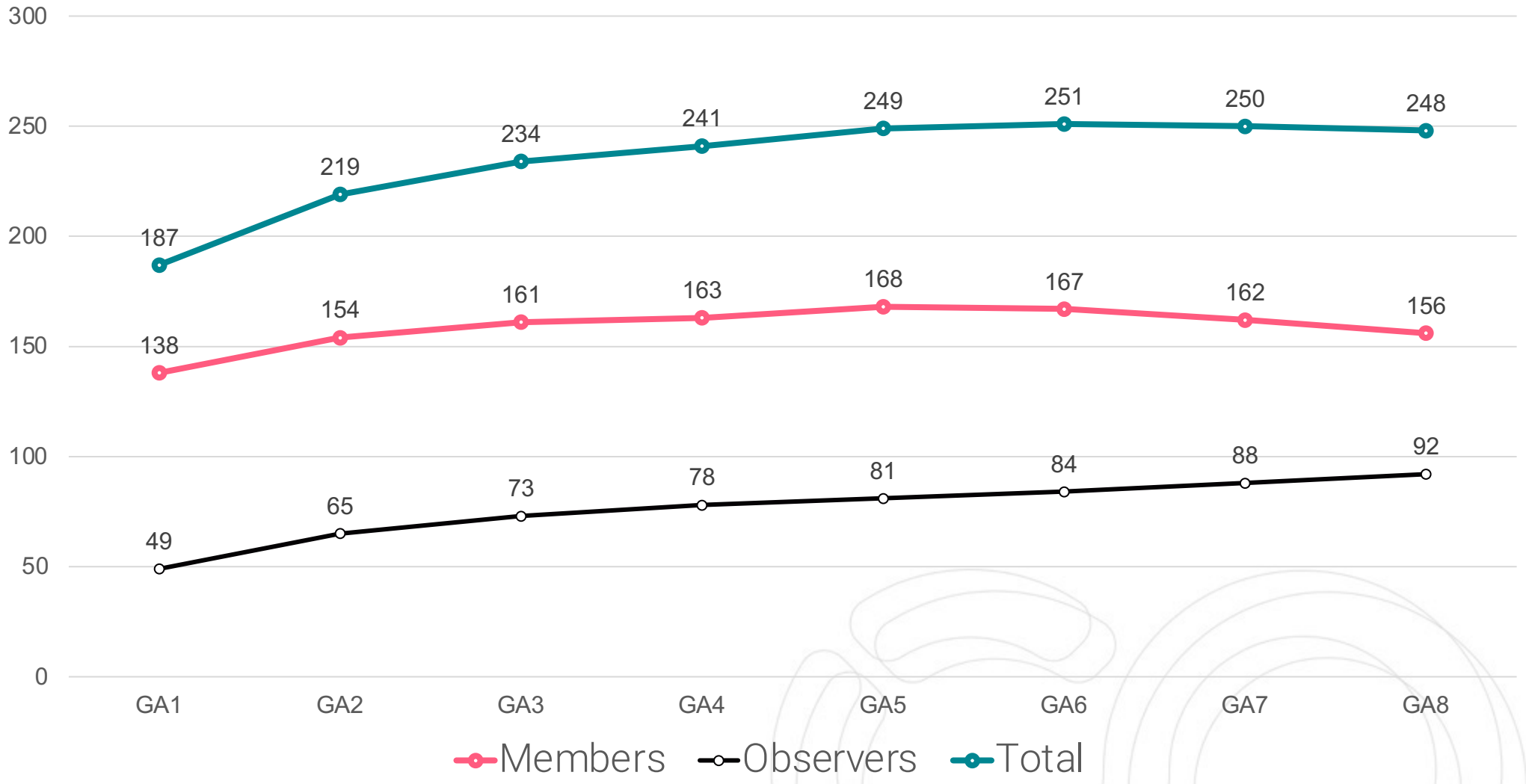
3th Coordination meeting of EOSC-related projects funded under Horizon Europe

Brussels, 20-21 June 2024

Update from the EOSC Association

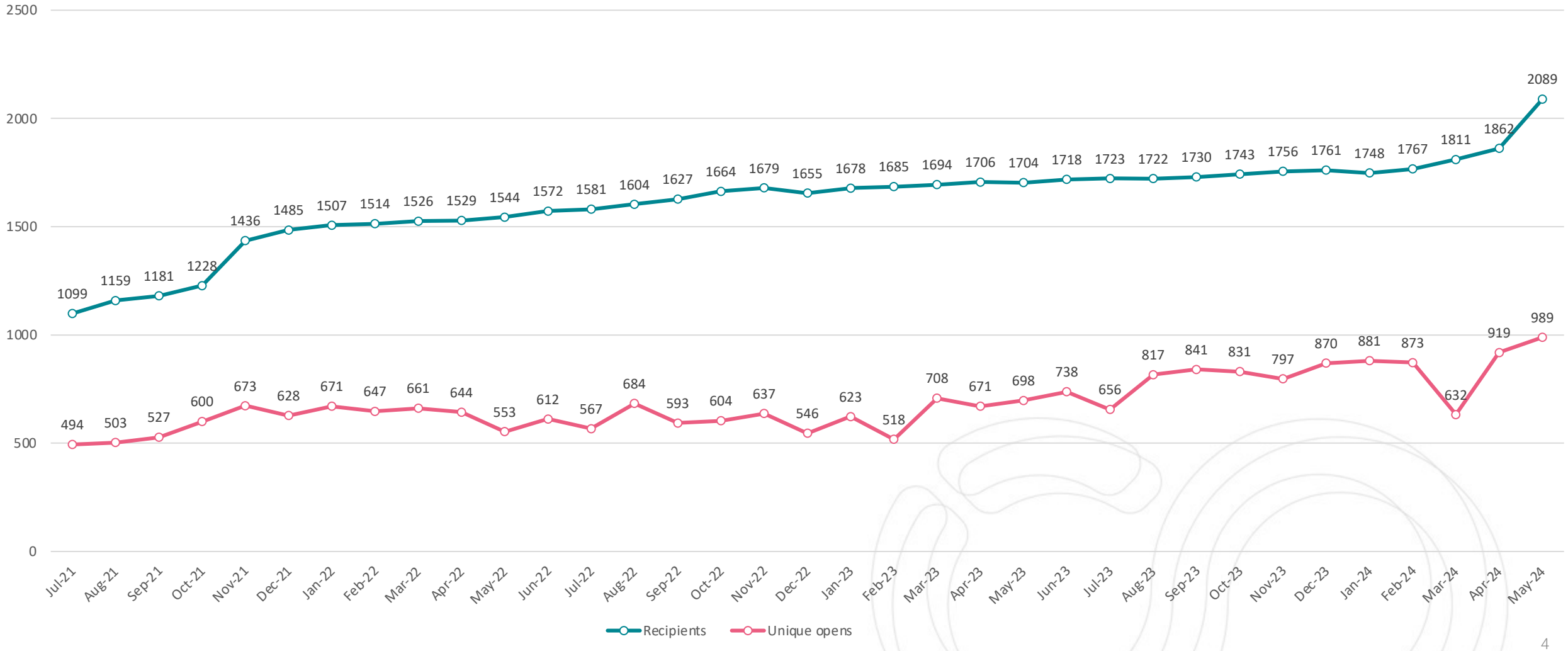
Karel Luyben, President, EOSC-A

Evolution of the EOSC-A member base



EOSC-A Newsletter subscribers and unique opens

January 2021 – May 2024



Engaging the Member Base

(Regular) meetings

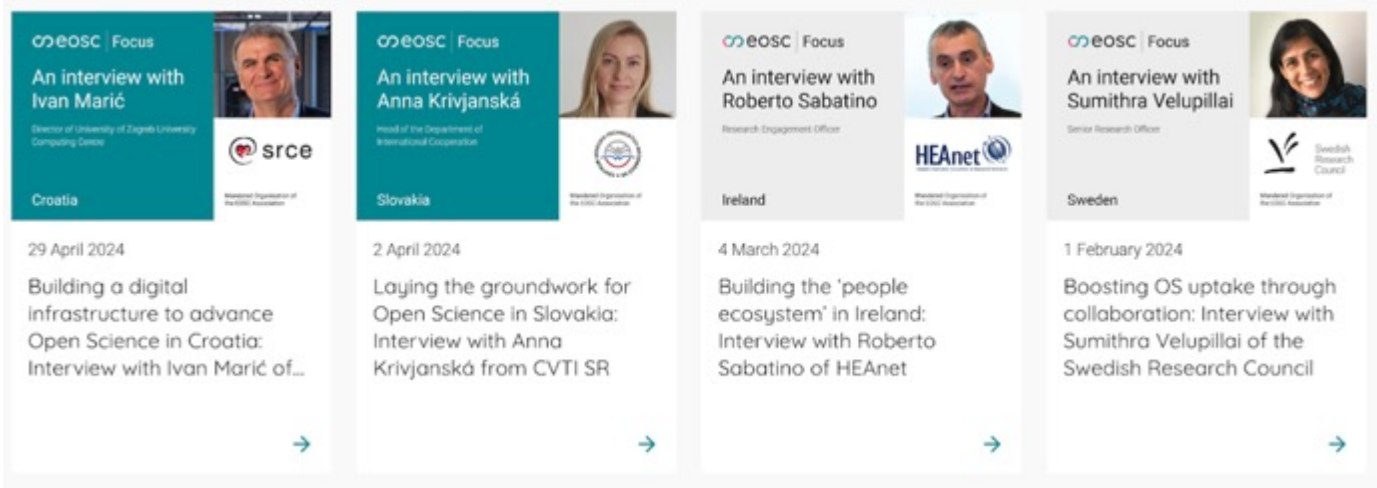
- Mandated Organisations
- ESFRI RI Working Group
- e-Infrastructures Forum
- RPO Umbrella Organisations
- Funders Forum

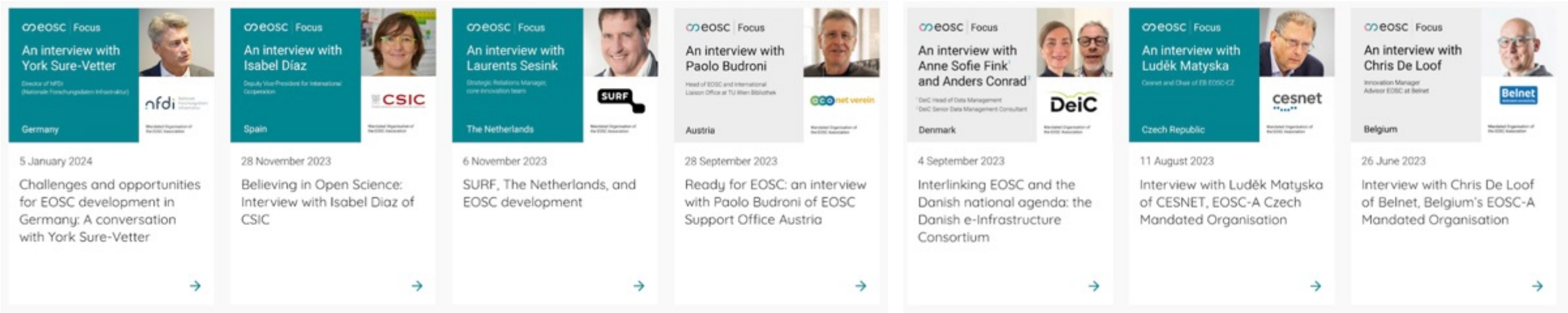
Mandated Organisations Forum

Item 4: Interim Report
Paper B

Bi-directional role: The EOSC-A Mandated Organisations are gradually evolving into **community hubs** in their respective countries bringing the European-level EOSC developments to their **national contexts**

Interviews with Mandated Organisations





ESFRI RI Working Group within EOSC-A

Item 4: Interim Report
Paper B

Established at GA#5, November 2022

BBMRI-ERIC®

CERN

cessda

CLARIN ERIC
Common Language Resources and Technology Infrastructure

DARIAH-EU
Digital Research Infrastructure for the Arts and Humanities

eatris
European infrastructure for translational medicine

EBRAINS

eli

EMBL

erinha
European Research Infrastructure on Highly Pathogenic Agents

ESO

ESRF
The European Synchrotron

European Social Survey

ess EUROPEAN SPALLATION SOURCE

EURO BIOIMAGING
Image life, discover the future

FAIR

NEUTRONS FOR SOCIETY

instruct ERIC

LifeWatch ERIC

OPERAS
open scholarly communication in the european research area for social sciences and humani-

PRACE

European XFEL

Re-launched with intense Node discussion

Item 4: Interim Report
Paper B

e-Infrastructures Forum

Bimonthly meetings initiated by e-Infras

Image from ec.europa.eu

The EOSC Association Funders Forum

1. What is the EOSC Funders Forum
2. Aims of the EOSC Funders Forum
3. Work Plan for the coming months

Photo by micheile henderson on Unsplash

Engaging Research Performing Organisations

- Outreach via our Members who represent intermediaries in the ecosystem, such as university alliances, networks and funders.
- Kick-off meeting on 22 April 2024

Photo by ICSA on Pexels

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NTE Belgium
16 April 2024
Brussels

Photos © FW-B – Jean POUCET

NTE Croatia
19 April 2024
Zagreb

NTE The Netherlands
22 May 2024
Utrecht

AAP and AAR surveys

Deadline: 30 June 2024

Additional Activities Plan (AAP) **2025** survey

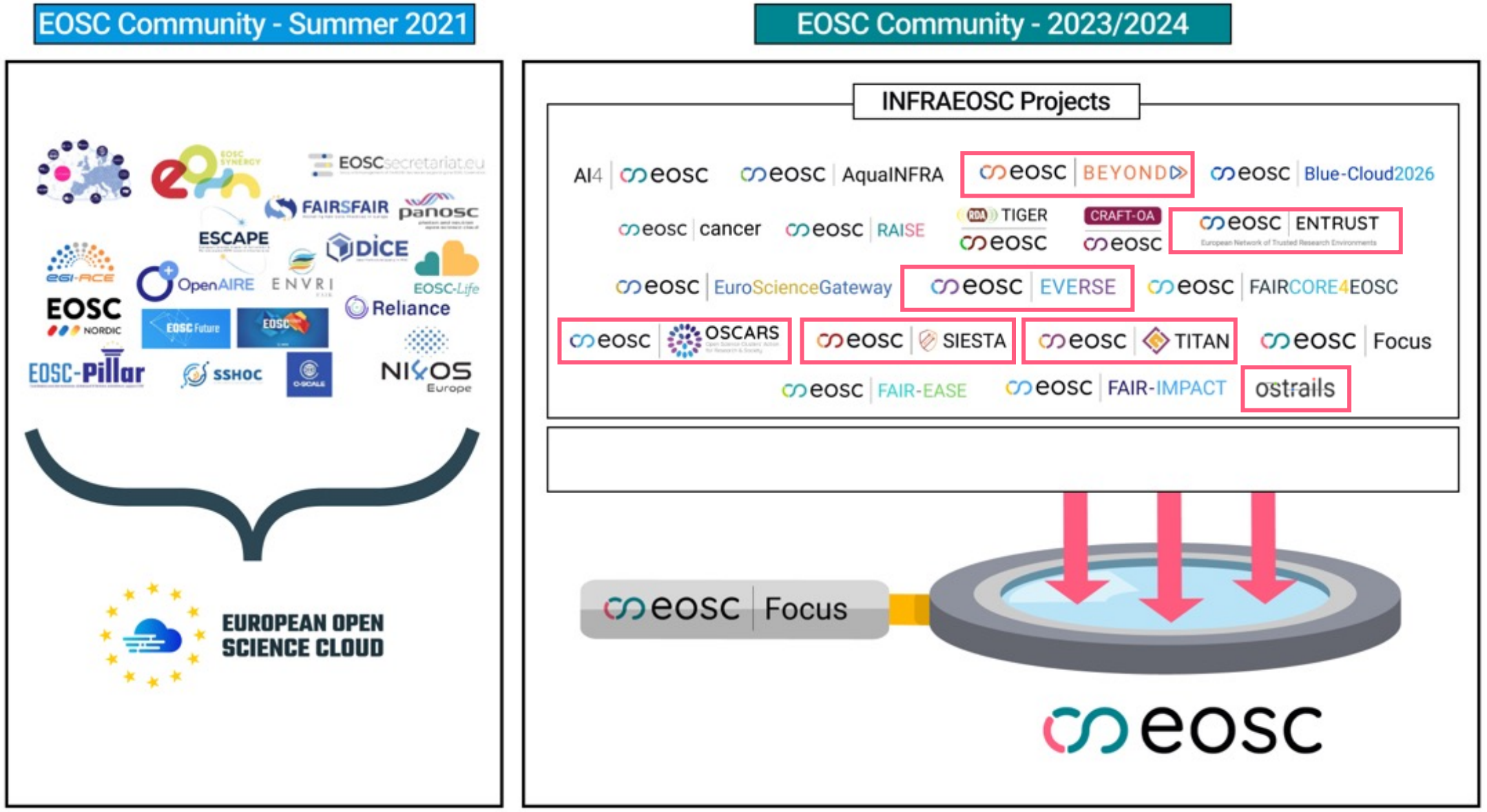
- Provide estimated in-kind contributions foreseen for 2025

Additional Activities Report (AAR) **2023** survey

- Validate actual contributions provided to AAP 2023

Office hours via Zoom
Every Thursday between
10:00-11:00 CEST until 30 June

Seven new Horizon Europe INFRAEOSC projects launched in Q1 2024



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Winter School 2024

29 January - 1 February 2024
Thessaloniki, Greece

eosc.eu | #eoscwinterschool2024

eosc | Focus

Funded by the European Union

eosc
Group 6
Arch of Galerius
"Kamara"

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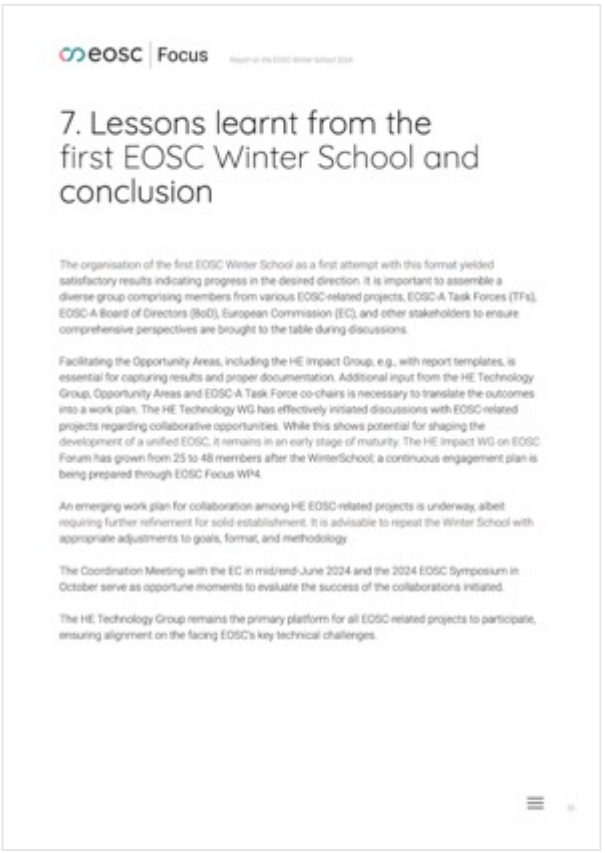
Report on the EOSC Winter School

2024

29 January -
1 February 2024

Thessaloniki, Greece



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7. Lessons learnt from the first EOSC Winter School and conclusion

The organisation of the first EOSC Winter School as a first attempt with this format yielded satisfactory results indicating progress in the desired direction. It is important to assemble a diverse group comprising members from various EOSC-related projects, EOSC-A Task Forces (TFs), EOSC-A Board of Directors (BoD), European Commission (EC), and other stakeholders to ensure comprehensive perspectives are brought to the table during discussions.

Facilitating the Opportunity Areas, including the HE Impact Group, e.g., with report templates, is essential for capturing results and proper documentation. Additional input from the HE Technology Group, Opportunity Areas and EOSC-A Task Force co-chairs is necessary to translate the outcomes into a work plan. The HE Technology WG has effectively initiated discussions with EOSC-related projects regarding collaborative opportunities. While this shows potential for shaping the development of a unified EOSC, it remains in an early stage of maturity. The HE Impact WG on EOSC Forum has grown from 25 to 48 members after the WinterSchool; a continuous engagement plan is being prepared through EOSC Focus WP4.

An emerging work plan for collaboration among HE EOSC-related projects is underway, albeit requiring further refinement for solid establishment. It is advisable to repeat the Winter School with appropriate adjustments to goals, format, and methodology.

The Coordination Meeting with the EC in mid/end-June 2024 and the 2024 EOSC Symposium in October serve as opportune moments to evaluate the success of the collaborations initiated.

The HE Technology Group remains the primary platform for all EOSC-related projects to participate, ensuring alignment on the facing EOSC's key technical challenges.

eosc | Focus

Wednesday afternoon:

- Case study - evaluating the RAI ID (developed by RAISE) against the EOSC PID Policy
- Validation of the policy with respect to intrinsic PIDs (aimed at authenticity and integrity)

Discussion highlights:

- Holistic alignment on EOSC PID policy update and implementation (from governance, grant proposal to assessment)
- Differences between maintenance of well established PID infrastructures vs emerging PIDs
- Differences/tensions between OPEN and FAIR

Recommendations

- Certification Authority for PID CAT: need for a mandate/authority to take over the certification
- Require PID Policy reference for new projects implementing new PIDs: If new PIDs are planned in project proposals, there should be a reference to PID policy
- Transition period to new EOSC-A designated authority group: formalisation of commitments and responsibilities
- Encourage adoption of community governed sustainable PID infrastructures: Fund and enforce adoption of existing PID systems that are aligned with the EOSC PID policy
- Shifting from creating PID systems to those services built on top of them
- Explore the federation of research graphs, and querying over federated graphs: defining value through use cases (exploiting the potential of PID graphs)

3.2 / OA2: Metadata, Ontologies & Interoperability

Tuesday afternoon:

- **Opportunity Area Matrix**: SRIA-challenges covered/not-covered by EOSC-related project activities and examples of solutions.
- **Task Force Results**: Reference architecture, interoperability profiles, maturity for semantic artefact catalogues, mappings and crosswalks, shared/common use cases.
- **SRIA 2.0 and future Task Forces**: Task force deliverables and associated recommendations can serve as a conversation starter.

Inside the EOSC Association

Item 4: Interim Report
Paper B

EOSC-A Board of Directors

Karel LUYBEN
EOSC-A President, 2023-2025

Marialuisa LAVITRANO
EOSC-A Vice-President, 2024-2026

Klaus TOCHTERMANN
EOSC-A Treasurer, 2024-2026

Ignacio BLANQUER
EOSC-A Director, 2023-2025

Suzanne DUMOUCHEL
EOSC-A Director, 2024-2026

Sara GARAVELLI
EOSC-A Director, 2022-2024

Bob JONES
EOSC-A Director, 2022-2024

Sarah JONES (in memoriam)
EOSC-A Director, 2023-2025

Wilhelm WIDMARK
EOSC-A Director, 2022-2024

EOSC-A Board of Directors Search Committee

Ronan Byrne, who is the current CEO of HEAnet, was a member of the EOSC-A Board of Directors until 2021. Ronan has a deep understanding of the foundations of EOSC and is a member of the Irish Government's National Open Research Forum, which drives Open Science policy in Ireland.

Lidia Borrell-Damian is the Secretary General of Science Europe and former Director for Research and Innovation at the European University Association. Lidia is fluent in both national-level research funding and the researchers and institutional stakeholders it supports.

Stefan Hanslik is the current Austrian delegate to the EOSC-Steering Board as well as the governing board of the EuroHPC Joint Undertaking. Stefan also serves as ESFRI's e-IRG chair, and possesses a broad overview of the EOSC ecosystem and Open Science policy landscape in Europe.

The EOSC Brain Pool – Task Forces, Opportunity Area Expert Groups

EOSC-A Task Forces (2021-2023)

Metadata and data quality
- FAIR Metrics and Data Quality Task Force
- Semantic Interoperability Task Force
- PID Policy and Implementation Task Force (PID TF)

Research careers and curricula
- Data Stewardship, Curricula and Career Paths Task Force
- Research Careers, Recognition and Credit Task Force
- Upskilling Countries to Engage in EOSC Task Force
- Researcher Engagement & Adoption Task Force (REA TF)

394 experts
28 Co-chairs

deliverables published

Wide dissemination of results

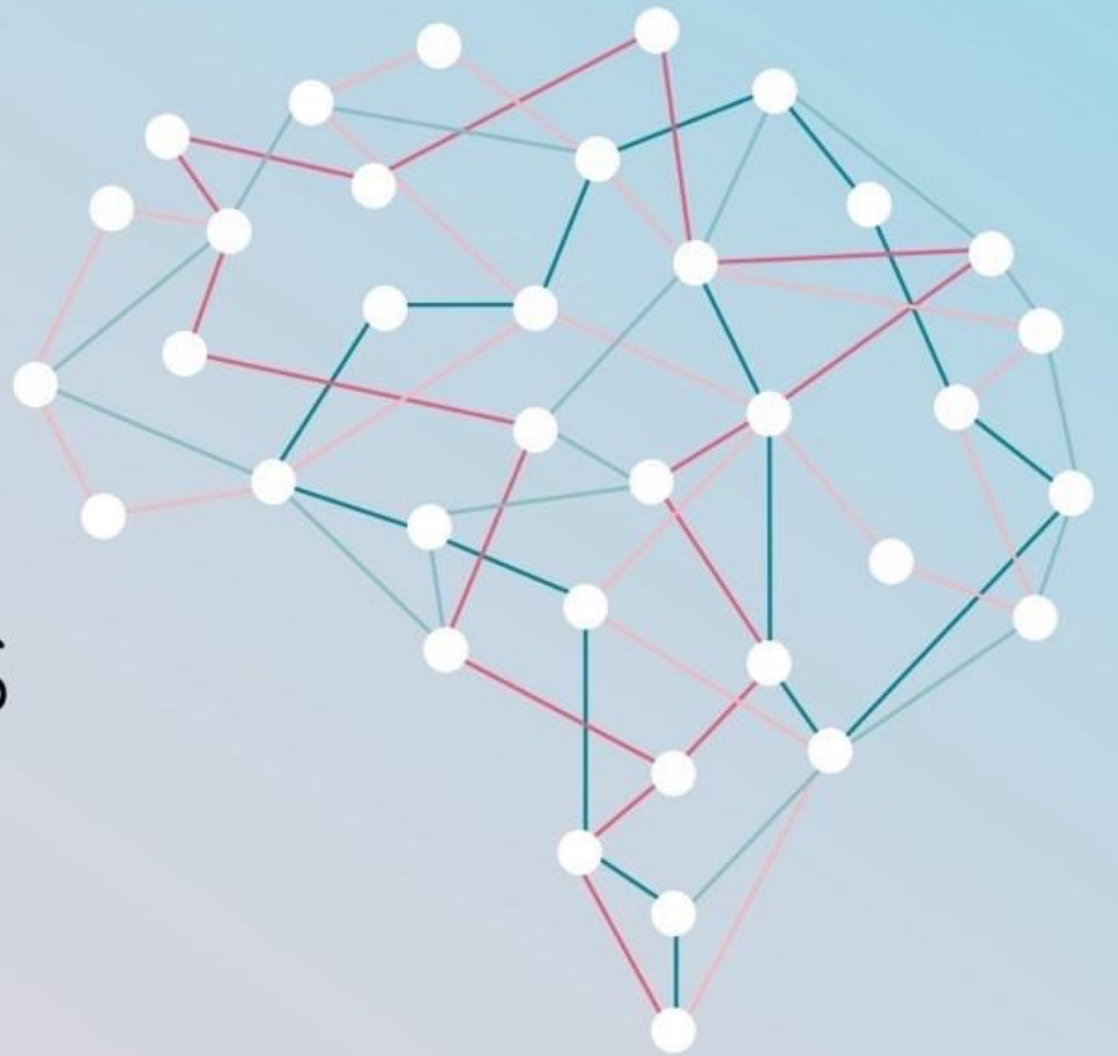
Sustaining EOSC
- Financial Sustainability Task Force
- Rules of Participation Compliance Monitoring Task Force (RoP TF)

Technical challenges
- Authentication and Authorization Infrastructure Architecture Task Force
- Infrastructures for Quality Research Software Task Force
- Technical Interoperability of Data and Services Task Force
- Long-Term Data Preservation Task Force

Thank you!

eosc | Task Forces

Open call for EOSC-A Task Force members



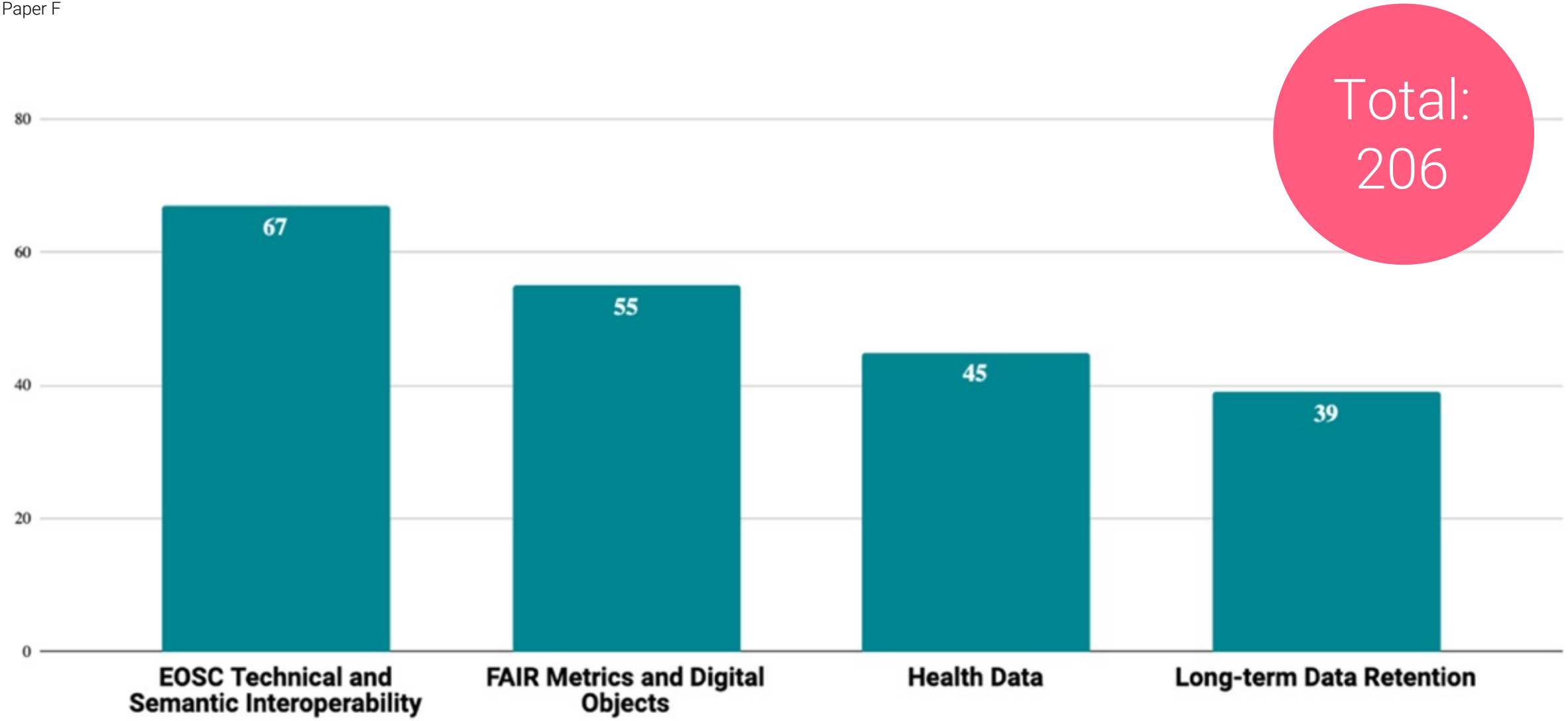
- FAIR Metrics and Digital Objects
- EOSC Technical and Semantic Interoperability
- Long-term Data Retention
- Health Data

Apply by 21 April!

eosc.eu

Number of applications submitted per Task Force

Item 8: EOSC Brain Pool
Paper F



Steps taken

Item 8: EOSC Brain Pool
Paper F

- **Evaluation of applications** done by Board
  - Only a few applications were **not eligible or had** profiles not aligned **with the TF Terms of Reference.**
  - **Notifications** to all applicants on the way,
- **Kick-off meetings in June**
- **Election of Co-Chairs and agreement on working plan** before the summer break.
  - Co-chairs are elected by the TF members (preferably keeping gender balance) and ratified by the EOSC-A BoD.

Interim Board Liaisons

Klaus Tochtermann
FAIR Metrics and Digital Objects

Bob Jones
EOSC Technical and Semantic Interoperability

Sara Garavelli
Long-term Data Retention

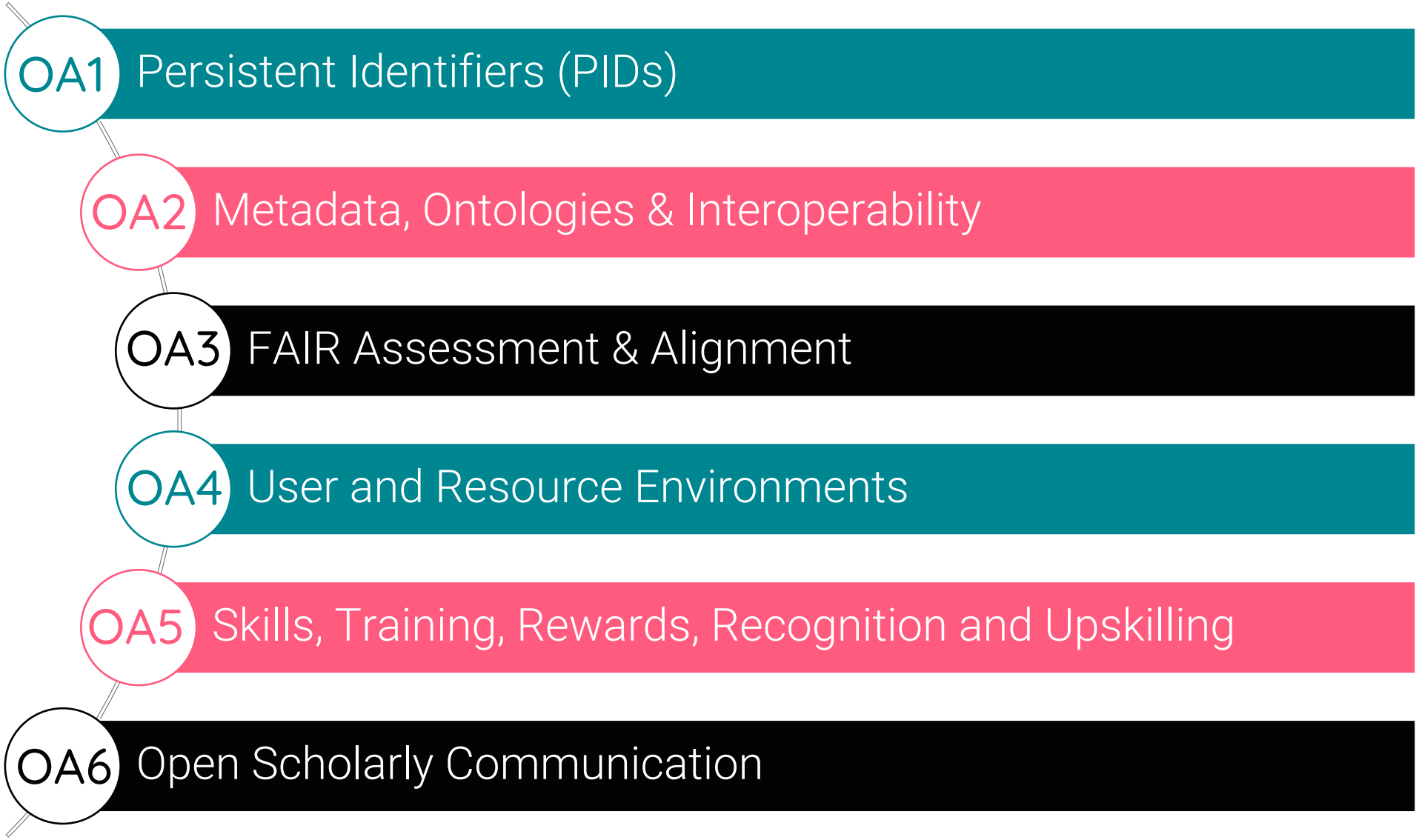
Ignacio Blanquer
Health Data

Opportunity Area Expert Groups

Strategic Instrument for Collaboration

- Opportunity Area Expert Groups are designed to maximize the impact of HE EOSC-related projects through strategic collaboration and co-creation of outputs with experts from the EOSC-A Task Forces.
- By facilitating collaboration between and outside the projects, which each have their individual objectives, Opportunity Area Expert Groups generate significant added value. They enhance the broader community's ability to solve specific challenges in the development of EOSC, making EU-funded projects more impactful.
- They maintain a dynamic work plan that is continuously adapted to the influx of new projects and members to meet the evolving needs of the EOSC community.
- They are open to members of former EOSC-A Task Forces.

Opportunity Area (OA) Expert Groups



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SRIA 2.0

SRIA 2.0

Item 7: SRIA 2.0
Paper E

Modified indicative timeline 2024

Indicative timeline for SRIA 2.0	
January	Draft Table of Contents
29 January	Discussion with INFRAEOSC projects and former TF Co-Chairs at “Winter School”
February	Identification of chapter owners and drafting the table of content of SRIA 2.0
April	Community consultation on the table of content
July	Update the EC on the status of SRIA 2.0
September -December	Drafting and consultation of SRIA 2.0

Draft outline of SRIA 2.0

1. Introduction
2. EOSC description
3. Interoperability
4. FAIR data and metadata
5. AI for FAIR and FAIR for AI
6. Services
7. Governance
8. Roadmap

Photo by Dids on Pexels

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SRIA 2.0: Community consultation

Your opportunity to contribute to the EOSC Partnership's Strategic Research & Innovation Agenda

Online consultation open from 2 April until 5 May 2024

eosc.eu

SRIA 2.0 – Next steps

Item 7: SRIA 2.0
Paper E

1) Consensus between EOSC-A and the European Commission
2) Targeted consultations on draft texts with relevant groups:
   - EOSC-Steering Board expert group,
   - Research Infrastructures
   - EOSC-A membership
   - Horizon Europe INFRAEOSC projects
   - Others
3) Submission for approval to the Partnership Board
4) Mature draft delivered by end of 2024

Partnership Board

5th meeting of the EOSC Partnership Board on 6 December 2023

Unanimously agreed were:

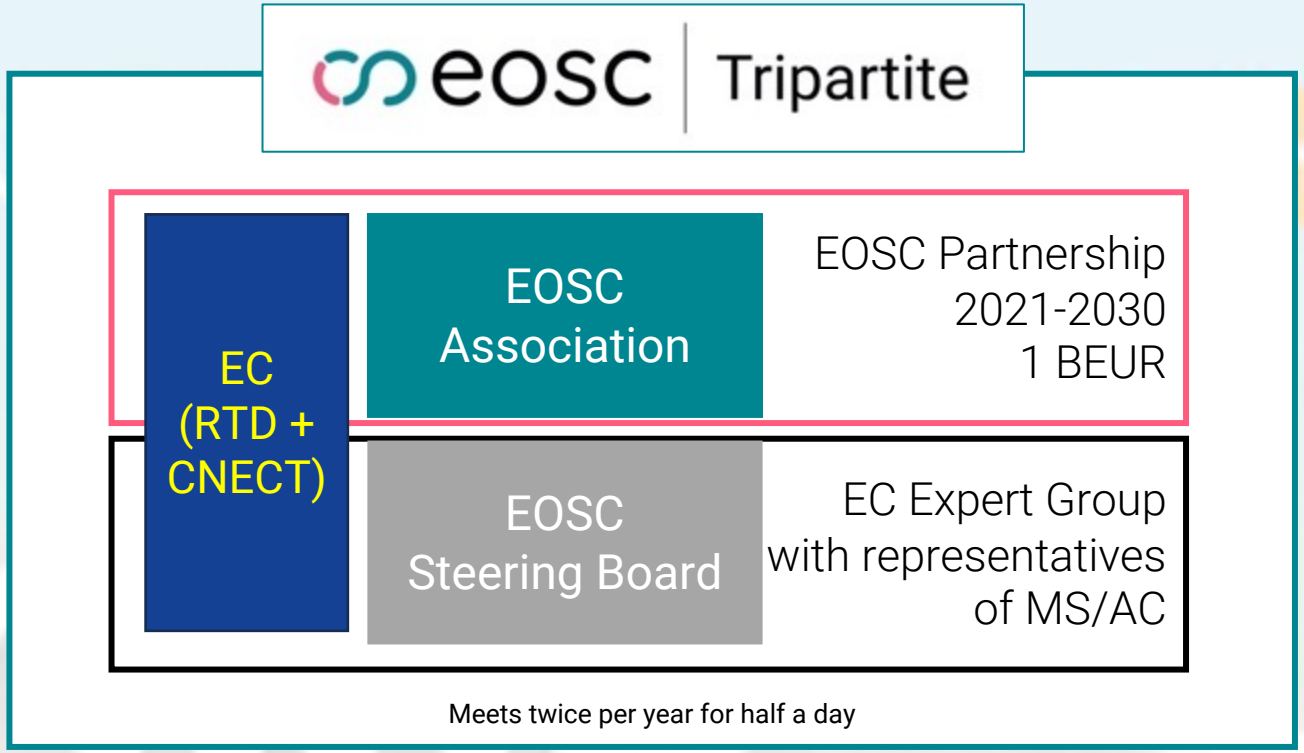
- SRIA 1.2 including MAR 2025-2027
- Additional Activities Report (AAR) 2022
- Additional Activities Plan (AAP) 2024
- Full Monitoring Report (FMR)

Next meeting
5 July 2024

Photo by Pawel Chu on Unsplash

Tripartite Governance & EOSC Partnership

EOSC Tripartite Governance



Tripartite Group / Re-scoping of 5 Tasks

Task 1

Deploying and operating the EOSC EU Node

Task 2

EOSC Federation

Task 3

Enabling a web of FAIR data and services for science

Task 4

Research and prototyping new capacities for the EOSC Federation

Task 5

Enable OS policies and uptake of OS practices through EOSC

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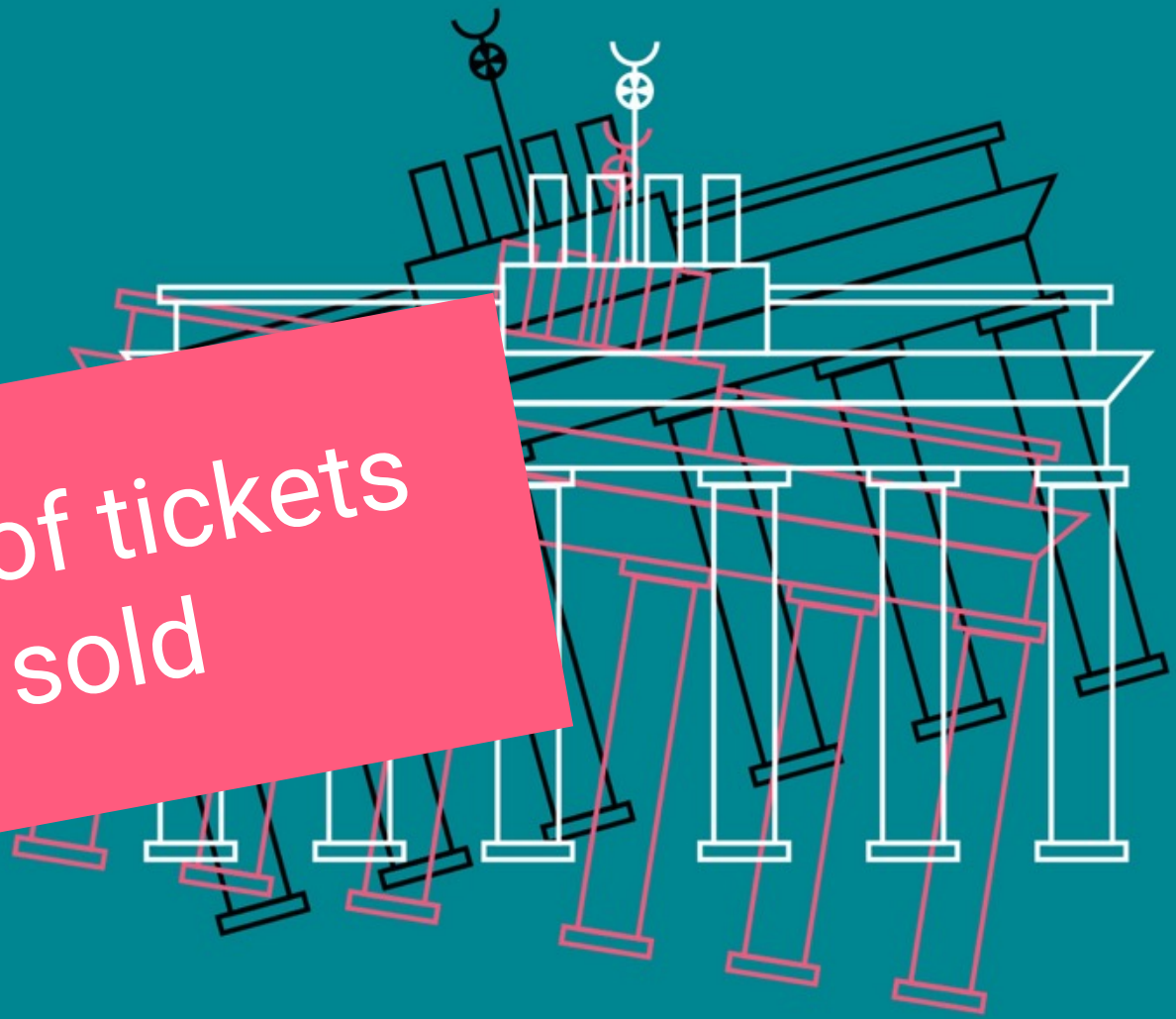
EOSC Symposium 2024



50% of tickets sold

21 - 23 October / Berlin, Germany

eosc.eu | #eoscsymposium2024

17 June 2024

UNDER THE PATRONAGE OF BETTINA STARK-WATZINGER MDB

Federal Ministry of Education and Research

eosc | Focus

Funded by the European Union

In cooperation with

nfdi Nationale Forschungsdaten Infrastruktur

ZBW Leibniz-Informationszentrum Wirtschaft Leibniz Information Centre for Economics

Photo by Leeloo The First on Pexels

Q&A

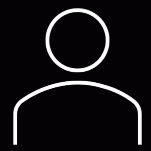
EOSC Federation Handbook

Progress updated by the EOSC Association Board

EOSC Federation Handbook co-creation

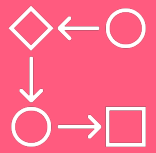
Aim

Prepare a handbook for the **EOSC Federation of Nodes** which covers the essential aspects of the purpose of the federation, what a node is, how to join, rules of governance, value proposition and rules of participation



Who

Driven by the EOSC-A and contributors from all interested parties (EC, Member states/ACs, RIs, EOSC-A members, etc.) who volunteered to participate in the co-creation of the Handbook



Process

The document is being written collaboratively with weekly meetups, open consultations, and sprints

EOSC Federation Handbook Contributors

Volunteers

33 volunteers expressed their interest and willingness to write.
After evaluating their CVs a total of 28 were selected.
They are organised in two groups – Writers and Reviewers.

Writers

The writers had their kick-off meeting on **6 June.**
Meet weekly to discuss progress & distribute tasks.

- First task was to write a **mission statement for the EOSC Federation**.
- Now writing the first chapter on "**Purpose of the EOSC Federation**" collectively.
  Multiple writers are assigned to each section.

Reviewers

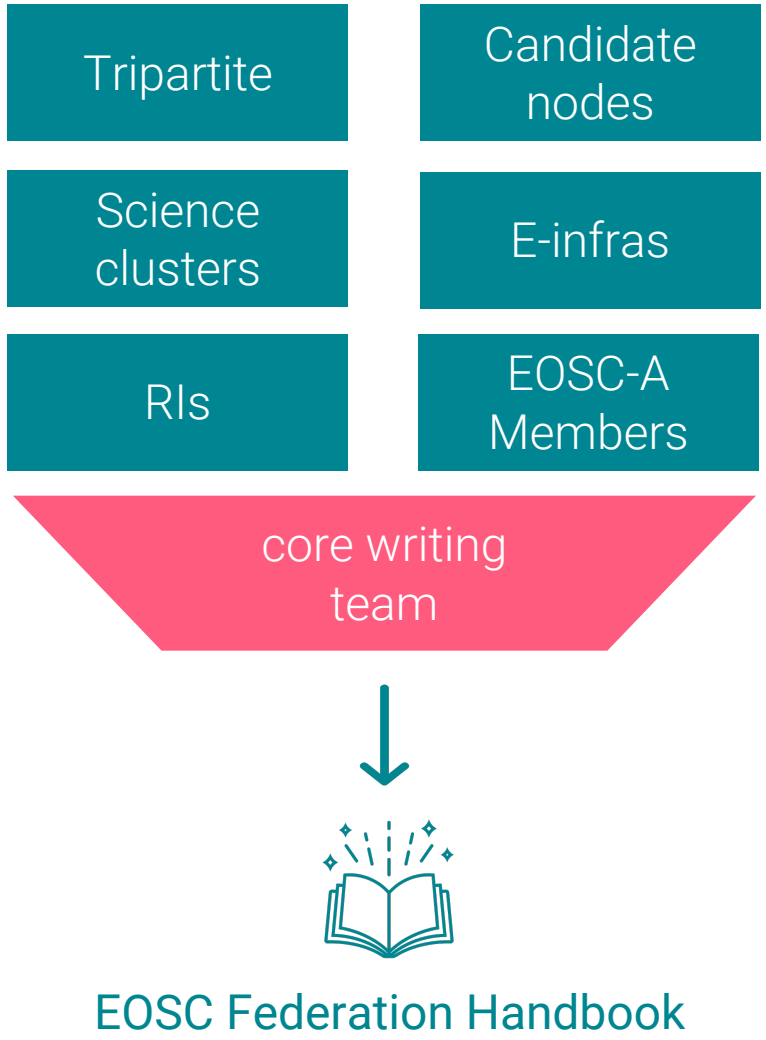
The reviewers will meet end of June for the first time to review the first chapter.

EOSC Federation Handbook - ongoing work

Open and Collaborative Work Plan

Actors

- Tripartite governance (**Reviewers**)
- EOSC-A membership (**15 Writers**)
- Candidate nodes (*not identified yet*)
- RIs/Science clusters (**5 Writers**)
- E-infras (**5 Writers**)
- EOSC projects (**10 Writers**)
- Member states (**5 Writers**, **1 Reviewer**)
- etc.



EOSC –Federation Handbook

- **Purpose [June]**
  - Goals & purpose of EOSC Federation
  - Success criteria for the Federation
- **Operational structure and responsibilities [July]**
  - Federating Entity
  - Nodes
  - Use Cases
- **Governance and legal framework [September]**
  - Governance structure
  - Legal framework
  - Policies (Rules of Participation, Access Policy, Acceptable Usage Policy, ELSI, IP, etc.)
  - Communication and External Relations
  - Risk management
- **EOSC platform [October]**
  - FAIR Data & Services (Core, Exchange)
  - Interoperability (EOSC Interoperability Framework)
  - Provisions for cybersecurity coordination
  - Links to external entities (e.g. other data spaces, EuroHPC, etc.)
  - Scientific services (discovery)
  - Training
- **Technical Operations [November]**
  - Linking to EU Node services

EOSC Federation Handbook – Chapter 1 Purpose

- Outline
  - Chapter 1 – Purpose of the EOSC Federation
    - Vision
    - Mission
    - Purpose and advantages
    - Users
    - Outcomes
    - Scope of Handbook
- Progress – writers actively contributing (10 pages already)

EOSC Federation Handbook planning

Planning

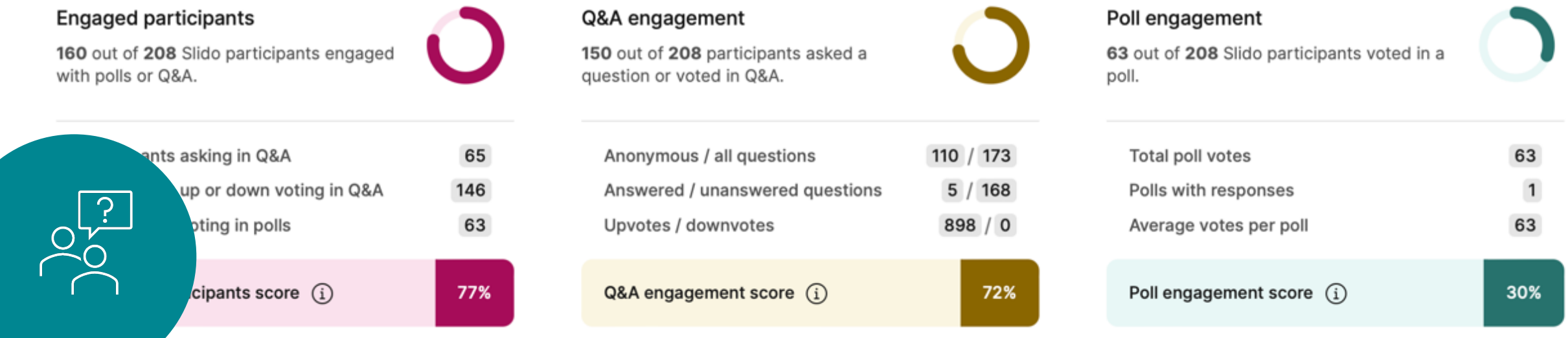
- *January 2024* – *Preliminary draft of Handbook outline prepared with EOSC Focus*
- *March 2024* – *Kick-off of Handbook writing process with core team (EOSC-A + EOSC Focus)*
- *April 2024* – *Preliminary discussion of EOSC Node during the Tripartite meeting*
- *May 2024* – *Call for Contributors to Handbook and selection of Writers + Reviewers*
- *May 2024* - *Breakout Session at EOSC-A General Assembly to gather feedback*

now →

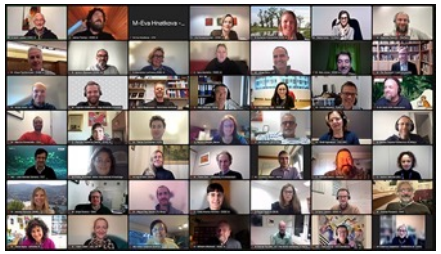
- June 2024 – Kickoff meeting of Handbook Writers team and started writing Chapter 1
- 1 July 2024 – Preliminary draft of Chapter 1 to be discussed at Tripartite Group meeting
- July 2024 – Preliminary draft of Chapter 2
- Sept' 2024 – Preliminary draft of Chapter 3
- Sept' 2024 – Open consultation meeting on Handbook
- October 2024 – Preliminary draft of Chapter 4
- October 2024 – Draft of Handbook presented at EOSC Symposium '24
- Nov'2024 – Preliminary draft of Chapter 5
- Nov' 2024 – Mature draft of Handbook to be endorsed at next Tripartite meeting

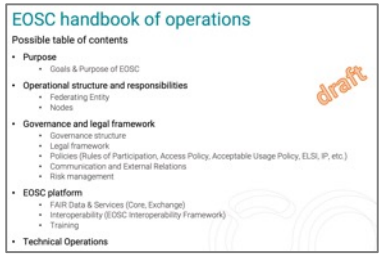
EOSC GA#8 Breakout Session Q&A

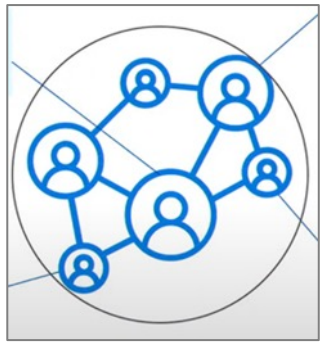
- **GA#8 Breakout Sessions** – during the GA#8 two breakout sessions were organised for 3 groups. The goal of the breakout sessions was to gather questions and feedback to be answered in the EOSC Federation Handbook.
- **Questions** – A total of 151 questions were gathered and have been classified by chapter. Roughly 50 questions concern the first chapter on Purpose.
- **Answers** –The EOSC-A editing team together with the writers are addressing the questions and using the answers as input material for the first chapter

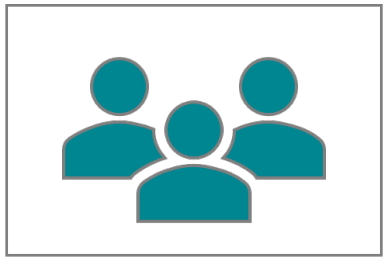


Evolution of Node Concept in 2024









January

2 Community webinars giving updates on federation & nodes

February

Integration of community feedback & drafting of table of contents for EOSC Federation Handbook

March

Discussion of EOSC Federation Handbook concept with EC and EOSC-SB Policy Group

April

Presentation of “Minimum requirements of Nodes” draft at European Tripartite Event

May

Tripartite group discussed co-creation of Federation Handbook and candidate nodes

Steps under governance of Tripartite Group

May	Call for Handbook contributors
28 May	Discussion at EOSC-A GA#8
31 May	Tripartite Group Meeting / Presentation of an Integrated Work Plan
6 June	Kick-off meeting with Handbook drafters (weekly meetings)
June	Launch of questionnaire
5 July	Partnership Board Meeting #6
	Continuous work over the summer
Sept	Community consultation phases
Oct	EOSC Symposium
Nov	Tripartite Event Budapest

Launch of the Questionnaire

for parties interested in contributing to the build-up phase of the EOSC Federation

Building the EOSC Federation: Requirements for EOSC Nodes

https://eosc.eu/wp-content/uploads/2024/05/EOSC-A_GA8_20240527-28_Paper-G_Update_EOSC_Nodes_requirements-DRAFT-v240524.pdf

Building the EOSC Federation: requirements for EOSC Nodes

[draft v 24/5]

Disclaimer: This document is primarily addressing entities interested in enrolling as EOSC Nodes. The requirements will evolve during the uptake of the EOSC Federation and are planned to be specified in the EOSC Federation Handbook. The document is not about the onboarding of service providers to EOSC Nodes, and it does not elaborate on the steps to be taken for the uptake of the EOSC Federation.

The European Open Science Cloud (EOSC), the Common European Data Space for R&I[1], is the EU's flagship initiative for the digital transformation of research.

The vision for EOSC is to put in place a system for researchers in Europe to store, share, process, analyse and reuse, within and across disciplines and borders, FAIR research outputs, such as research data, publications and software.

It is rooted in open science and deployed as a network between data repositories and services of research infrastructures and other scientific service providers to develop a trusted federation of research data and services for R&I in Europe. The development of the building blocks of the EOSC Federation will count on the latest community know-how, adopting and building on well-established and well-functioning existing structures and frameworks.

EOSC is transitioning to a fully operational mode: the EC-procured 'Managed Services for the EOSC Platform' are currently being developed and gradually put in operation under the branding of the EOSC EU Node[2], making it the first node of the EOSC Federation.

At the same time, partly through investments by the EU, its Member States and Horizon Europe associated countries, several thematic communities and national initiatives are maturing their infrastructures and services for EOSC readiness.

The EOSC Nodes will be the entry points for end users to the entire EOSC Federation, with each node offering its own services (including data reposing and accessing services) and possibly services of other providers ('third-party' services onboarded to the EOSC Node), in compliance with the EOSC Federation's common rules and requirements as well as the own policies of the EOSC Node. An organisation may therefore enrol its activities as an EOSC Node in the EOSC Federation or onboard its services on an existing EOSC Node as a provider.

These nodes will thus offer (scientific) services and/or data that adhere to the FAIR principles, including curated research outputs (such as publications, datasets, software, etc.), specialised

[1] https://digital-strategy.ec.europa.eu/en/library/second-staff-working-document-data-spaces
[2] https://open-science-cloud.ec.europa.eu/

1

e and/or platform services, and/or data processing

e EOSC Federation as nodes will benefit from:

By enrolling in the EOSC Federation as nodes, der pool of users, within and especially beyond their hical focus, enabling innovative use and exploitation ally expanding beyond research to industry and the ly connect to the other currently deployed Common will profit from a much broader access to FAIR data e EOSC Federation, enriching their own research, as own contributions to the EOSC Federation.

take advantage of commonly pooled resources and h as AAI, resource catalogues and registry services, reducing duplication of research and development their business models.

rganisations enrolling nodes in the EOSC Federation the latest European standards for research output will seamlessly comply with EU research and digital eration rules and policies.

isations to enrol as EOSC Nodes or to be considered e of the EOSC Federation.

shall ensure the quality of services offered by and to specific responsibilities towards other EOSC Nodes, vards their end users.

responsible for an EOSC Node aim to ensure that it legal capacity to take up this responsibility and to be opment of EOSC according to its long-term vision.

ible for the EOSC Node must be a public-benefit legal mber State or an associated country) with legal ecognised in all Member States and associated research organisation of European interest. The clude possible agreements with other partners e itself (e.g. providers making their data or services , with other nodes and/or with a potential future deration.

: EOSC Nodes shall be able to provide services at dorsed by the research communities, operating in a onment.

2

vices: beyond offering its own services, an EOSC Node rd-party services on it and to ensure that these services ndards, rules, and policies of the federation, including , transparency, and trustworthiness of these services.

e capabilities: EOSC Nodes shall have the capacity to re capabilities to be offered across the federation such on Infrastructure, resource catalogues and registry helpdesk.

ules and standards: organisations that are responsible o select which services they offer or share within the policies for access and use of these services, including nsive services. EOSC Nodes shall provide access to icies and be able to comply or to provide action plan to ossible federation-wide agreed policies, protocols, access rules, including the EOSC interoperability rity) and sovereignty standards.

shall be able to monitor and report the activity of the C Federation (e.g. monitoring usage of data, services ure the quality of the provided services, including the rd parties, and the compliance with the Federation's

es will strive to contribute to community engagement ch as training activities, consultations, usability testing,

able to confirm continued operations compliant to the ideally 5 years or more to ensure that they are reliable nd they shall be transparent about their measures to

rk and will be refined and elaborated in the months to h candidate nodes. Estimates about costs and benefits Nodes'.

ndidate EOSC Nodes'

l mass of prospective EOSC Nodes, possibly including country / nation), thematic nodes, (single sited and/or , or e-infrastructure nodes, and then to progressively adiness of more prospective nodes and to evolve the xperience gained by the initial operation of the EOSC

EOSC Nodes are a subset of the requirements for EOSC atus, sustainability, core capabilities/service provision

3

presenting the candidate EOSC Node must have the **authority to establish**

esponsible for the candidate EOSC Node should commit to providing **es** to ensure its operation for at least 24 months, ideally for 5 years or

SC Node must have **sufficient capacity and expertise** to be able to ensure services it includes can be operated at a sufficiently high Technology and nsuring robust, reliable and secure performance.

s must be at least findable and accessible to registered EOSC users and ciples in general, while services such as compute and storage capacity e in sufficient quantities to multiple user groups.

4

Status: 24.05.2024

Proposed timeline

4 June 2024
Preparation of questionnaire is promoted via the EOSC-A newsletter.

19 & 25 June 2024
Webinars to explain the purpose of the questionnaire and how to complete it.

2nd half August 2024
Deadline for completion of questionnaire.
This gives respondents sufficient time to consult with their members/partners.

September
Webinar(s) for all respondents, EOSC-A members, the Tripartite Group to gather feedback on the analysis and plan the next steps.

Early October 2024
Identify a small number of respondents that exemplify the different types of nodes proposed and key difficulties they may face during enrolment.
Suggest these identified respondents are invited to the face-to-face workshop proposed by Giorgio Rossi to present the plans for their nodes.

Jun | Jul | Aug | Sep | Oct

June 2024
We announce a webinar about the questionnaire to all newsletter receivers and suggest the Steering Board members distribute it to interested parties in their countries.

June 2024
Questionnaire made available for completion on the EOSC-A website.

August-September
Responses are collected and analysed by EOSC-A Secretariat & EOSC Focus and reported in a slide deck.
The analysis performed will show scale of interest to form nodes, national/thematic/other coverage, areas where potential candidate nodes think they will have difficulties fulfilling the minimum requirements, etc.

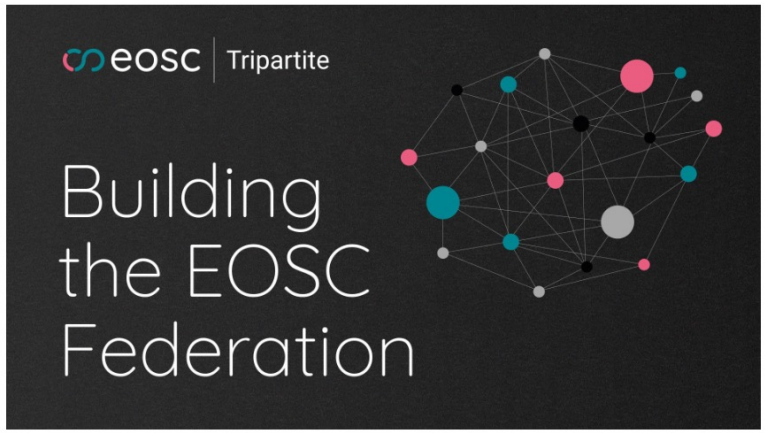
21-23October 2024
EOSC Symposium (when the EOSC EU Node will be announced)

Questionnaire for parties interested in contributing to the build-up phase of the EOSC Federation

The construction of the future EOSC has entered an important phase. The EOSC EU Node is expected to be presented to the scientific community in the frame of the EOSC Symposium in October 2024. Meanwhile, the discussions are intensifying on the aims, structure and tasks of the individual EOSC Nodes that will complement the EOSC EU Node to initiate the formation of the EOSC Federation.

The Tripartite Governance of EOSC is therefore launching a questionnaire to gauge the scale and scope of general interest and readiness for the build-up phase of the EOSC Federation. Interested parties are invited to reply to the questionnaire as the first step in their eligibility to contribute to a testbed of potential EOSC Nodes representing the different stakeholders involved in the research communities of Europe.

Based on the replies to the questionnaire, several organisations will be invited by the Tripartite Governance to contribute to the refinement of the EOSC Federation concept during the build-up phase. The build-up phase will help the Tripartite to gain experience from cooperation between the future EOSC EU Node and the individual future EOSC Nodes, and to test the different aspects of the EOSC Federation Handbook in practice. The invited organisations shall reflect the different types of stakeholders and organisations to ensure the best possible representation of the various European research communities.



Read briefing papers

Register for webinars

Proceed to questionnaire

DEADLINE: 18 AUGUST 2024, 23:59 CEST

WEBINARS FOR PARTIES INTERESTED IN BUILDING UP THE EOSC FEDERATION

https://eosc.eu/eosc-about/building-the-eosc-federation/questionnaire-for-parties-interested-in-contributing-to-the-build-up-phase-of-the-eosc-federation/#briefingpapers

Qustionnaire – Important to notice

No additional funding is associated with this activity. Submitting the questionnaire does not commit the respondent to onboard their resources (i.e. services/data repositories) nor to establish a future EOSC Node. At the same time, the invitation to form a node in the build-up phase does not automatically guarantee the status of a federated EOSC Node at a later stage. The decision of the future structure, organisation and funding of EOSC will follow the negotiations of the next European Framework Programme for Research and Innovation, FP10.

WEBINARS FOR PARTIES INTERESTED IN BUILDING UP THE EOSC FEDERATION

The EOSC Association will hold two webinars in June to explain the purpose of the questionnaire and provide guidance on how to complete it. Registration is required to attend. Interested participants can choose from the following dates and times:

- **Wednesday, 19 June 2024, 15:00-16:00 CEST**
- **Tuesday, 25 June 2024, 15:00-16:00 CEST**

Questions

1. Do you intend to offer your institutional resources through a future EOSC Node of the EOSC Federation?
2. Do you wish to join the build-up phase with the intention to build a potential future EOSC Node?
3. Are you able to identify the legal entity that would assume legal responsibility for the potential EOSC node?
4. Please list the resources your organisation intends to make available via the node (text list, for each entry give the TRL (1-9) and any restrictions that apply to use of the resource) and describe their added value to the EOSC Federation.

Questions

5. Are all these resources owned/operated by your organisation (yes/no)? If no, please indicate the owner/operators (text, select country)
6. Please estimate when you would be able to start offering resources to the EOSC Federation? (month/year)
7. What support/competences/training will be offered to the users of the resources made available via the potential node? (text)
8. What is the added value that you see for you and for your users in contributing to the EOSC Federation? (text)
9. Please add any additional remarks you would like to make about the EOSC Federation (text)
10. Upload supporting documents (optional)

Photo by Leeloo The First on Pexels

Q&A

European Open Science Cloud

Update on policy developments

Michael Arentoft
Open Science and Research Infrastructures
European Commission

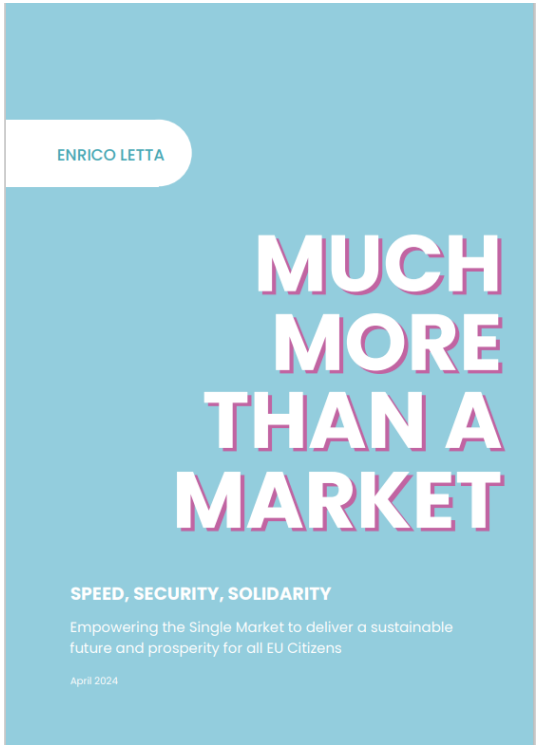
20 June 2024

EOSC, for the digital transformation of research

- An effective **policy process** to mobilise, align and scale resources and engagement across Europe towards accelerating open science, higher quality, productivity and reproducibility in research.
- An open and trusted federation of collaborative, autonomous infrastructures applying agreed, consensus-based EOSC policies and rules of participation, combined into a system of systems to enable European researchers to store, share, process, analyse, and reuse research digital objects (e.g. data, publications and software)

Letta report on empowering the Single Market:

https://www.consilium.europa.eu/media/ny3j24sm/much-more-than-a-market-report-by-enrico-letta.pdf



*"A **fifth freedom to enhance R&I and education** in the single market"*

*"A central pillar of this strategy is the **creation of a European Knowledge Commons** – a centralised, digital platform providing access to publicly funded research, data sets, and educational resources. ..."*

*" …**empowerment of our research infrastructures**: By facilitating access to laboratories, digital platforms, and cutting-edge equipment across Europe, we equip our research community to take on complex, multidisciplinary challenges vital to our collective future. This interconnected ecosystem transcends individual institutions or nations."*

Draghi report on EU competitiveness (to come).

European Commission

Pressing topics for R&I and EOSC

- *"Successful and timely uptake of **Artificial intelligence** in science in the EU".* Report by Group of Chief Scientific Advisors (March 2024).
  - *"Keep building and developing large multipurpose interoperable datasets linked to European data spaces (e.g., **European Open Science Cloud**, DestinE), and develop interoperability standards."*
  - *"Provide EU researchers with fair access to representative, high-quality datasets irrespective of their field of research, geographical area or affiliation while preserving privacy and ownership rights."*

- The Council Recommendation on enhancing **Research Security** (May 2024) addresses security risks arising from international research collaborations in a changing geopolitical context, while maintaining **openness** and safety.

- Council Conclusions on **Knowledge Valorisation** (May 2024) calls for transforming research and innovation knowledge into tangible benefits for society.

  - *"Art. 26. HIGHLIGHTS that open science practices enable the valorisation of knowledge. This includes ensuring that **research digital objects are FAIR-by-design**."*

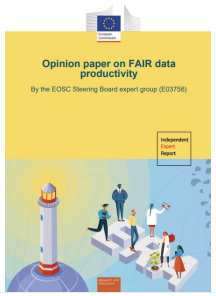
European Commission

https://www.consilium.europa.eu/media/ny3j24sm/much-more-than-a-market-report-by-enrico-letta.pdf

EOSC Tripartite collaboration
(EC +MS/AC +EOSC-A)

- EOSC pre-2027. Launching of the “Tripartite Group” in April 2024 *to prepare commonly agreed positions, to support the decision making and strategic guidance of the Tripartite governance on issues related to the EOSC Federation, such as:*
  - The requirements and procedures for enrolling EOSC nodes
  - Definition of policies and rules to be applied across the EOSC Federation.
  - Development and evolution of an “EOSC Federation Handbook”, coordinated by the EOSC-A
- EOSC post-2027. Discussion on future governance, finance and operations of EOSC
  - Considering Tripartite Governance, contributions of the different parties, further development and deployment of the Federation.
  - Providing input to the next Framework Programme.

Inputs for strategic orientation



- EOSC Partnership and the EOSC Strategic Research and Innovation Agenda
- EOSC SB opinion paper on “FAIR Data productivity” (May 2024):
  - Focus on supporting enhanced Quality Assessed FAIR Data productivity across the research life-cycle in all domains.
- EOSC SB opinion paper on “Advanced digitalisation of Research” (May 2024)
  - Advanced digitalisation as enabler of optimal use of unique research resources as Research Infrastructures and foster novel research workflows with variable degrees of automation.
  - Artificial Intelligence as a key service and motor for EOSC-Science Exchange and a research infrastructure in itself, of specific (thematic) and general (mission-oriented) value.
- ESFRI-EOSC Task Force, launched in June 2023.
  - TF Goal: to stimulate and enable the connection of ESFRI RIs and ERICs to the EOSC federation;
  - ESFRI-EOSC TF Milano Workshop and opinion paper, feeding into the SB papers (March 2023)

Prepared by:
ESFRI-EOSC Task Force[1]
[1] Full list of contributing members on page 8

Disclaimer: The views and opinions expressed in this publication are those of the contributing authors and do not necessarily reflect the views or positions of ESFRI and EOSC Steering Board or any other entities they represent.

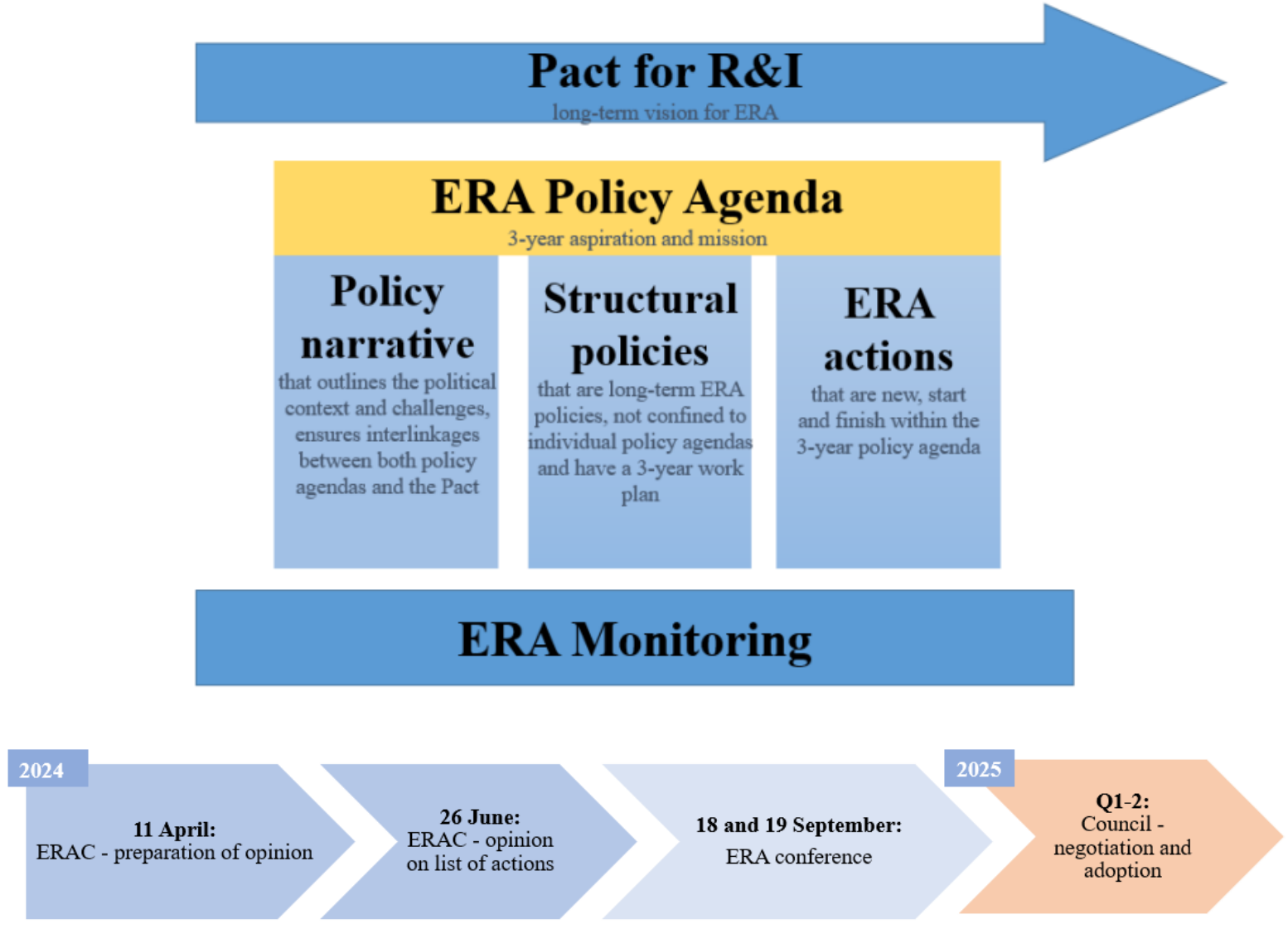
European Commission

HE Research Infrastructures WP. Strategic Orientations 2025-27

- Destination 1. Consolidation and evolution of research infrastructures, research infrastructures services, and technology development
  - 1.1. Consolidation and evolution of Research Infrastructures.
  - 1.2. RI services to support large research domains, societal challenges and EU priorities
  - 1.3. Next generation of scientific instrumentation, tools, methods, and advanced digital solutions of RIs and fostering innovation and co-creation with industry
- Destination 2: European Open Science Cloud (EOSC), Destination Earth (DestinE) and pan-European National Research and Education Networks
  - 2.1. Enabling an operational, open and FAIR EOSC ecosystem.
  - 2.2. Destination Earth (DestinE)
  - 2.3. Ensure state-of-the-art connectivity across Pan-European NRENs

WP 2026-2027: indicative adoption Q3/Q4 2025

Proposed structure of the next ERA Policy Agenda 2025-2027

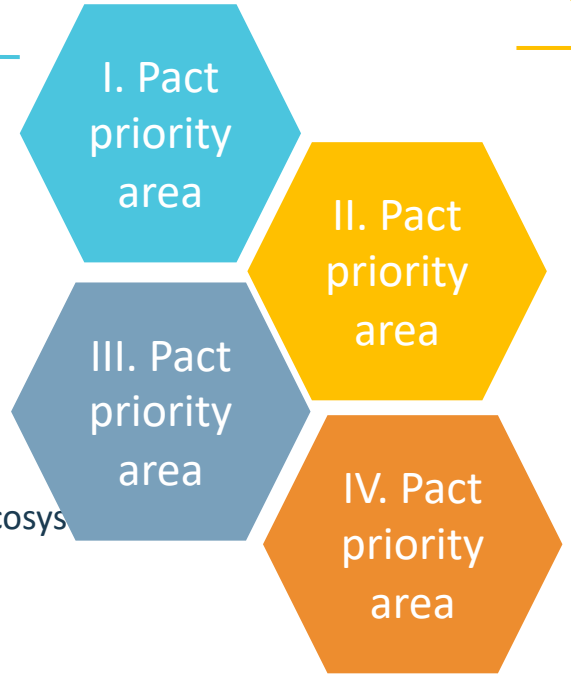


European Commission

Next ERA Policy Agenda 2025-2027: Current proposals

Deepening an internal market for knowledge

- **Enabling Open Science**
- Equity in Open and Responsible Research
- **Research Infrastructures**
- Inclusive and intersectional gender equality
- Research Careers
- Research Assessment
- Knowledge Valorisation
- Freedom of Scientific Research
- Fundamental research and scientific leadership
- Establishment of a European Science for Policy ecosys
- **AI in science and research in the EU**
- Global Approach to R&I
- Knowledge Security



Green and digital transition

- Revamping the SET Plan (merger with Renewable Energy Valleys, tbc)
- Greening Research: first steps towards sustainable research practices
- Non-animal approaches in biomedical research and testing pharmaceuticals
- A harmonised framework to support integrity and ethics in R&I
- Unleashing the full R&I potential of Europe‘s universities
- Industrial transformation for Europe‘s competitive sustainability and strategic autonomy
- Citizen Engagement, including trust in science for a stronger and more democratic European society

Research and innovation excellence

- Improve EU-wide access to excellence
- An new ERA for Research Management

Investments and reforms

- An R&I foresight community of practice

The value proposition of the EOSC federation

- **economies of scale:** EOSC nodes will take advantage of commonly pooled resources and functionalities, enabling them to focus on their core business.
- **interdisciplinarity:** EOSC will make a step change in fertilising research that cuts across established disciplinary boundaries, while increasing visibility and re-use of discipline-specific data and services.
- **research security:** researchers will find in EOSC a trusted and sovereign environment where they can securely store, analyse and share their results and collaborate with their peers within and across disciplines.
- **enabling AI:** by pooling massive amounts of high-quality FAIR research data, software and compute, and by connecting to other common European data spaces, EOSC aspires to become a key driver of European leadership in AI for science.
- **policy implementation:** infrastructure and service providers that will enrol in EOSC will seamlessly comply-by-design to the EU's research and digital policies that are enshrined in the rules and policies of the EOSC federation.

Thank you

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