PREDICT – Platform for REsilient Data Integration and Coordinated Forecasting Tools

OSCARS
Open Science Clusters' Action for Research & Society

The PREDICT project will develop an open, interoperable, and scalable cyberinfrastructure for ecological forecasting, building on the capabilities of LifeWatch ERIC. It will integrate ecological data from diverse monitoring networks into modular forecasting workflows, openly accessible to researchers and decision-makers, to provide dynamic, near-term predictions of ecological states and processes under varying climate, land-use, and socio-economic scenarios.

ENVRI
Environmental Sciences

SSHOC
Social Sciences and Humanities

Challenge

Despite the wealth of environmental data, progress in forecasting natural systems to inform decision-making is limited Most RIs prioritise data collection rather than actionable forecasting, and valuable local datasets are not well integrated with larger systems. Moreover, forecasts are undeutilised in poicy and management.

Solution

PREDICT will generate forecasts that contribute to a synthetic understanding of patterns of predictability in ecology. The project will harness the capabilities of LifeWatch ERIC and integrate multiple open ecological datasets from diverse monitoring schemes into modular forecasting workflows.

Scientific Impact

PREDICT will advance the predictive capacity of European environmental sciences by generating forecasts that contribute to a synthetic understanding of patterns of predictability in ecology, to accelerate learning and enable proactive environmental decision-making.

Partners

Agencia Estatal Consejo Superior de Investigaciones Científicas, University of Zurich, Eidgenössische Technische Hochschule Zürichh, University of Edinburgh, University of Sheffield, Utrecht University, Aarhus University, University of Southern Denmark, Ecological Forecasting Initiative

https://oscars-project.eu/projects/predict-platform-resilient-data-integration-and-coordinated-forecasting-tools