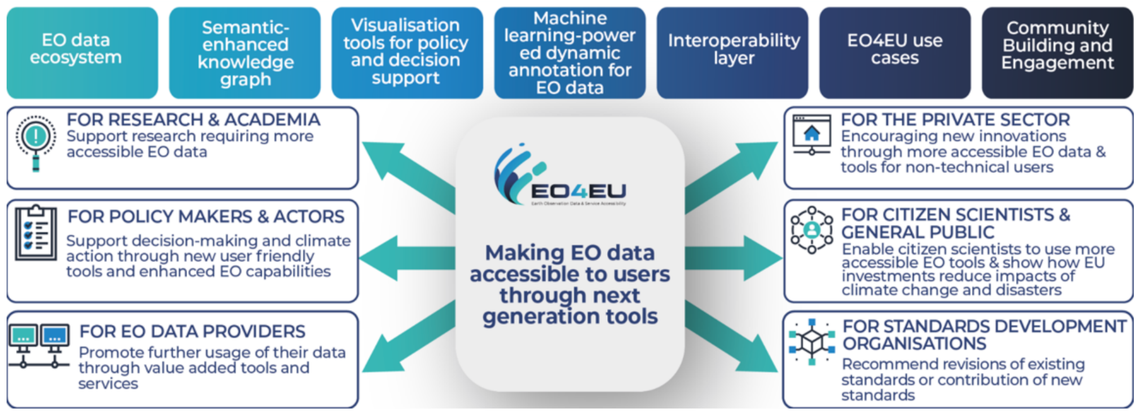
Unlock the Potential of Earth Observation Data With EO4EU

About EO4EU

The project, *"AI-augmented ecosystem for Earth Observation (EO) data accessibility with Extended reality User Interfaces for Service and data exploitation",* or *EO4EU* is a European Commission funded innovation project bringing forward the EO4EU Platform which will make access and use of EO data easier for environmental, government, and even business forecasts and operations.

The EO4EU Platform, which available at www.eo4eu.eu, connect already existing major EO data sources such as DestinE, GEOSS, INSPIRE, Copernicus, Galileo, among others and offer several tools and services to help users find and access the data they are interested in, as well as to analyse and visualise this data. The platform leverage machine learning to support handling of the characteristically-large volume of EO data as well as a combination of Cloud computing infrastructure and pre-exascale high-performance computing to manage processing workloads. Specific attention is also given to developing user-friendly interfaces for EO4EU allowing users to intuitively use EO data freely and easily, even with the use of extended reality. EO4EU platform is waiting for you - www.eo4eu.eu/platform.

Value proposition to EO4EU target groups



Hear and learn about EO4EU directly from the people behind it. Watch minidocumentary: https://www.eo4eu.eu/watch.

EO4EU partners: National and Kapodistrian University of Athens, ECMWF, Novelcore, CINECA, Vilnius University, University of Latvia, Finnish Meteorological Institute, Centro Euro-Mediterraneo sui Cambiamenti Climatici, SISTEMA, Danaos, Webgenesys, COMMpla, Hes·so, Kentro Meleton Asfaleias, eBOS, Trust-IT, Engineering, IES Solutions, MEEO, Fraunhofer IVI.

7 pilot use cases covering different thematic areas demonstrate operational and technical capacity of the EO4EU Platform:

- ✓ EO for Personalized Health care Services - PASYFO
- ✓ Food Security
- ✓ Environmental Pests
- ✓ Soil erosion
- ✓ Forest ecosystems
- ✓ Ocean monitoring
- ✓ Improving Civil Protection activities using EO acquired datasets

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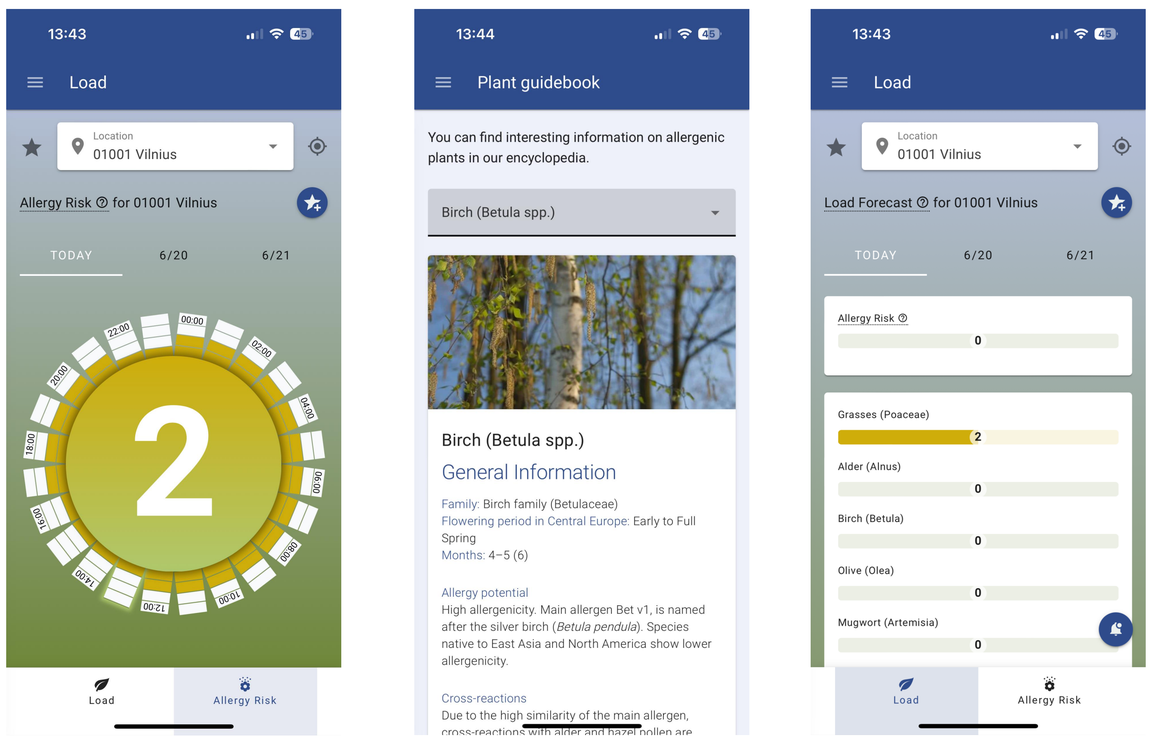
Use Case. EO for Personalized Health care Services

This EO4EU Use Case focuses on further expanding the capacity of the PASYFO model. PASYFO is the first-ever operational Personal Allergy Symptom Forecasting System that includes a mobile application. The symptom forecasting model utilises a multitude of data sources, including spatiotemporal information. The interfaces with data sources such as CAMS, SILAM, and EO are envisaged to be updated, helping the upscaling of the model's capabilities. Involved modules dealing with spatiotemporal data, such as the monitoring of atmospheric composition, can greatly benefit for the expressive feature space provided by the self-supervised upstream task. The performance of the detection of patterns that can be identified in a supervised way will be enhanced, and models will be facilitated to improve their tradeoff between volume of annotated data required and performance. Moreover, the model's performance in new areas of the globe would be facilitated by a robust and generic representation provided by the self-supervised approach. Find out more at pasyfo.eu.



The PASYFO model is extended Europe-wide. Find PASYFO in app stores.

Contact us if you are interested in

EO4EU platform

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