



INTRODUCTION





Main information about project:

- 1 October 2022 30 September 2026, 4 years
- EU budget: 4.5 MEuros
- Coordination: Deltares (NL)

Consortium:

- Research partners: INRAE (FR), Vandersat (NL), BOKU (AU), IGME (ES), UCM (ES), SEVEN (GR),
 GeoEcoMar (RO), UKCEH (UK), FZJ (DE), JKU (AU), WULS (PO)
- Stakeholder partners: RWS (NL), NVE (NO), BfG (DE), CHR, ICPDR, Lower Danube River Administration (RO), Anglia Water Services (UK), Seine Grands Lacs (FR), Duero River Basin Authority (ES), Region of Crete (GR), Hellenic Ministry of Environment (GR)

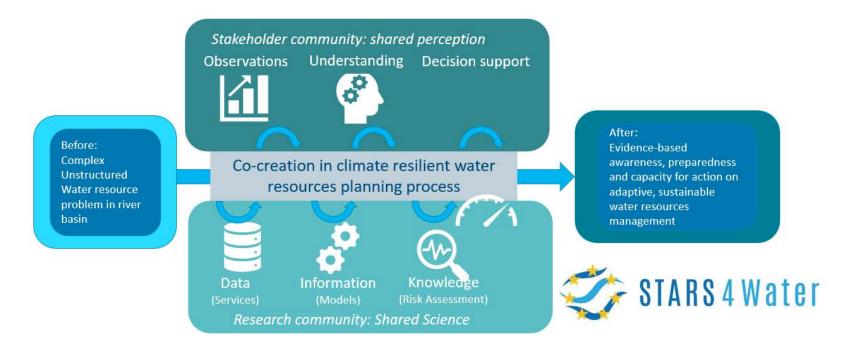
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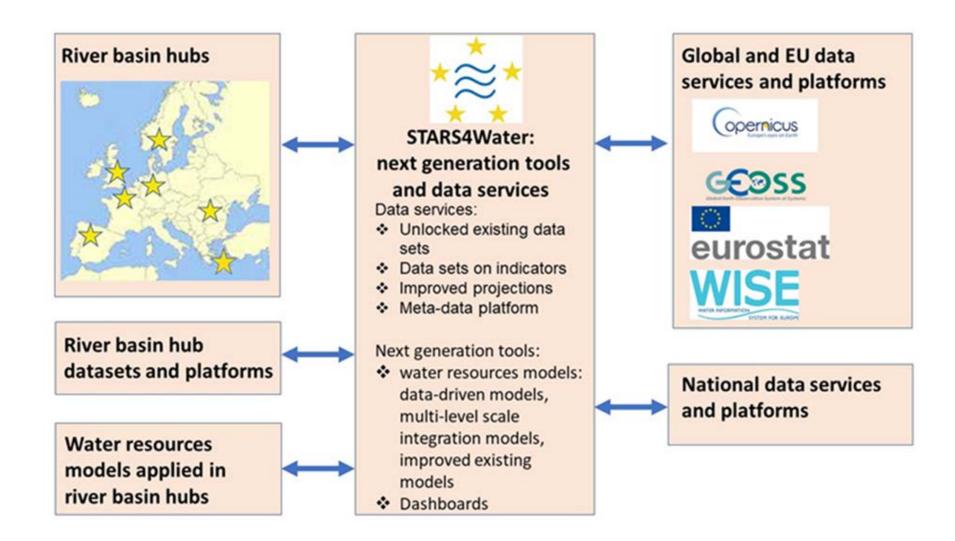
STARS4Water is about:

- To improve the understanding of climate change impacts on water resources availability and the vulnerabilities for ecosystems, society and economic sectors at river basin scale.
- To develop and deliver new data services and data driven models for better supporting the decision making on planning on actions for adaptive, resilient and sustainable management of freshwater resources.













Upcoming water demand datasets by STARS4Water:

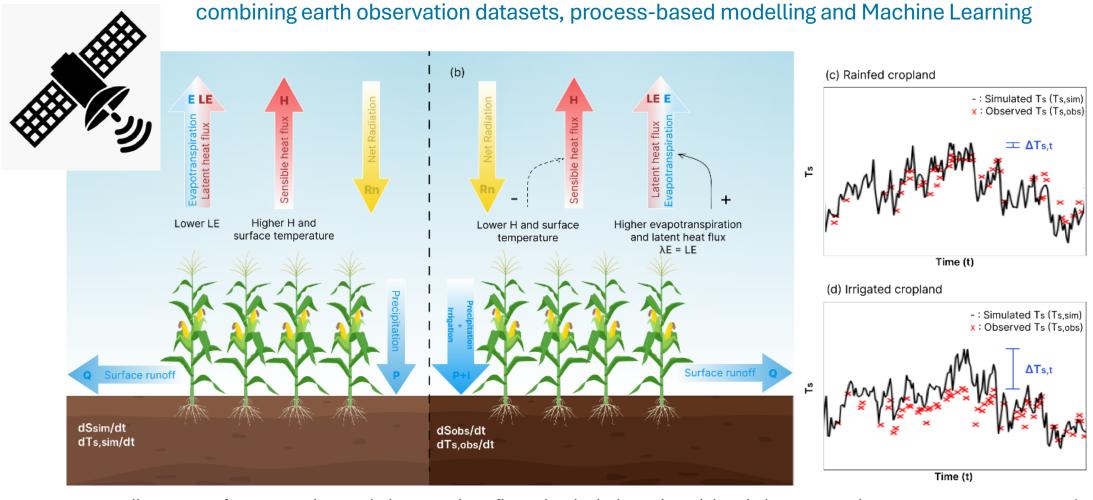


Figure: Illustration of energy and water balance in the wflow_sbm hydrological model and observations (Purnamasari, in preparation)

STARS4Water Metadata Portal





Access to portal through STARS4Water website

- open access to open data to support understanding of water resources at river basin scale
- metadata portal is providing access to >400 data
 sets (global, EU, national, river basin)
- new data sets on hydrological parameters are becoming available in spring 2025
- STARS4Water water resources projections are becoming available in autumn 2025 / spring 2026



CONCLUSIONS





What have we learned from basin stakeholders:

- **Urgent need** for data and information to better understand hydrological processes and water resources availability within river basins (water use, climate change, impacts on ecosystems, society and economy)
- Untapped potential: EO data sources being unknown or not findable by basin stakeholders
- Too complex: the time and effort needed for the end-user to access and explore the data, become familiar with it and assess its applicability is significant and often not available
- Uncertainty in sustainability: concerns about the availability of data in the future, terms of use, or about the reliability and accuracy of the data
- **No fit for purpose:** gaps between the available data and the required information at the basin scale (data services)
- Wide range of stakeholder driven data needs: river basins across Europe face many challenges, but need for data is in many cases very river basin specific (e.g., glacier and snow melt, agricultural water use,).