PRESS RELEASE

Launch of Climate-Adapt4EOSC: 4 year EU-funded project to drive Open Science and Data Innovation for Greater Climate Resilience

4-5 February 2025, Athens | Kick-off meeting of the Climate-Adapt4EOSC project marks its formal integration into the expanding European Open Science Cloud (EOSC) ecosystem. The project brings together 18 partner organisations from 9 countries with the aim of advancing open science and data-driven innovation to strengthen climate resilience and climate adaptation efforts. Over the next four years, Climate-Adapt4EOSC will develop a suite of fully interoperable solutions, FAIR (Findable, Accessible, Interoperable, and Reusable) data resources, and innovative climate services, providing researchers, policymakers, and stakeholders with advanced tools for data retrieval, processing, and analysis.

This project has received funding from the European Union's Horizon Europe programme under grant agreement 101188248

CONTEXT

Adaptation to climate change has become a central focus for researchers across various fields, including climate science, environmental science, urban planning, information science and social science, to support policy makers in making informed decisions to build a climate-prepared and resilient society. The major challenges in achieving this goal are:

I. Lack of seamless interaction between platforms, data spaces, and users
II. Poor data interoperability as well as service interoperability in climate adaptation domain
III. Lack of infrastructural support for generating FAIR (Findable, Accessible, Interoperable, Reusable) data
IV. Legal barriers hindering access to data

Climate-Adapt4EOSC aims to address these challenges by creating an **EOSC-centred collaborative research environment** that integrates existing EOSC data and services while expanding them with new capabilities. These enhancements include **interoperability, FAIRification, Open Data publication of research results, data adaptation, format compliance, mapping, and entity matching**, enabling seamless data interaction and the development of advanced services such as **Big Data analytics for climate risk assessments**.

A key innovation of the project is the development of a **climate change adaptation ontology** and an **EOSC Climate-Adapt Knowledge Graph**, designed to enhance **findability, accessibility, tracking, and life cycle management** of diverse research outputs, including **datasets, scientific publications, methodologies, code, software packages, and analytical tools**.

Additionally, Climate-Adapt4EOSC is introducing **four innovative services** - OPENHIDRA, Shrink-Swell from Space 2 Earth (3SES), Digital Twins for Just Climate Urban Resilience (Just CURS), and Big Data Analytics (BD Analytics) that will support the **EU Mission on Climate Change Adaptation** and the **European Green Deal**. These services are designed to be **demonstrated across five EU countries**, ensuring practical implementation and impact in real-world climate adaptation efforts.

CONSORTIUM MEMBERS

National Centre for Scientific Research “Demokritos” (GR), G.A.C. Group (FR), Artelia (FR), Laboratório Nacional de Engenharia Civil (PT), Associação CNCA (PT), Technovative Solutions (UK), University of Cambridge (UK), The University of Manchester (UK), CODATA (FR), National Observatory of Athens (GR), Dimos Egaleo (GR), Administração do Porto de Aveiro, SA (PT), Centre Scientifique et Technique du Bâtiment (FR), Data4 (PL), Novitopia

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Bilgi Teknolojileri (TR), Bureau des Recherches Géologiquestma et Miniers (FR), SIKT (NO), IANUS Technologies (CY).

GENERAL INFORMATION

Duration: 48 Months, January 2025 - December 2028
EU Funding: €7.9M (HORIZON-INFRA-2024-EOSC-01 101188248)
Coordinator: National Centre for Scientific Research Demokritos
Website: www.climate-adapt4eosc.eu (website under development)
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