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AI-augmented ecosystem for Earth Observation data accessibility with Extended reality User Interfaces for Service and data exploitation: use case

The project “AI-augmented ecosystem for Earth Observation data accessibility with Extended reality User Interfaces for Service and data exploitation” EO4EU, funded by the European Commission, aims to make Earth Observation (EO) data more accessible and useful for everyone. The project is building a platform that uses Artificial Intelligence (AI) and Extended Reality (XR) technologies to make it easier for people to access, understand, and use EO data for various purposes, such as environmental monitoring, government planning, and business operations. The platform will connect several major EO data sources, including DestinE, GEOSS, Copernicus, and Galileo, and provide tools for users to easily search, analyze, and visualize the data they need. The project brings together 16 partners from 11 European countries. By using advanced technologies like machine learning, cloud computing, and high-performance computing, the platform will be able to handle large amounts of EO data and process complex tasks.

A key goal of EO4EU is to create simple, easy-to-use interfaces that allow anyone, even those with little experience, to work with EO data. This includes using XR technologies to improve how users interact with and visualize the data. The project supports the European Commission’s mission to promote services that are ready for real-world use and encourage cooperation across different sectors.

EO4EU shows how the platform works through seven pilot use cases in areas like civil protection, environmental monitoring, soil erosion, forest ecosystems, food security, ocean monitoring, and personalized healthcare. Some examples include using EO data to improve emergency response, predict locust plagues, help farmers adapt to climate change, and provide allergy forecasts through a system called PASYFO.

The EO4EU platform give users access to powerful tools and data to improve decision-making, operations, and responses in many fields. It aims to make it easier for people across Europe to benefit from EO data, ultimately shaping the future of data-driven services.

You can explore the EO4EU platform at www.eo4eu.eu to find helpful tools and insights.

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Please, submit you abstract

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