Partners
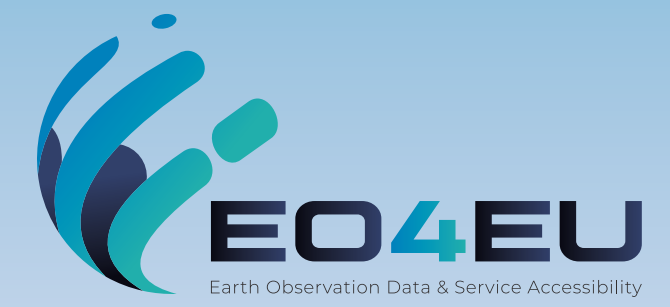

EO4EU
Earth Observation Data & Service Accessibility

EO4EU mission is to contribute to the creation of an extensive collaboration hub by creating synergies with R&I funded projects and the community of EO data that includes EO data providers, the EOSC ecosystem, the Destination Earth initiative, multipliers, third-party organizations and environmental bodies and initiatives.

Learn more about EO4EU on the website!
eo4eu.eu

EO4EU
Earth Observation Data & Service Accessibility

Making Earth Observation data more accessible through **next generation tools**

The EO4EU platform makes Earth Observation (EO) data more accessible than ever by providing an AI-augmented ecosystem with improved user interfaces for EO service and data powered by extended reality.

Despite the significant volume of Earth Observation (EO) data offered from current EU repositories, their access has not been yet extended beyond experts and scientists. Expanding the access to high value EO data to the wider industry is key to protecting our planet and improving EU citizens' lives.

Current challenges for exploiting EO data:

Diverse sources of information

Difficulty to find and retrieve relevant data

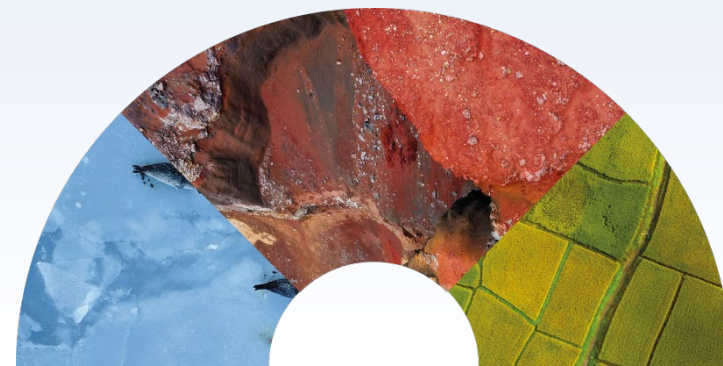**Lack of tools to download and process EO data**

Data fragmentation

EO4EU aims to provide innovative tools, methodologies and approaches that would assist a wide spectrum of users, from domain experts and professionals to simple citizens, to benefit from EO data.

EO4EU supports the wider exploitation of EO data by delivering:

**CURRENT STATUS
Under Development**

EO Data Ecosystem
A common EU data fetching mechanism for consolidating initiatives and data pools, such as DestinE, GEOSS, INSPIRE, Copernicus, Galileo, ECMWF.

Dynamic Semantic Annotation & Learned Compression
EO4EU relies on the latest advances in self-supervised and unsupervised learning methods to leverage the vast volumes of EO data.

Semantic Enhanced Knowledge Graphs
EO4EU leverages a data mapping approach towards achieving efficient data representation through a semantically-rich Knowledge Graph.

Data Fusion Techniques
As the system will incorporate multiple and diverse data sources, the fusion mechanism and models will harmonize the data streams and combine the acquired data into single and enhanced structures towards an increased accuracy.

Augmented/Extended Reality
EO4EU will feature an extended reality (XR) interface to further boost the adoption of the platform & offered data.

Data Analytics Visualisations
The EO4EU platform will leverage a wide variety of new dimensionality reduction and visualization methods to enable evidence-based interpretation of environmental observation and improved learning.

EO4EU strives to deliver dynamic data mapping & labelling based on AI adding FAIRness to the system & data

Join the EO4EU community to get access to:

- Early adopter opportunities
- Unique use cases
- Tools available for use

Subscribe to our Newsletter
eo4eu.eu/newsletter

Who benefits from the EO4EU platform?

Researchers and Academia
Supports research institutions with more accessible EO data

EO data providers
Promotes further usage of EO data through value added tools

Private sector
Encourages innovation through more accessible EO data for non-technical users

Citizens and scientists
Enables new actions to reduce and monitor the impact of climate change

Standards Development Organisations
Contributes to the revision of standards related to EO data

Policy-Makers
Supports evidence-based policy-making and climate action