

Core Components Supporting a FAIR EOSC



Developing a set of **EOSC-Core** components necessary to enable a **FAIR EOSC** ecosystem

The FAIRCORE4EOSC project focuses on the development and realisation of core components for the European Open Science Cloud (EOSC). Supporting a FAIR EOSC and addressing gaps identified in the Strategic Research and Innovation Agenda (SRIA). Leveraging existing technologies and services, the project will develop nine new EOSC-Core components aimed to improve the discoverability and interoperability of an increased amount of research outputs.



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Components

FAIRCORE4EOSC will develop a set of nine EOSC-Core components necessary to enable a FAIR EOSC ecosystem. Leveraging the solutions developed in previous projects and closely collaborating with the EOSC Future project and the new Horizon Europe projects. FAIRCORE4EOSC will support the EOSC Partnership by increasing FAIRness within the Minimal Viable EOSC as described in the SRIA.



RDGraph
EOSC Research
Discovery Graph



PIDGraph
EOSC PID
Graph



MSCR
EOSC Metadata Schema
& Crosswalk Registry



DTR
EOSC Data
Type Registry



PIDMR
EOSC PID
Meta Resolver



CAT
EOSC Compliance
Assessment Toolkit



RAiD
EOSC Research Activity
Identifier Service



RSAC
EOSC Research Software
APIs & Connectors



SWHM
EOSC Software
Heritage Mirror

FAIRCORE4EOSC

Case Studies

Five user-centric case studies will drive the development and testing of the new components ensuring they are co-designed and tailored to the user needs.

Climate Change



ENES supports climate modellers in their work, in particular in the area of data management. In this case study we demonstrate how the developed EOSC-Core components can improve the discoverability and re-use of research results from the ENES community.

Adopted components



DTR



MSCR



PIDGraph



RAiD



RDGraph

EOSC Service Providers



The case study aims to meet domain-specific requirements of research communities for common data services that improve discovery, access and reusability of research data. Leveraging the EUDAT services, the case study will act as a rule model for other service providers to increase the adoption of the developed components.

Adopted components



CAT



DTR



MSCR



PIDGraph



RAiD



RDGraph

European
Integration of
National-level
Services



OpenAIRE

The case study will showcase how the developed components can enrich the content of the national research information systems displaying international connections to research objects and improve their interoperability.

Adopted components



DTR



MSCR



PIDGraph



RAiD



RDGraph



RSAC



SWHM

Mathematics



Leibniz Institute for Information Infrastructure

zbMATH Open & swMATH projects aggregate significant scientific advances in mathematics and related disciplines supporting researchers in finding relevant publications and data. The case study will increase the discoverability of the zbMATH Open and swMATH data and services in the mathematical and EOSC community.

Adopted components



MSCR



PIDGraph



PIDMR



RDGraph



RSAC

Social Sciences
and Humanities



Common Language Resources and Technology Infrastructure

This case-study will focus on improving the discoverability of CLARIN data through the integration of the Digital Object Gateway (DOG), a crucial component for the interoperability of the CLARIN infrastructure, Language Resource Switchboard and Virtual Collection Registry tools.

Adopted components



DTR



MSCR



PIDGraph



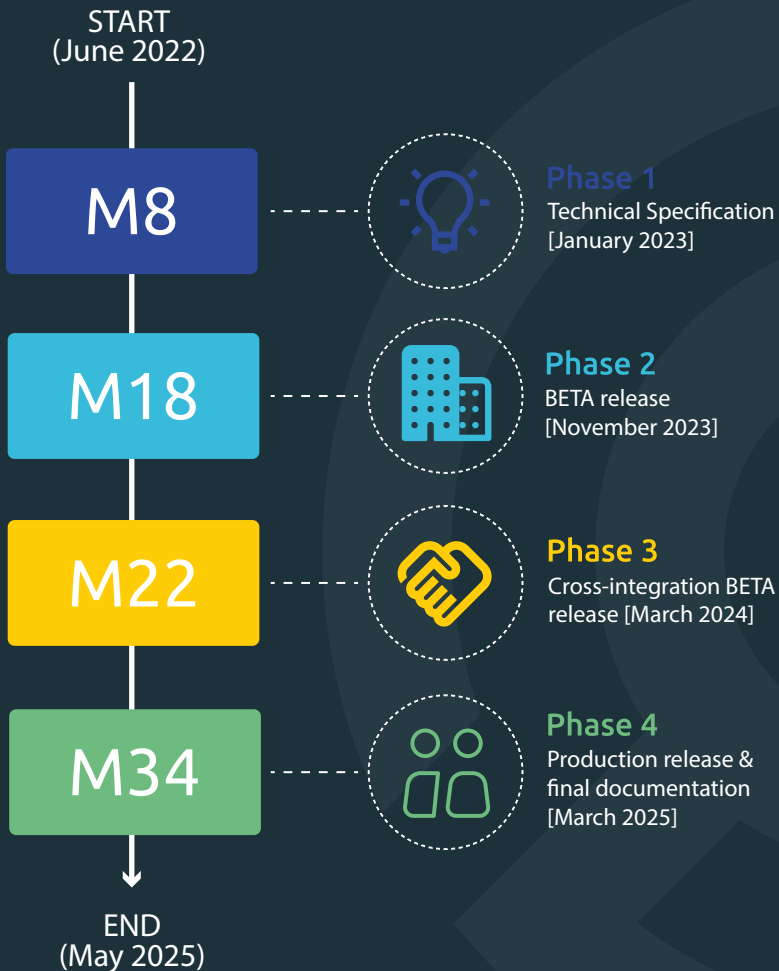
PIDMR



RDGraph

FAIRCORE4EOSC Implementation Methodology

The development of the new FAIRCORE4EOSC components follows four implementation phases.



FAIRCORE4EOSC Consortium



Your opinion counts

Contribute to the FAIRCORE4EOSC Open Consultations

Our website will host Open Consultations with the wider EOSC community through questionnaires, which also support requirements gathering and validation activities.



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