

## **HOMEROS - Harmonising Observations from Multi-hazard Environments in Research for Open Science**

*Expectations and first examples from the EOSC EU Node services for Researchers*

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The HOMEROS project focuses on enhancing multi-hazard assessments, particularly for earthquakes, floods, and landslides in high-risk areas in Greece. It aims to harmonize and standardize observational data across seismology, geodesy, and geology using Open Science frameworks. By integrating pan-European and local resources, HOMEROS supports robust hazard assessments, fosters interdisciplinary collaboration, and emphasizes accessible data sharing to improve disaster preparedness and resilience.

The poster presented at the LU Open Science Days 2024 will showcase preliminary results from tests on the (recently launched) EOSC EU Node, focusing on tools and services that facilitate data interoperability, visualization, and analytical capabilities tailored to researchers' needs. These early examples, resulting from collaboration among Lund University, Aristotle University of Thessaloniki and National Kapodistrian University of Athens, underscore the EOSC potential to streamline data sharing across disciplines, offering virtual environments that address challenges in data access and integration. Future steps will involve expanding these services to further support cross-disciplinary collaboration and enhance Europe's Open Science infrastructure.