

EDgE

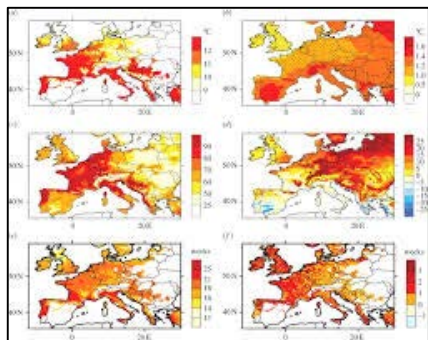
**End-to-end Demonstrator
for improved decision
making in the water sector
in Europe**

**Dr Gwyn Rees
Centre for Ecology & Hydrology, UK**



Bridging the gap between...

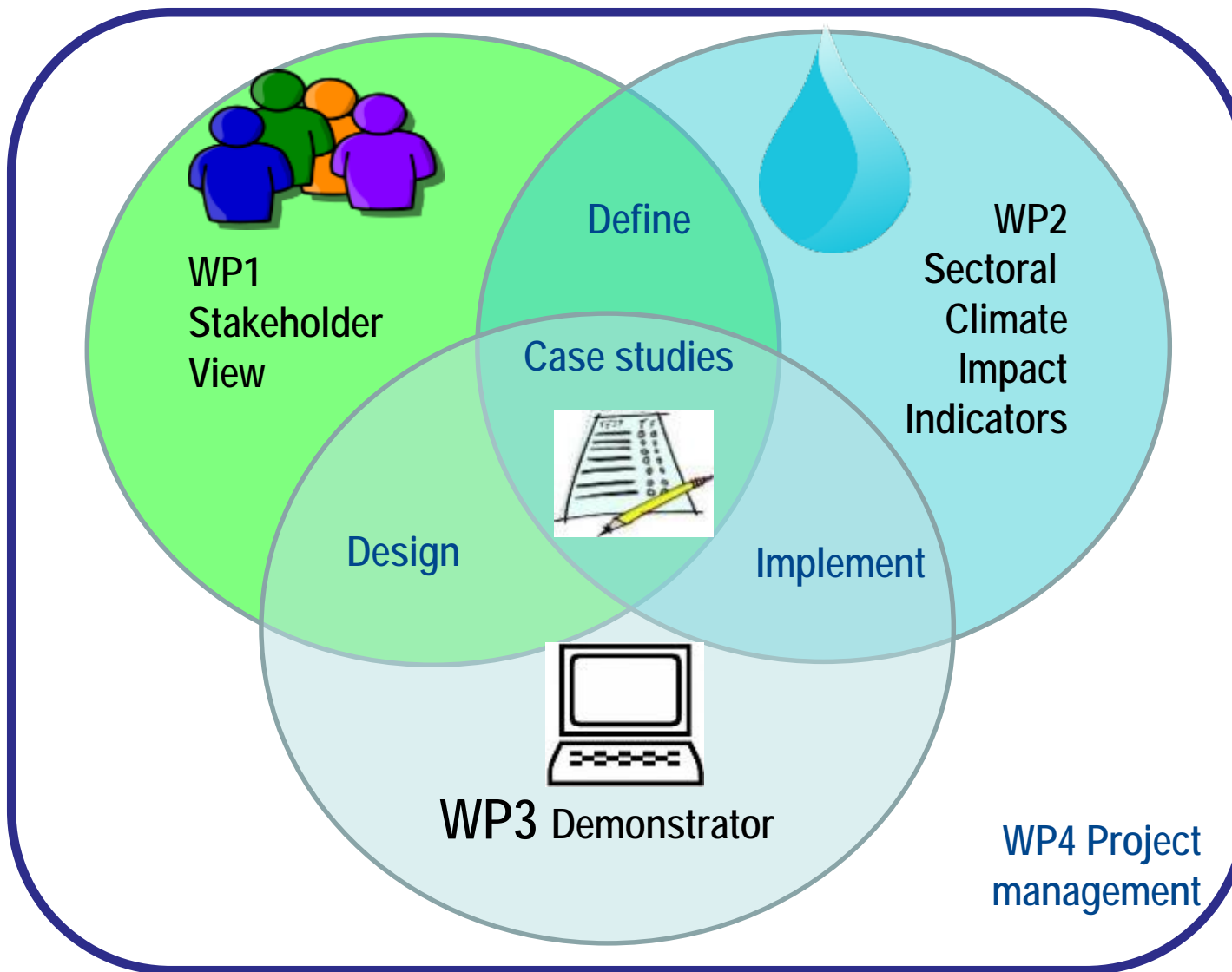
**What climate
models produce**



**What decision
makers need**



**By placing
decision-makers at
the heart of the
research**



Value: €1.6M

Duration: 25 mnths

Finish: Dec 2017

Project partners:

CEH, UK

UFZ, Germany

EA, UK

NVE, Norway

Princeton, USA

Cetaqua, Spain

MENBO, Spain

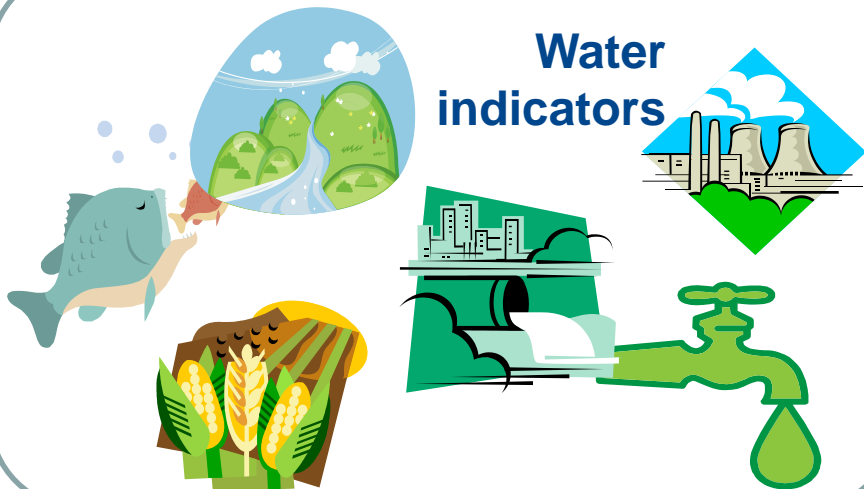
EDgE outputs



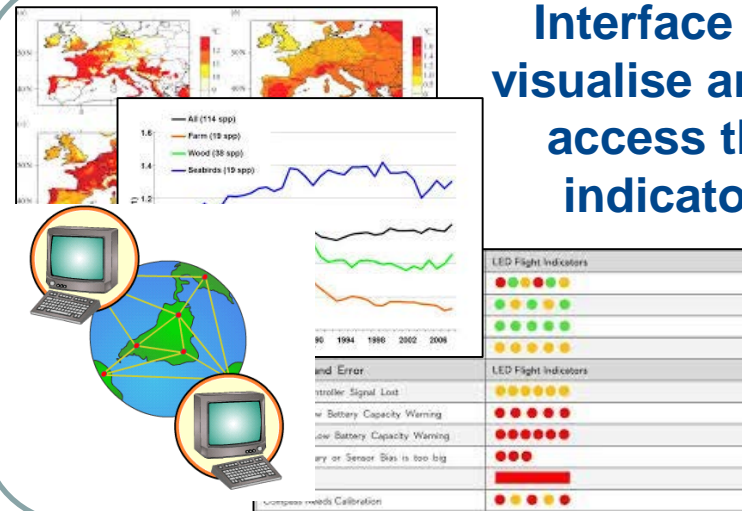
European
Commission



Water indicators



Interface to visualise and access the indicators



**Full evaluation
& market
analysis**



Users guide



**Technical
documentation
& protocols**



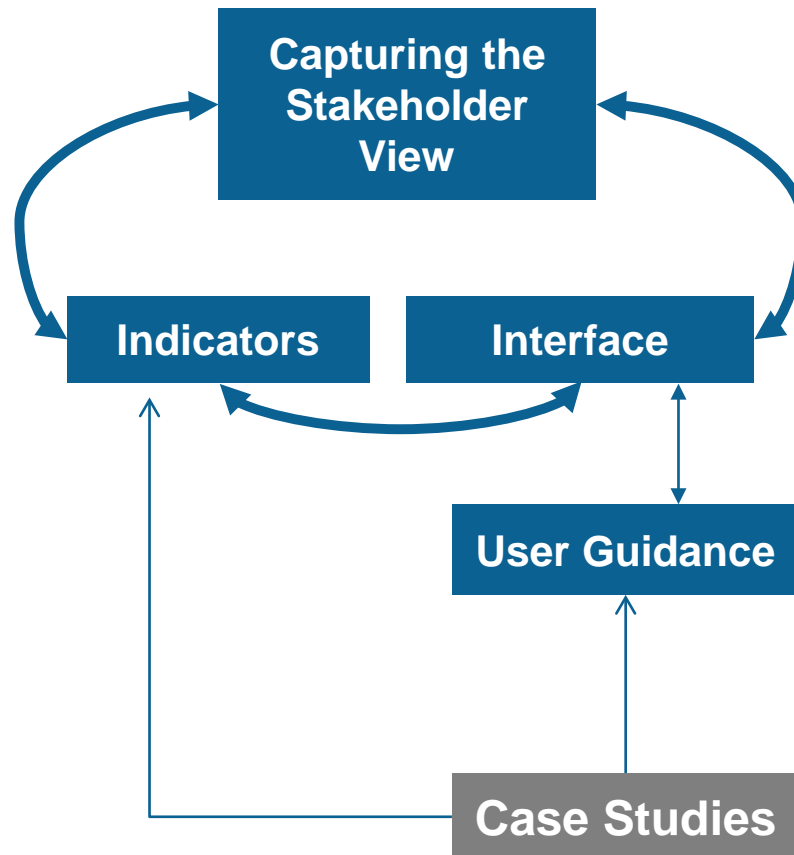
**Open-access
codes in VPN
repository**

Focus Groups

Theoretical Framework

Stakeholder
Engagement
Framework

Evidence Gathering



Deliverables

SCIs
User friendly interface
User guidance
Technical reports
Case Study fact sheets
Model output

Focus Groups & Case Studies in 3 contrasting parts of Europe:

Spain

Norway

United Kingdom



Norway issues

snow-dominated region, with a powerful hydropower sector strongly dependent on the hydroclimate, and local long-term planning largely impacted by possible shifts in hydroclimatic risks.

Norway Case Study focus

Long-term water resource planning and adaptation measures.

Spain issues

shared water management and water scarcity in a semi-arid climate, where water allocation decisions at short- and long-term must account for multiple and possibly conflicting water needs.



Spain Case Study focus

Operation and planning of water supply.

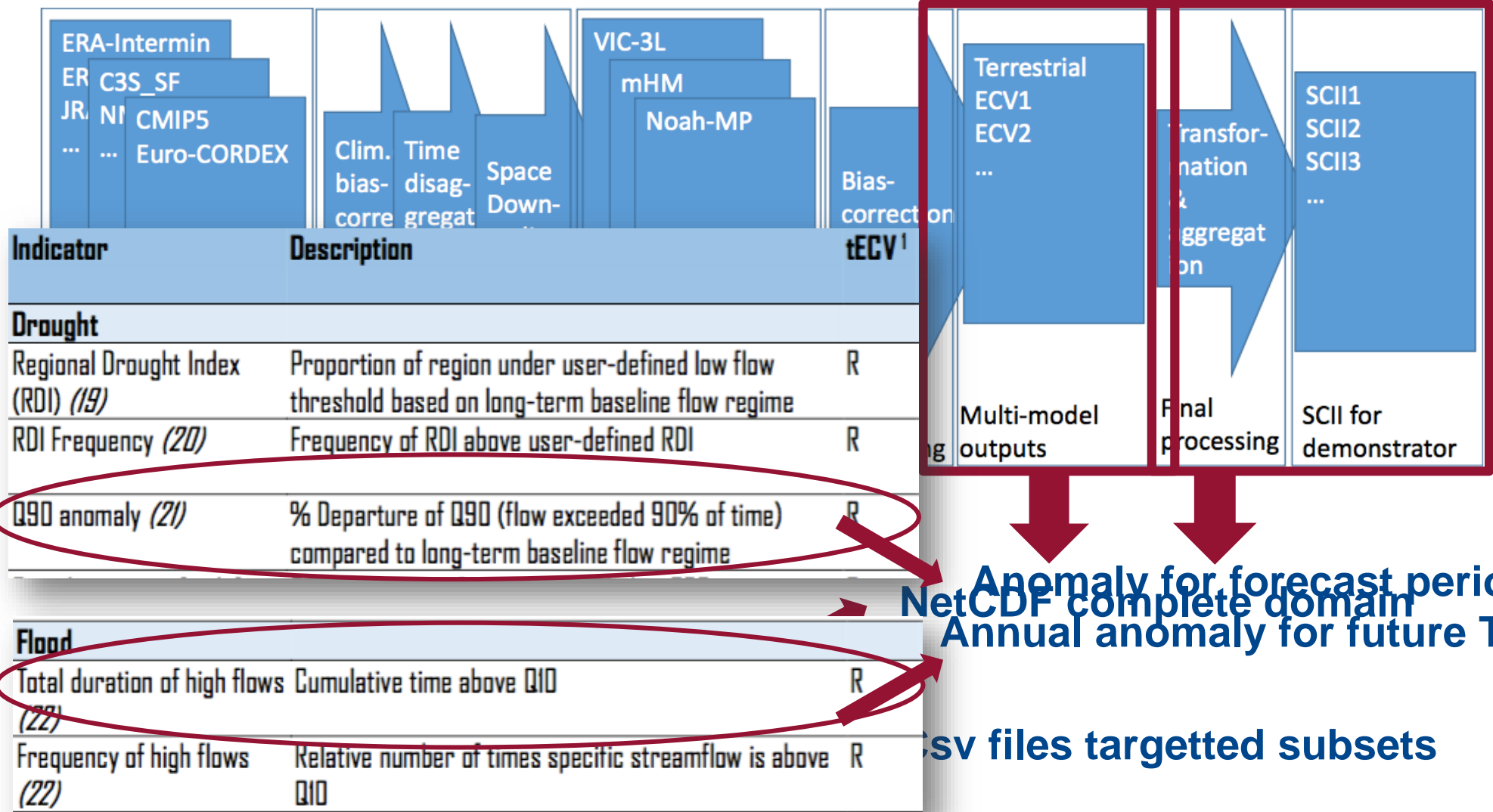
UK issues

diverse and strongly regulated water supply-demand systems, where climate change impact must be accounted for in all long-term water and drought management plans.

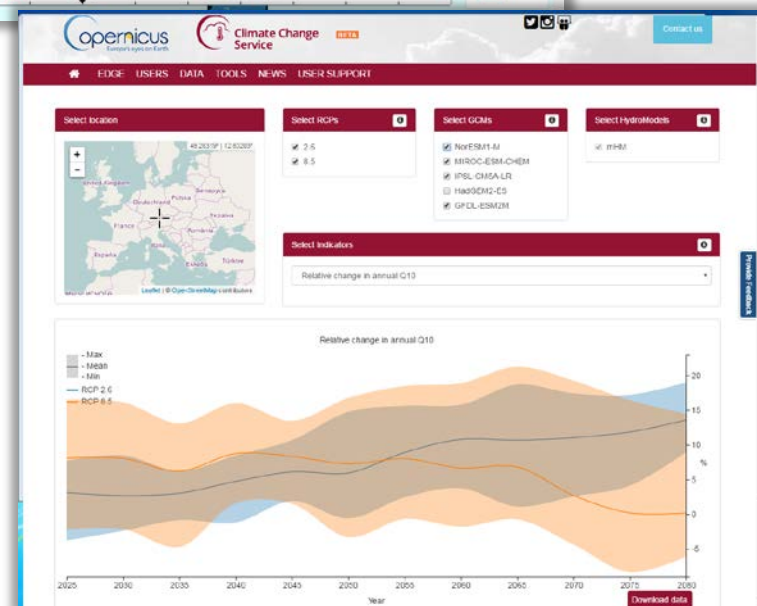
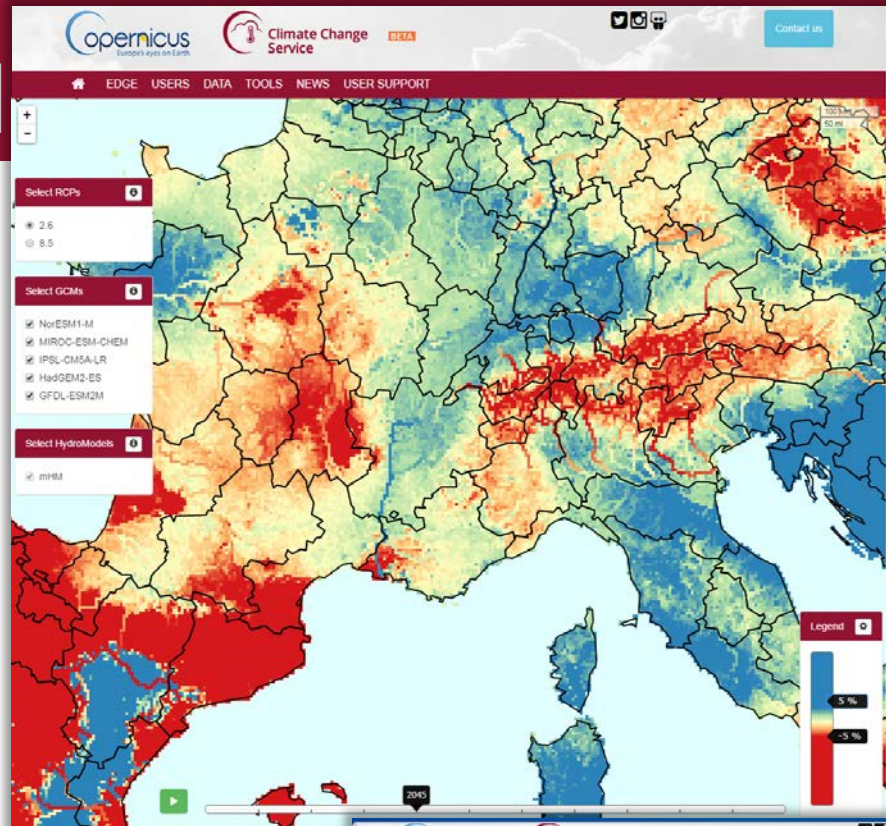
UK Case Study focus

The value of European SIS compared with existing national services.





EDgE Interface



- **Simple presentation**
 - Maps and time-series plots
 - Narrative films
- **Uncertainty and model skill**
 - For seasonal forecasts & long-term projections
 - How best to visualise/ disseminate?
- **Access to underlying data**
 - Subset of point data
 - Gridded data to drive models
 - NetCDF/ csv files/ GIS format

Thank you

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