RSOTC
The Regional State of the Climate dashboard

OSCARS
Open Science Clusters' Action
for Research & Society

The RSOTC project aims to create a web-based dashboard providing near-real-time climate data (maps and diagrams) for European political regions (e.g., NUTS divisions), showing the evolution of climate indicators as those used in the "State of the climate" (SofC) reports. It will enable users to visualise climate trends applying FAIR principles to ensure open access, reproducibility, and transparency.

ENVRI
Environmental Sciences

Challenge

State of the Climate (SofC) reports (e.g., WMO, C3S, AEMET, NOAA, CSIRO) often lack regional detail (such as time series and histograms) and do not typically follow FAIR principles. Additionally, current reports tend to omit statistical insights, which limits the understanding of long-term climate patterns vs. short-term variability.

Solution

The project will provide a FAIR-by-design service that offers visual and statistical insights into climate trends at regional levels. The RSOTC dashboard will allow users to explore regional climate data with unprecedented detail. All the assets used to build the whole workflow will undergo the FAIR principles

Scientific Impact

By providing tools for statistical testing and trend identification, the project will allow users to explore climate data with unprecedented detail, as well as identify new trends on the extremes and other important statistics, but also other important features of the data that may have been overlooked by previous analysis.

Partners

Predictia Intelligent Data Solutions SL and Consejo Superior de Investigaciones Científicas

https://bit.ly/OSCARS-fundedproject-RSOTC