





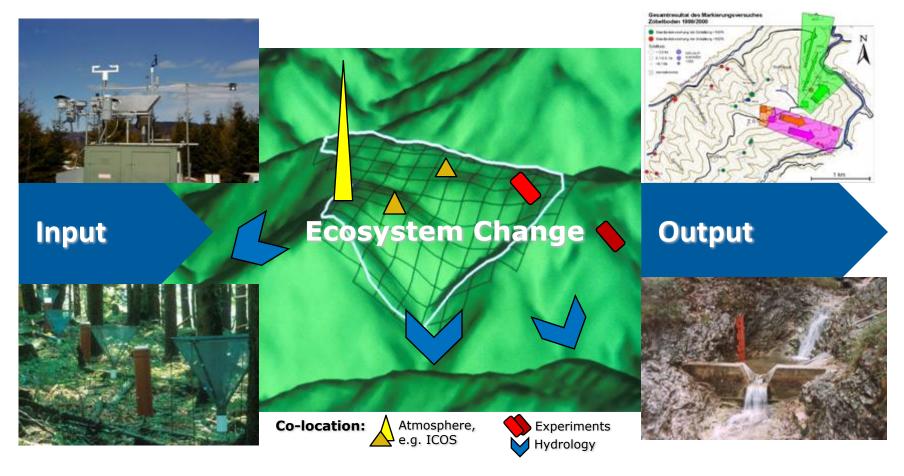
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...on behalf of the eLTER ESFRI core team and LTER communities



Example for eLTER Site design, activities and co-location



LTER Research responding to Grand Challenges

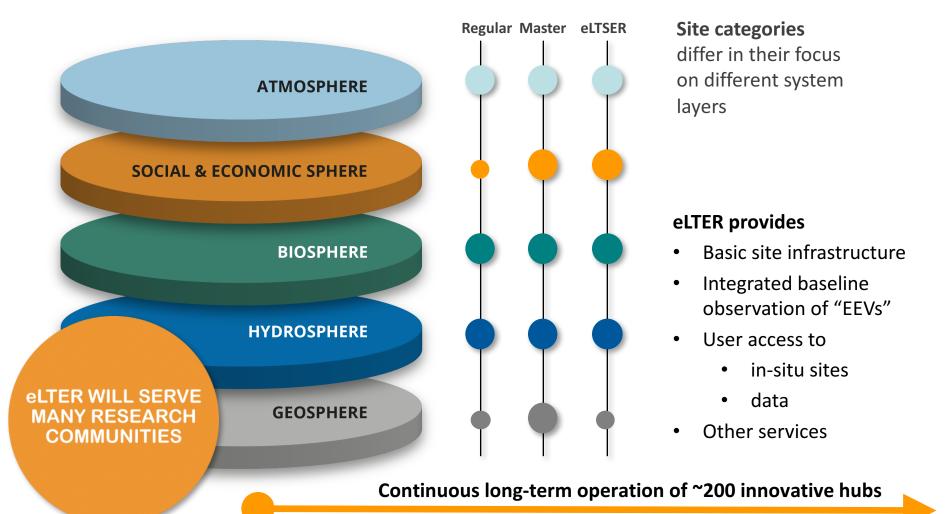
- Climate change
- Biodiversity and land use
- Biogeochemistry and pollution
- Sustainable socio-ecological systems (LTSER)

Observed and investigated:

- System structure & functions
- Main drivers
- Disturbance effects (slow presses, fast pulses extreme events)

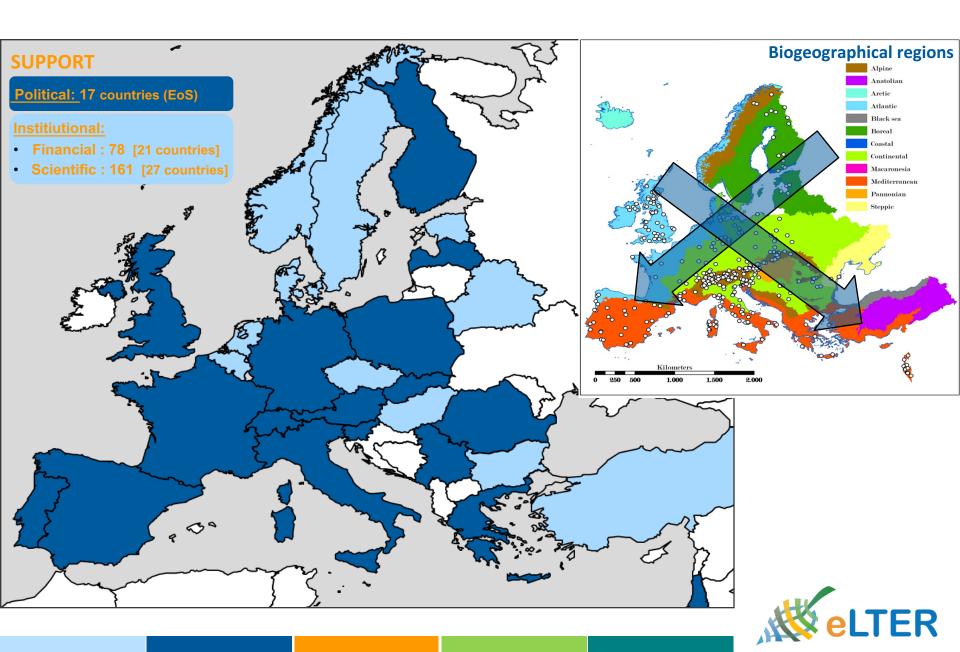


"Whole System"-Approach & cross-disciplinarity for the Live Supporting System

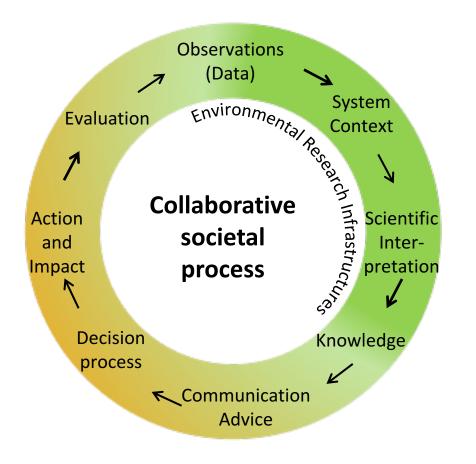




Stakeholder support, coverage and representativity



Societal and economic impact as a collaborative process



Data requirements (GC, SDG)

Raw data

Continuous refinement

Information from other RIs

High level data products

Tailor-made information

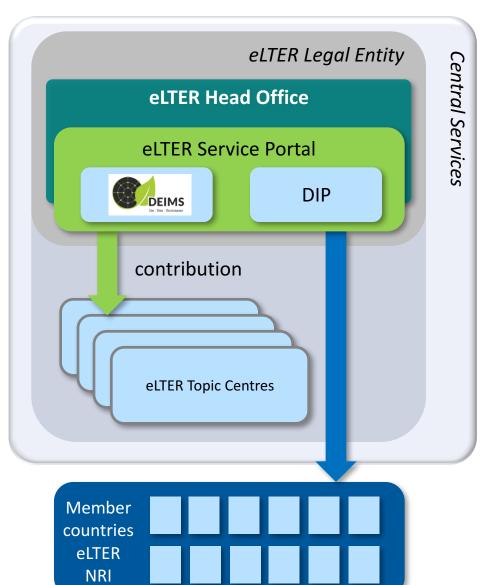
EU policy implementation

Exemplary frameworks for environmental policies, e.g.:

- Strategy on adaptation to
 Habitats Directive **Climate Change**
- Biodiversity Strategy
- Water Framework Directive
- Soils thematic strategy
- NEC directive



eLTER RI organizational structure



Topic Centers

- Quality Assurance for Data
- Modelling and Analysis Tools
- Design Interoperability and Synthesis
- Technological Innovation and Development





Contributions to SDGs



Addressing the Grand Challenges requires long-term observation, basic & applied research, and transdisciplinary approaches



- Align investments for ecosystem research in ERA and globally
- Closely collaborate with related RIs
- Ensure **scientific excellence** in European ecosystem research
- Facilitate evidence-based policy-making
- Enhance the sustainability of ecosystem services

