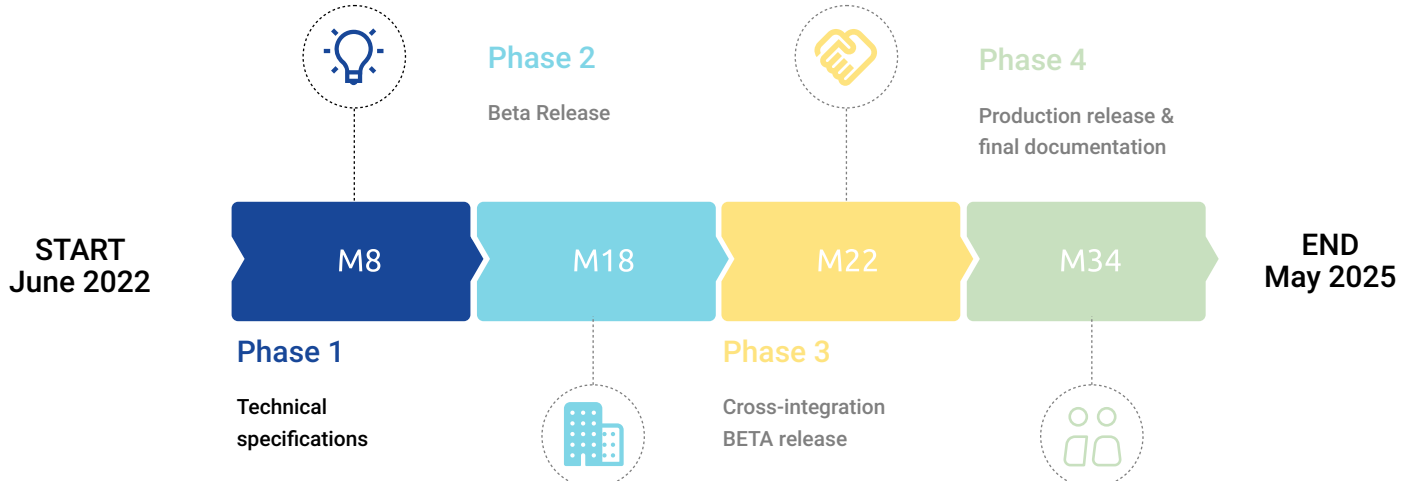
FAIRCORE4EOSC

Core Components Supporting a FAIR EOSC

Briefing #5

Top 3 project achievements

1. Over the summer, the consortium compiled the first periodic report to the funder. Documenting all the work carried out and the costs claimed during the first project year has been an important collective effort.
2. FAIRCORE4EOSC is planning a joint project meeting with FAIR-IMPACT to present the implementations of the new EOSC Core components that will be available in November 2023 (BETA release) and plan engagement with external communities and among other topics.
3. In the General Assembly held in June 2023, the consortium approved the addition of a Vocabulary Hosting Service to the project outputs (for WP2).



Technical updates

During the summer break, many of our colleagues enjoyed their well-deserved holiday after a busy year working in FAIRCORE4EOSC. At the same time, much effort went into reporting about the first year activities and in further analyzing the user requirements and the developments.

→ The development teams are working towards the beta release milestone which is planned in November 2023 (M18).

→ The development team working on the Compliance Assessment Toolkit (CAT) released the first version of the service (https://cat.argo.grnet.gr/) and work has started on the search and discovery interface.

→ The team developing the PID Graph completed the first 2 features on the PID Graph harvesting service.

→ The Data Type Registry (DTR) team continued the development of the templates to create types and the Metadata Schema and Crosswalk Registry (MSCR) continued work on the User Interface, completed the first version on content versioning and setup a test instance.

→ The RAiD development team decided to assign DOI's for RAiD records and setup a demo instance (https://app.demo.raid.org.au/) for people to try.

→ The PID Meta Resolver (PIDMR) team made further improvements on the UI, backend and on the Handle service and included more PID services.

→ After the initial investigations, the development teams working on the Research Software APIs and Connectors (RSAC) started initial work connect the repositories to Software Heritage (SWH).

→ The team working on the SWH Mirror has setup a staging instance ready for testing and is working through the contractual details for running the SWH mirror.

In the next months the focus will be on the Beta release of the FAIRCORE4EOSC components.

Case Study Progress

Since the Kajaani technical meeting, there has been good progress in the Case Studies work, as detailed below.

The **Maths** case study (CS) team has deployed much effort in coordinating with WP6, as RSAC will be at the core of the CS. Most of the work focused around archiving and indexing mathematical software source code in Software Heritage and depositing their metadata. Work around mapping swMATH metadata vocabulary with the one from CodeMeta and DataCite is ongoing and will be implemented in the MSCR component. The CS team also identified specific needs regarding the DTR and PIDGraph components.

As a follow up to the interactions with the core component teams over the course of June 2023, the **Social Sciences and Humanities** CS team has started to make more detailed development roadmaps for the Digital Object Gateway, Switchboard and Virtual Collection Registry components. These roadmaps are managed internally but they are working on documenting these as publicly accessible milestones and issues in their respective GitHub repositories. In addition to this work they participated in the WP4 meetings on semantic data types, relevant for the Switchboard and Virtual Collection Registry.

Based on ongoing discussions with the component developers, the **Climate Change** CS was refined and reworked to ensure feasibility of implementation. Additionally the components already existing were explored and a roadmap for an integrated prototype implementation was developed. Main focus of the prototype is to demonstrate the advantages of exploiting FAIRCORE4EOSC services as part of current climate service infrastructure developments.

The European Integration of **National-level services** CS was presented at the euroCRIS Membership Meeting (Brussels, May 30-June 1) to reach out to the many stakeholders in the CRIS-domain (see presentation). The CS team also started working on the national service data models, i.e. go-through of different models (CERIF, Research.fi) and this included e.g. translation of Research.fi data model (Meeting in June). The CS team also engaged with the MSCR development team to discuss the needs of the CS and possible features of MSCR.