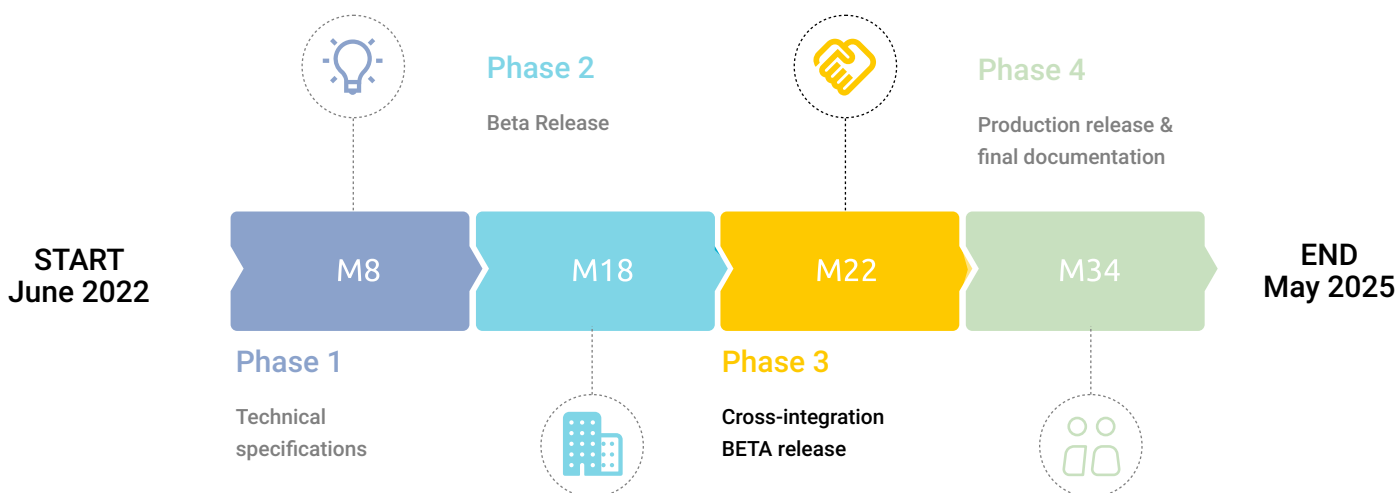


## Briefing #7

### Top project achievements

1. The number one highlight is of course the fact that after the Beta releases of the FAIRCORE4EOSC core components, our case studies have finally been able to begin trying out the present functionalities of the components. This has been a long time coming, from setting requirements for the components at Month 8 of the project, to waiting that the first iteration of implementation is completed at month 18. Naturally, not all the functionalities required by the case study will be available in these initial releases, but this is when the case studies can start feeding back to the component development and start making concrete evaluations of the utility of the features being developed by the components. This work culminates at the Beta Integration Release of the components at Month 22, and the documentation of this Case Study - Component interaction and integration in the upcoming Deliverable 1.4.
2. In the beginning of the year there has been an effort to prepare presentations and conference papers show-casing the development work on the components and their piloting by the Case Studies. Presentations will take place at international events such as the FDO conference (Berlin 03/2024), euroCRIS Conference (Vienna 05/2024), EUNIS (Athens 06/2024) and PIDFest (Prague 06/2024). First discussions have also taken place between FAIR-IMPACT and FAIRCORE4EOSC on the organisation of a joint final meeting/conference in March 2025.
3. While an on-going effort, the project is taking efforts to reorient its work to the changed EOSC environment. The EOSC Future services are being shut down and handed over to DG Connect that is planning to launch a brand new EOSC EU Node in October 2024. The shutdown of the EOSC Platform may require changes to the initial work plan of FAIRCORE4EOSC and reallocation of efforts.



## Technical updates

After the Beta release milestone at the end M18 the technical teams worked on deliverable D1.3, see <https://doi.org/10.5281/zenodo.10518813>, reporting on the Beta release of the components. It provides an overview of the planned integrations with the EOSC-Core and between the components. One of the challenges in the integration with the EOSC-Core are the changes introduced by the transition to the EOSC EU Node. To discuss these challenges FAIRCORE4EOSC reached out to DG Connect, who is overseeing the implementation of the EOSC EU Node.

After the release of the beta components the development teams organized handover meetings with the case studies to present the beta components and to discuss with the case studies integration scenarios of the components. The handover meetings have been recorded and will be made available through the FAIRCORE4EOSC website.

In the week of the 29 of January representatives of FAIRCORE4EOSC attended the EOSC Winter School, see <https://eosc.eu/eosc-focus-project/winter-school-2024/>. Despite the EOSC Winter School not really being a school, it was a very good workshop at which 120 participants from the EOSC Association and the 21 EOSC-related EU projects attended. FAIRCORE4EOSC involvement was focussed on the Opportunity Areas PID, Metadata, Ontologies and Interoperability and on the session on Sustainable Exploitation Pathways. The EOSC Winter school was an opportunity for FAIRCORE4EOSC to present the components being developed and to discuss the topics in a broader context with the other HE project experts.

While the focus in this period was on the handover of the beta releases to the case studies. The development teams has been continuing and is focussing on the cross integration with the EOSC-Core and between the components. Also the project is preparing for the FAIRCORE4EOSC All Hands Meeting planned on the 23-25 of April in Athens, Greece.

## Case Study Progress

The Maths case study (CS) team has worked in its best effort to develop the necessary workflows to ingest articles and software metadata in the PIDGraph and, consequently, to the RDGraph. Coordination with the DevOps team has started to conveniently trigger the zbMATH Rest API endpoints to expose metadata in the OAI-PMH server of the MaRDI infrastructure. The developments to convert the metadata to the OAI format both for software and articles have been finalized. Currently, the team works actively to expose metadata in the Datacite format both for software and articles.

The Social Sciences and Humanities CS team has focussed their development efforts on the integration of their internal Digital Object Gateway API with the DTR and PIDMR APIs. Due to unforeseen delays, plans have been reshifted; to avoid further delays the integration of the MSCR will be implemented directly into the Virtual Collection Registry for the M22 milestone. This work will be moved into the DOG API between the M22-M34 period. The podcast interview has been recorded and edited, however due to audio quality issues, re-recording of some parts of the interview is being planned.

The Climate Change CS team has decided to focus on RAiD and DTR for the M22 prototype. Both components provide a stable and usable API. With RAiD, additional information from community projects has been interlinked - currently available as web pages, for example, but scattered around. With DTR, the team was able to show how climate variable type definitions could be used and how the profile scheme could support a machine-actionable interpretation of climate dataset collections.

The European Integration of National-level services CS is now actively piloting PIDGraph, MSCR, DTR and RAiD. The Research.fi team has been testing for the most efficient way to retrieve information from PIDGraph and gained some very positive results in terms of being able to enrich Research.fi data with the information found in PIDGraph. Some challenges were faced when testing RAiD on their legacy project data, but working in cooperation with ARDC enabled the team to solve those challenges and move forward towards implementation.

The data transfer format as xml schema to MSCR has been tested. For Publinova.nl, the team is exploring the existing metadata schemas, and how DTR and MSCR can be used to identify and document the schemas, and how they can facilitate transformations to a common (cerif-based) metadata schema. Additionally, collaboration with the RAiD team is ongoing to determine how RAiD implementation for applied science in NL can be set up.

The EOSC service providers and RDM communities CS team has progressed fairly well with component beta integration. To enable evaluation of RAiD use for scientific communities close to EUDAT, the RAiD identifier has been enabled in EUDAT B2SHARE record metadata on training instance of EUDAT B2SHARE (<https://trng-b2share.eudat.eu/>).

Exploration of PIDGraph service has already highlighted some improvement needs in metadata handling and linking at EUDAT B2SHARE. DTR and MSCR services have been identified as the most important components for managing metadata models on B2SHARE instances. Integration work on RDGraph and CAT has progressed, but due to uncertainties related to Case Study user stories, work on DTR and MSCR has been prioritised.

Finally, WP7 and the component teams have organised handover sessions in December and January for component teams to provide guidelines and demos of their component features, so that CS can start their BETA implementation in a meaningful way.