

EOSC Implementation Macro-Roadmap

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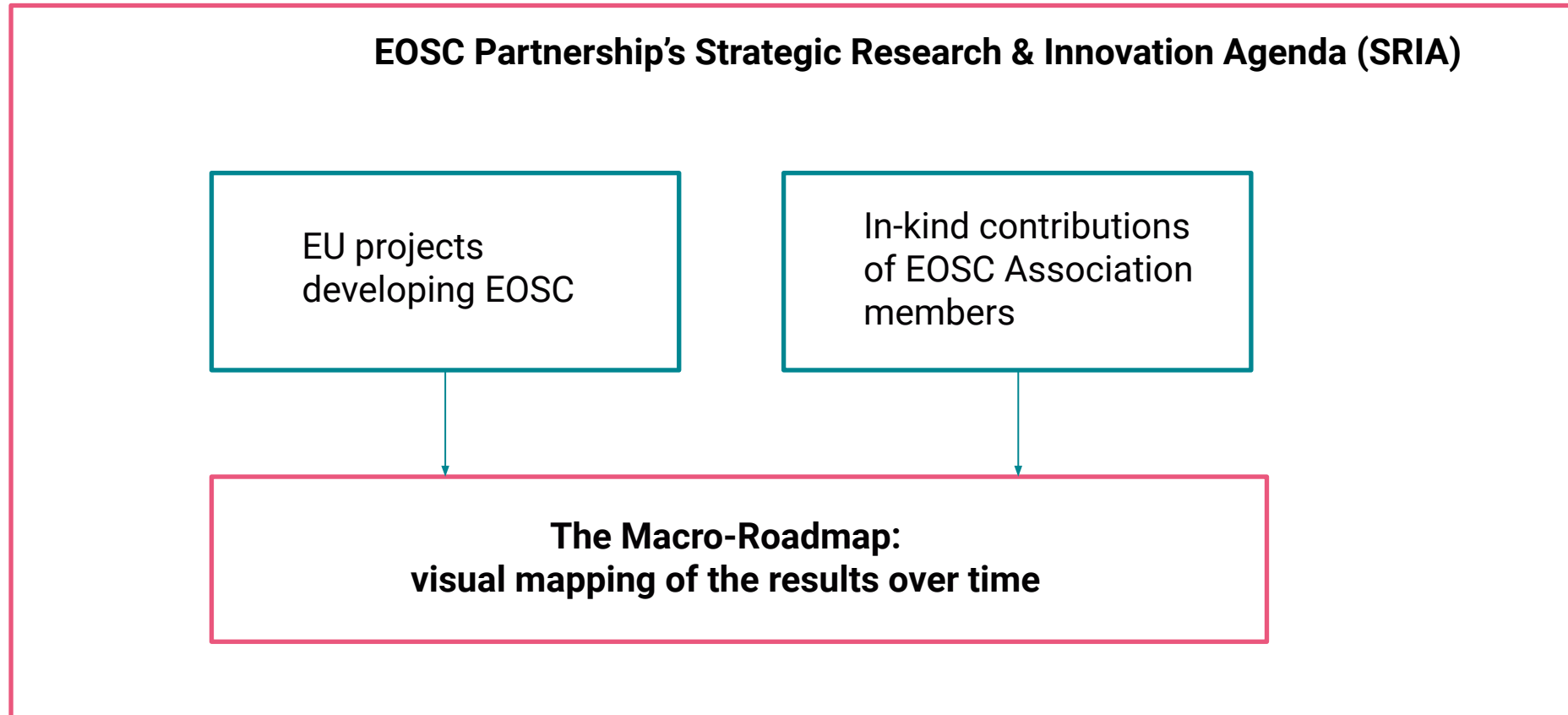
EOSC Focus



The Macro-Roadmap for the Implementation of EOSC

- A new tool to:
 - understand how EOSC-related Horizon Europe projects and EOSC-A members contribute to EOSC implementation over time
 - identify potential gaps related to EOSC implementation priorities
 - facilitate collaboration and ensure that developments among EOSC stakeholders are aligned
- A joint effort of EOSC-A, the EOSC-related Horizon Europe projects, facilitated by EOSC Focus, and the European Commission

The Macro-Roadmap for the Implementation of EOSC



The Macro-Roadmap will be further populated and continuously updated by the EOSC-A, via EOSC Focus

The Process: Working with the Projects

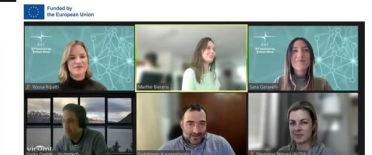
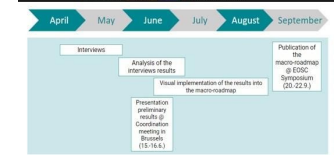
Interviews with HE EOSC-related projects

Why

- Identify synergies, technical challenges and potential gaps, relate them with the objectives of the EOSC Partnership
- Showcase the projects' contribution to the development of EOSC

How / Methodology

- Conduct semi-structured interviews with project representatives using standardized set of questions
- Map the respective project results to SRIA Action Areas
- Present a first draft of the Macro-Roadmap for discussion with the projects
- Use their feedback to validate, review and refine the results



The Process: Working with the Projects

Analysis of interview results

- Dive into the most important developments by the projects
- Capture the alignment with other projects / initiatives and implementation examples (case studies)
- Involvement of project members in EOSC-A Task Forces
- Sustainability plans and (future) obstacles

Outcome:

- Framework using predefined abstraction levels to pinpoint tangible aspects and promote synergies between projects working in related/overlapping areas
- Foster cross-project alignment on technical developments, maximizing the impact of project outputs and ensuring the long-term sustainability of EOSC



The Process: Working with EOSC-A Members

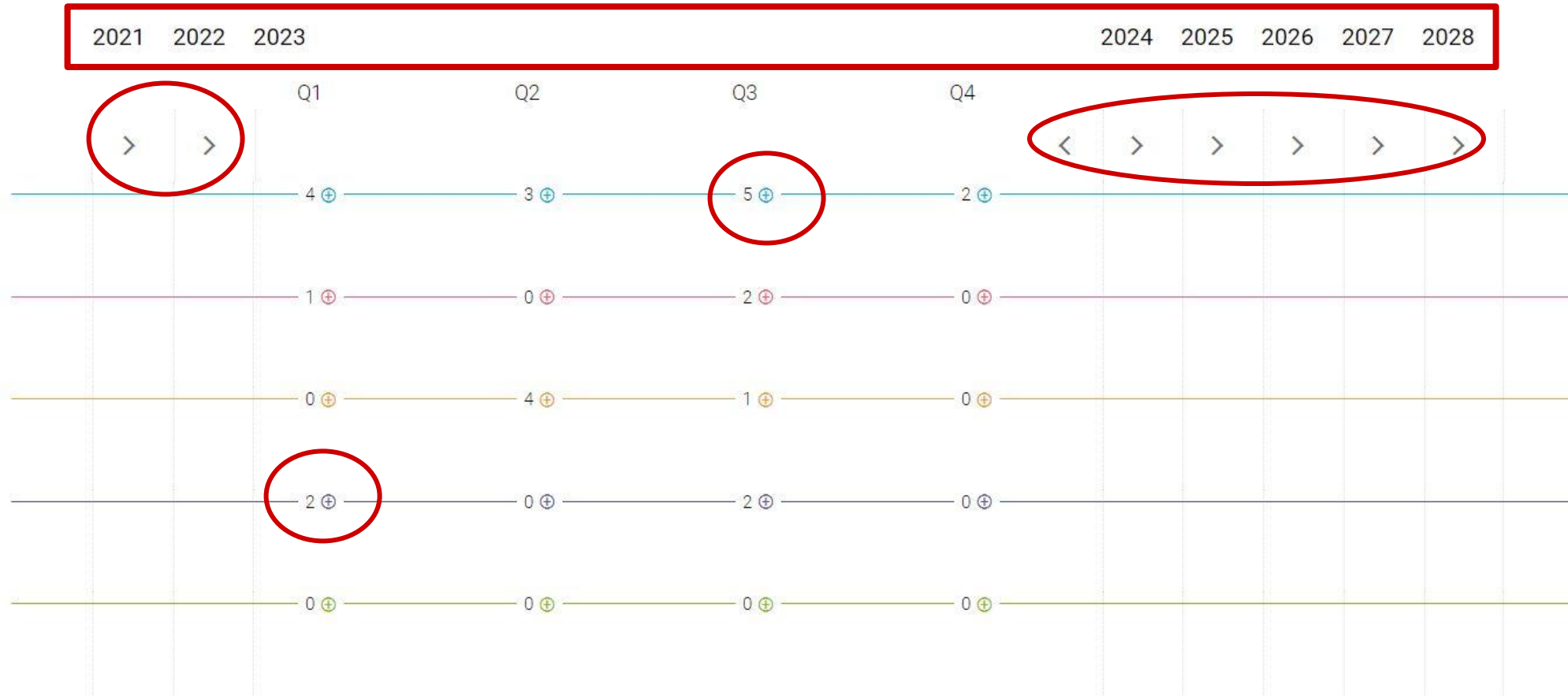
Results of the Additional Activity Plan (AAP) survey

- EOSC-A AAP survey for 2024 (until 15 September)
- Members are asked to estimate contributions to the implementation of the (SRIA) in the form of in-kind additional activities for 2024
- Extra question added for EOSC-A members to prioritize the **two most relevant AAP** they would like to see in the Macro- Roadmap
- More Additional Activities will be added to the Macro-Roadmap when additional information becomes available

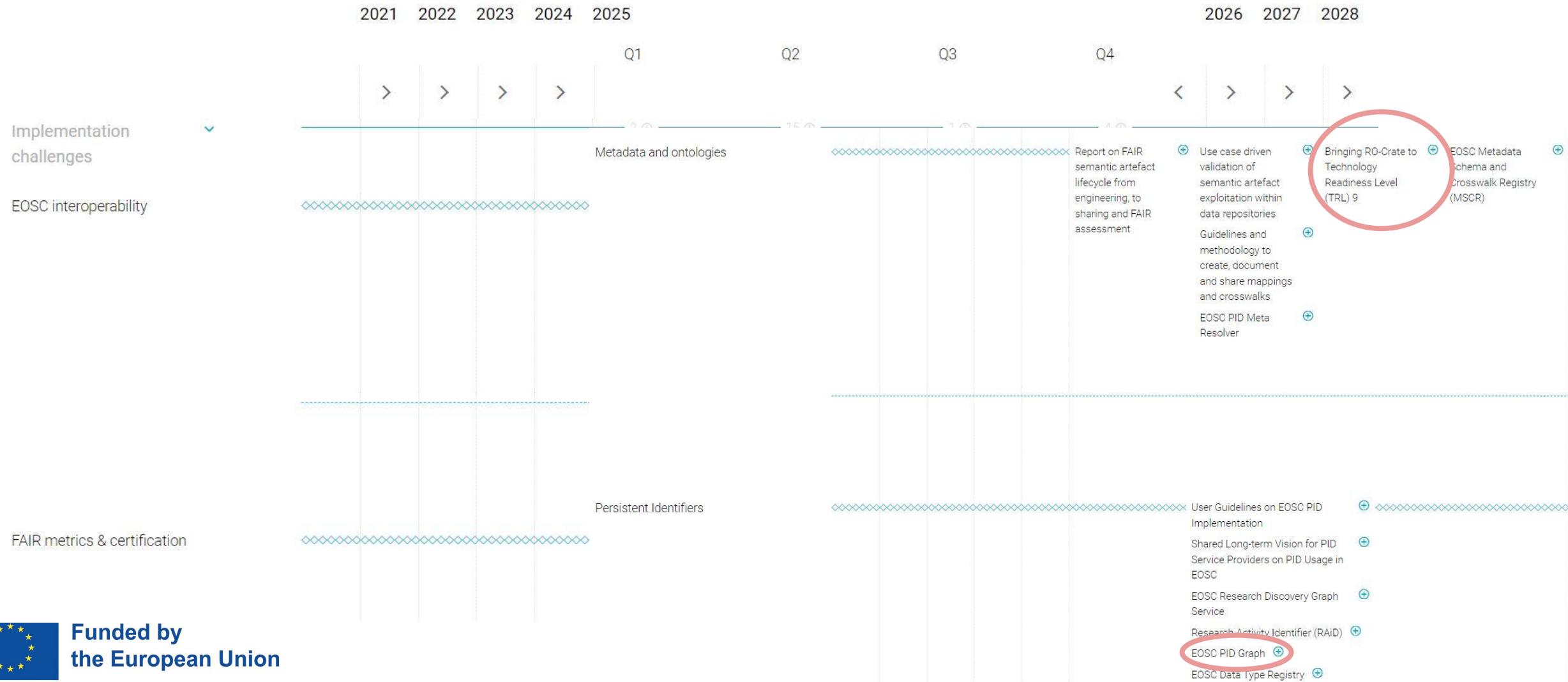
The Macro-Roadmap for the Implementation of EOOSC

Visualisation accessible via <https://eosc.eu/roadmap>

- Implementation challenges ▼
- Landscape, Monitoring and Engagement ▼
- Skills, training, rewards, recognition ▼
- Supporting grand societal challenges ▼
- Widening to public and private sectors and going global ▼



The Macro-Roadmap for the Implementation of EOSC A Preview



The Macro-Roadmap for the Implementation of EOSC A Preview

EOSC PID Graph

Enrichment of the DataCite PID graph to systematically integrate the connections between the nodes by harvesting from different/new sources, and incorporate them in AAI and data dump access.

Problem addressed

The nodes in the Persistent Identifier (PID) Graph are relatively well known, but the connections between them are not properly inventoried and systematically integrated.

Type of result:



[Link to the result](#)

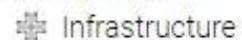
Virtual Research Environment (VRE) for marine research

The VRE is a cloud-based platform where users can seamlessly exploit computing environments, algorithms and data sources to support marine research.

Problem addressed

Providing a common environment for all researchers in marine science, the VRE enables the collaborative setup of new algorithms and the sharing, reuse, and reproducibility of marine data.

Type of result:



[Link to the result](#)

Bringing RO-Crate to Technology Readiness Level (TRL) 9

RO-Crate is a generic packaging format for datasets and their metadata description that uses standards for FAIR Linked Data (JSON-LD).

EuroScienceGateway is completing its development by connecting all elements, tying up the loose ends and making it reach TRL 9.

Problem addressed

The integration of RO-Crate into Galaxy enables institutions that use Invenio RDM or address Zenodo instances to export immediately; thus, complete analysis histories, provenance information and identifiers get published following standards. Commonly, data will be stored locally in long-term archives. Galaxy will keep track of where the data is stored as well as the metadata. Both data and metadata can be accessed through Galaxy when needed, enabling the re-import of all assets necessary for validation or re-use.

Type of result:



[Link to the result](#)

[Link to the result](#)

Macro-Roadmap Next Steps

A continuous, iterative process

- Inclusion of AAP activities
- Final release Q1 2024 - living document, more results and updates can be added on the way
- Webform for content updates
- Joint publication with the EC
- Interviews with 2023 projects