

OSCARS

Open Science Clusters' Action
for Research & Society

Funded Project

PREDICT - Platform for REsilient Data Integration and Coordinated Forecasting Tools

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Implemented by

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Europe has the data — but not the integrated forecasting infrastructure to turn it into actionable predictions

- Biodiversity science is mostly about monitoring, retrospective analyses, and scenario testing
 - We don't have tools to help *anticipate* change
 - Ecological predictions are:
 - Fragmented and non-standardised
 - Not interoperable across research infrastructures
 - Rarely embedded in **policy and management decision contexts**
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Build an open, modular, FAIR-compliant forecasting cyberinfrastructure within LifeWatch ERIC

- Integrate diverse European biodiversity data (eLTER, national park monitoring, GBIF)
 - Develop iterative near-term forecasting workflows
 - Apply them to four domains (biodiversity change; phenology shifts; carbon fluxes; lakes & reservoirs biophysical dynamics)
 - Co-design outputs with managers & policymakers to ensure usability (link to SSHOC)
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Dashboards of scientifically robust and easily applicable workflows

- Scientific results:

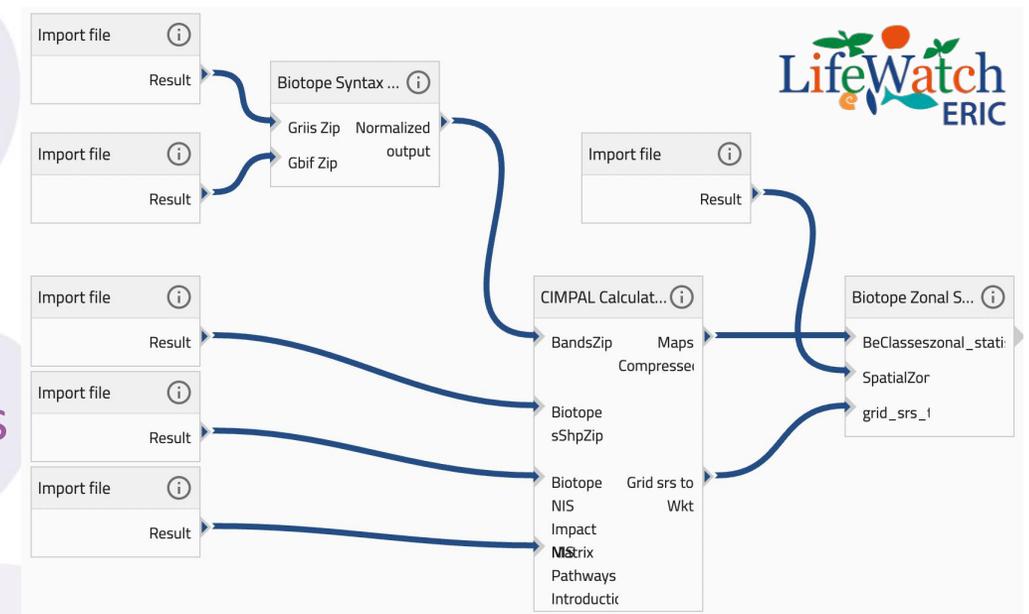
- Forecast-ready reusable pipelines
- Forecast evaluation toolkit

- Practical results:

- Open web-based forecast dashboards
- Policy-relevant forecast products

- Shared through:

- LifeWatch virtual environment (hosting) with integration in EOSC Exchange
- Open repositories (code, data, models) and publications
- Training workshop & tutorials for researchers and managers



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