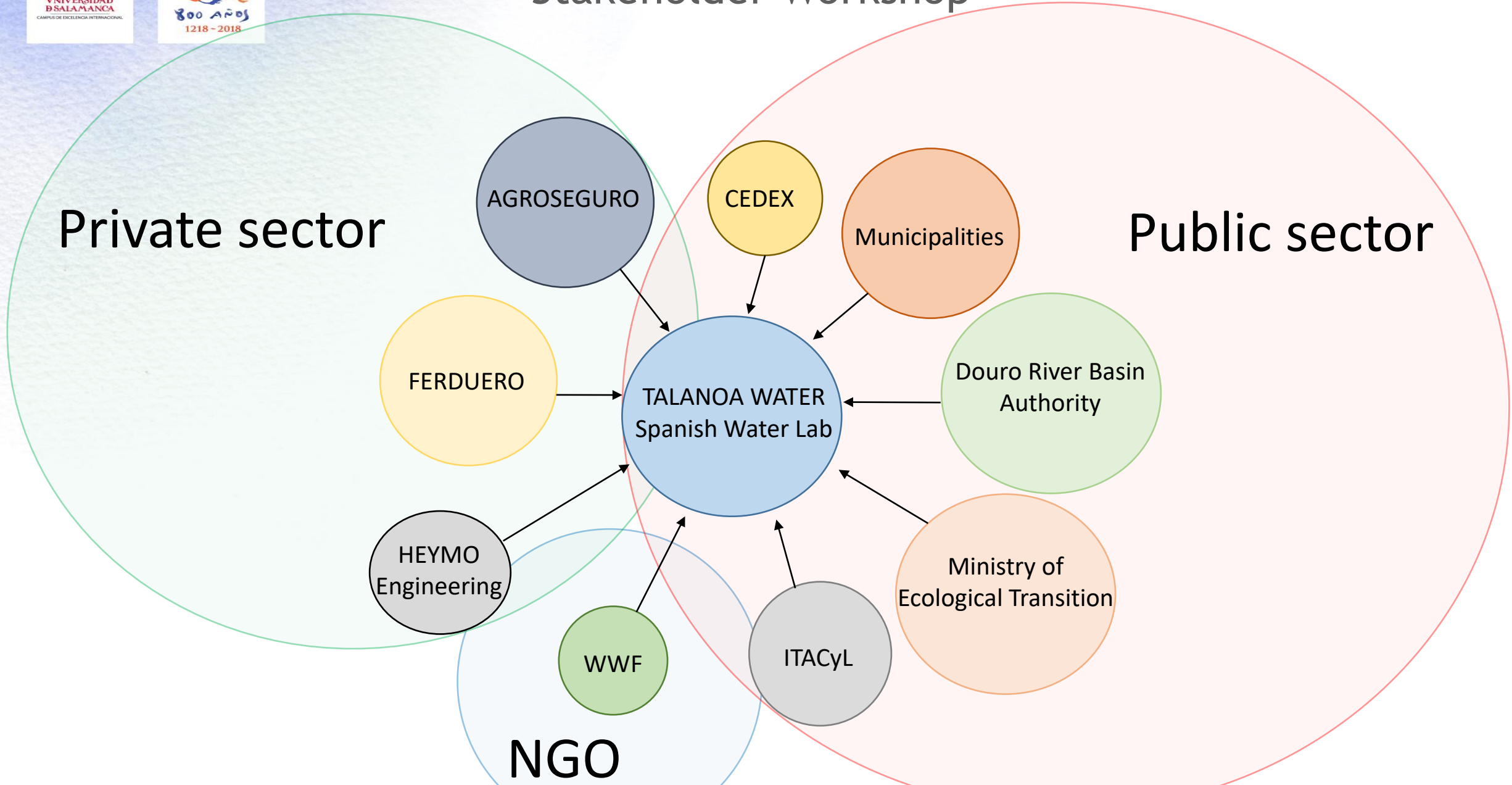
Hydrology



Δ Monthly anomalies for the month of April vs historical average



Stakeholder Workshop





Stakeholders Workshop

Stakeholders identified at the beginning of the project	New stakeholders involved
Douro River Basin (River Basin Authority)	Diputación de Salamanca (Local Government managing urban supply in the Salamanca province)
Ministry for the Ecological Transition (National Ministry)	University of Castille and La Mancha (experts in remote sensing, have applied Hidromore to the Cega lab)
FEDERDUERO (Association of irrigators)	iCatalist, Universidad de Alcalá, Universidad Politécnica (experts in water resources management, part of the HLEAB)
Hydropower operator [finally excluded - no contract has been awarded]	CEDEX (Public Agency)
AGROSEGURO (Pool of agricultural insurance firms)	HEYMO Engineering (Private R&D in charge of developing the river basin management plan)
Plataforma Sí a las Fuentes del Río Cega (Citizen platform)	Technical Office & River Basin Planning Office of the Douro River Basin Authority (River Basin Authority)
WWF (NGO)	



Stakeholders Workshop location



Thank you for your
attention

