



EOSC Association: activities and priorities

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President EOSC Association

***Slovak National Tripartite Event
31 May, Bratislava, Slovakia***



EOSC PARTNERSHIP

- Monitoring and reporting
- Multi-Annual Roadmaps
- Facilitation of Partnership Board meetings
- Contributing to the discussion on the future of EOSC
- Continuing to close the loops at national level

EOSC FOCUS

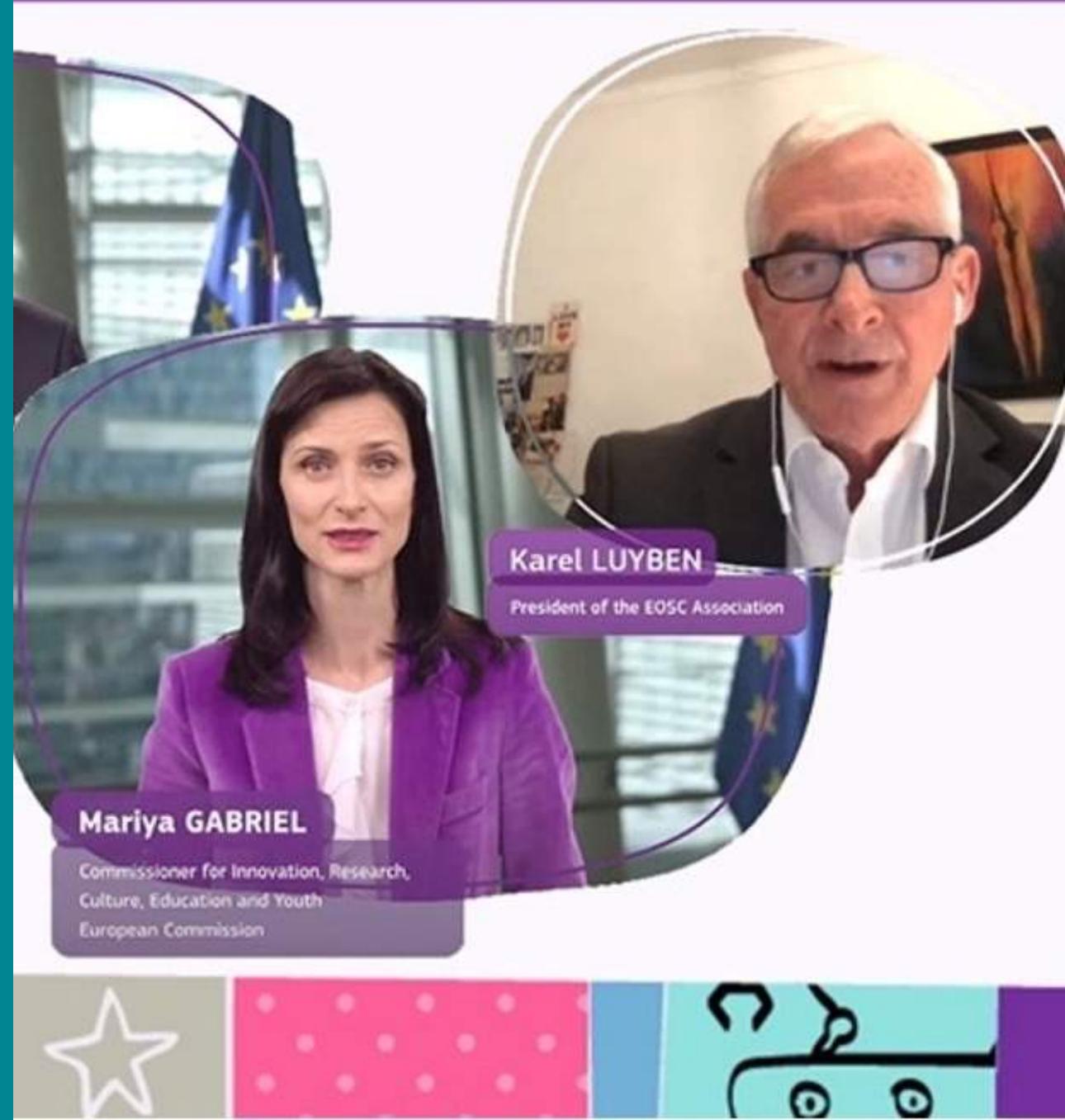
- Project Coordination and first periodic reporting
- Vademecum Update 2023
- Delivering added value through EOSC FOCUS

EOSC ASSOCIATION

- Supporting the Task Forces on their paths to delivery
- ESFRI RIs Working Group
- Teamwork – Bylaws and Membership Fee Models
- General Assemblies and formal Board Meetings
- Proactive engagement of the membership
- Broadcasting the “Voice of the Community” with the achievements of our members
- Directing the EOSC narrative
- Consolidating the EOSC brand and re-launching eosc.eu

Horizon Europe co-programmed EOSC Partnership

- Launched June 2021
- One billion euros commitment by the European Union and the EOSC Association





AAP 2021 (Pilot)
EUR 309.005.000
Eligibility of all months
unclear

AAP 2022
EUR 312.453.697
1468 FTEs
Demonstrators: EUR 64M

AAP 2023
EUR 383.929.296
2105 FTEs
Demonstrators: EUR 94M

Approved at PB #4, 19.12.2022

The Future of EOSC post-2027

Reflection Paper

- 14.11. *Discussion at Tripartite Event in Prague*
- Feb *Feedback by EOSC-A and EOSC-SB*
- 30.03. *“Reflection Paper 2.0” developed by EC*
- 07.04. *Feedback by EOSC-A Board*
- 24.05. *Tripartite Event / online*

Supporting document EOSC operations and evolution post-2027

For discussion in the EOSC Tripartite event on 14 November 2022

Authors: EOSC Association and Commission services

This document supports an initial strategic discussion at the level of the tripartite governance of the European Open Science Cloud (EOSC) regarding the **models for operating, governing, evolving and sustaining the EOSC Federation after 2027**. The document lists the main EOSC deliverables expected by 2027, thus portraying 'where we plan to be in 2027' and defines three main questions respectively on the governance, the funding and the partnership approach for the EOSC federation post 2027.

Following the discussion at the November 2022 Tripartite event, retained options will be further explored during 2023-2024, so as to be well prepared for incorporating the best scenario into the FP10 proposal foreseen for 2025, in view of the expected launch of FP10 in 2028.

The EOSC vision is to set up a 'Web of FAIR Data and Services' for science in Europe. Central to this ambition is the deployment of a trusted, virtual, federation of existing infrastructures in Europe to store, share and reuse FAIR research outputs across borders and scientific disciplines also called the **"EOSC Federation"**. Such a distributed EOSC 'system of systems' shall bridge across thousands of participating research infrastructure nodes of different nature operated across the EU and associated countries. EOSC can be seen as a thin federation layer based on the FAIR principles. The EOSC Federation should provide coordinated entry points primarily for researchers in Europe to find and access FAIR data and interoperable services that address elements of the whole research cycle (from discovery and mining to storage, management, analysis, publication, and re-use). The EOSC federation should also enable the monitoring of the re-use of research outputs and of the uptake of open science practices across borders and disciplines.

1. Where do we plan to be by 2027?

The overall objectives set for EOSC are to deploy operations to serve EU researchers and to progressively open-up, connect and articulate EOSC with the wider public sector and the private sector¹.

The successful uptake of such a federation depends on multiple aspects ranging from the adoption of minimum common technical solutions to the uptake of appropriate governance,

¹ As defined in the European data strategy (COM(2020) 66 final) which defines the European Open Science Cloud (EOSC) as "the basis for a science, research and innovation data space that will bring together data resulting from research and deployment programmes and will be connected and fully articulated with the sectoral data spaces."

National Tripartite Events

MAIN RESULTS:

- **21 countries targeted in NTE** (July 2022-April 2023)
- **1683 participants in National and NTE** (July 2022-April 2023)
- **+ 30 preparatory meetings**
- **31 country pages**
- **13 Articles**
- **6 Post event reports**
- **Social media coverage**



COUNTRY PAGES - SECTIONS:

- EOSC representatives
- OS in the country
- Coordination structures
- Policies
- Practices & Use Cases

2022



 **1293**

Participants

 **177**

Speakers & moderators

 **16**

Countries targeted

March & April
2023



 **390**
Participants

 **85**
Speakers & moderators

 **5**
Countries targeted

UPCOMING TRIPARTITE EVENTS (May - September 2023)





Focus



Funded by
the European Union



EOSC Focus

Supporting the co-programmed EOSC Partnership

Project duration

1 June 2022
31 May 2025

Budget

4 599 653

9 Partners

6 Countries



CLARIN



Implementation of EOSC

Technical challenges on EOSC

Technical interoperability of data and services
 Infrastructure for quality research software
 AAI Architecture
 Long-term data preservation



Metadata and data quality

Semantic interoperability
 FAIR metrics and data quality
 PID policy and implementation



Research careers and curricula

Data stewardship curricula and career paths
 Research careers, recognition and credit
 Upskilling countries to engage in EOSC
 Researcher engagement and adoption



Sustaining EOSC

Financial sustainability
 Rules of Participation compliance monitoring



Item 04: Interim Report / Paper B

Task Forces

Deliverables status

Deliverable#	Task Force	Title	Co-chairs	Board Liaison	Status
D001	FAIR metrics and data quality	Community-driven Governance of FAIRness assessment: An Open Issue, an Open Discussion	Chris Schubert Mark Wilkinson	Sarah Jones	Published
D002	FAIR metrics and data quality	FAIR Evaluation/Assessment Tools: Towards an "Apples to Apples" Comparisons	Chris Schubert Mark Wilkinson	Sarah Jones	Published
D003	FAIR metrics and data quality	Towards a data quality framework for EOSC	Chris Schubert Mark Wilkinson	Sarah Jones	Published
D004	Financial Sustainability	Towards Sustainable Funding Models for the European Open Science Cloud	Dale Robertson, Jan Meijer	Bob Jones	Published
D005	Long-term data preservation	EOSC Preservation: Overview Discussion Paper-LTDP TF	Hervé L'Hours, Roxanne Wyns	Bob Jones	Published
D006	Upskilling countries to engage in EOSC	Progress towards engagement in EOSC - a report on the activities and impact of the Upskilling Countries to Engage in EOSC Task Force	Jessica Lindvall, Helen Clare, Sabina Anderberg, Zisis Kozlakidis	Wilhelm Widmark	In preparation
D007	Infrastructures for quality research software	Research Software Lifecycle	Isabel Campos, Roberto di Cosmo	Ignacio Blanquer	Revised Document Received for Review
D008	AAI Architecture	Architecture report v2022	Christos Kanellopoulos, Jana Broncova	Ignacio Blanquer	In review
D009	Technical interoperability of data and services	Design Considerations for Technical Interoperability in EOSC	Eva Sciacca, Diego Scardaci	Ignacio Blanquer	Revised Document Received for Review
D010	Technical interoperability of data and services	A landscape overview of the EOSC Interoperability Framework Capabilities and Gaps	Eva Sciacca, Diego Scardaci	Ignacio Blanquer	In review
D011	Data stewardship curricula and career paths	Recommendations for Data Stewardship Skills, Training and Curricula with Implementation Examples from European Countries and Universities	Ilire Hassani, Celia van Geldern	Wilhelm Widmark	In preparation
D012	Research careers, recognition and credit	Position paper by the TF on RCRC looking towards the period 2024-2026	Gustav Nilsson, ?	Wilhelm Widmark	In preparation
D013	Data stewardship, curricula and career paths	Data Stewardship Career Paths: State-of-the-Art Report and Recommendations	Ilire Hasani-Mavriqi, Celia van Gelder	Wilhelm Widmark	In preparation

Rationale

- The ESFRI RIs are key actors in the implementation of the elements underpinning the realisation of the EOSC
- Establishing a regular dialogue with the ESFRI RIs that are members of the EOSC-A, with the main objectives
 - To further comprehend their needs and capacity in supporting the EOSC deployment
 - To enable a fuller uptake by the RIs of the opportunities arising from the EOSC partnership

Activities

- 5 Meetings in 2023
- MAR 2025-2027 consultation

EOSC-A member RI name	RI Domain
EBRAINS	DIGIT
PRACE	DIGIT
LifeWatch ERIC	ENV
BBMRI ERIC	H&F
EATRIS ERIC	H&F
ELIXIR	H&F
ERINHA	H&F
Euro-BioImaging ERIC	H&F
INSTRUCT ERIC	H&F
ELI ERIC	PHYS
ESRF EBS	PHYS
European Spallation Source ERIC	PHYS
European XFEL	PHYS
FAIR	PHYS
HL-LHC	PHYS
ILL	PHYS
CESSDA ERIC	SCI
CLARIN ERIC	SCI
DARIAH ERIC	SCI
ESS ERIC	SCI
OPERAS	SCI





Broadcasting the Voice of the Community

Steering Coordination to Leverage the Ecosystem

Stakeholder Engagement

Policy makers

Research funders

Research performers

Service providers

Projects

Researchers

Etc.



Awareness

Policies

FAIR Data

Infrastructure

Services

Results

February 2023

M	T	W	T	F	S	S
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

March 2023

M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April 2023

M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May 2023

M	T	W	T	F	S	S
1	2	3	4	5	6	7

Delivering on the EOSC Partnership Requirements

- EOSC Partnership Monitoring Baseline established and AAP “instutionalised”
- Multi-Annual Roadmap 2025 – 2027 consulted
- Tripartite Events owned by the countries
- Discussion on the future of EOSC post-2027 in full swing
- EOSC Focus is delivering
- Collaboration with HE INFRAEOSC Projects taking shape
- Housekeeping within EOSC-A addressed
- Task Forces continue to deliver
- The voice of the community is being broadcast

Tasks on the way to create EOSC

Operational and development tasks in discussion with the EC

1. Deploying and operating the EOSC EU node
(Core, Exchange, FAIR Data Federation)
2. Maintaining and updating the EOSC EU node and expanding the EOSC federation
(with elements that are close to the 'market')
3. Enabling a 'web of FAIR data and services' for science
4. Develop, prototype and test new elements supporting the evolution of the EOSC Core and Exchange and the tools enabling the federation
(focus on elements that can be made ready for the 'market')
5. Enabling Open Science policies and the uptake of Open Science practices

EOSC 'helicopter view'

Slide from M. Schouppe (EC)

EOSC-SB meeting #16, Stockholm, 26 April 2023,
and 24 May 2023 Tripartite event on EOSC post-2027

Main EOSC tasks for the future

Task 1: Deploying and operating the EOSC EU node
(Core, Exchange, FAIR Data Federation)

Task 2: Maintaining and updating the EOSC EU node and
expanding the EOSC federation
(with elements that are close to the 'market')

Task 3: Enabling a 'web of FAIR data and services' for
science

Task 4: Develop, prototype and test new elements
supporting the evolution of the EOSC Core and
Exchange and the tools enabling the federation
(elements that can be made ready for the 'market')

Task 5: Enabling Open Science policies and the uptake of
Open Science practices

What do we concretely aim for?

- Researchers performing publicly funded research make relevant results available, as openly as possible;
- Professional data stewards are available in research-performing organisations in Europe to support RDM for Open Science;
- Research data produced by publicly funded research in Europe is FAIR (by design);
- The EOSC Interoperability Framework supports a wide range of FAIR digital objects including data, software and other research artefacts;
- EOSC Federation is populated with a valuable corpus of interoperable data;
- EOSC (version x) is operational and provides a stable infrastructure, supporting the research process and helping to address societal challenges;
- The scope of EOSC is widened to serve the public and private sectors;
- EOSC is a valuable and valued resource to a wide range of users from the research and education, public and private sectors (including for-profit).

- After an initial period of many projects without much convergence (2015-2020) we have to see that we get our aims sufficiently developed in the present period of convergence (2021-2026).
- For this it is essential that we get a Minimal Viable EOSC (MVE / EOSC-EU-node) operational asap and as good as possible aligned with work done by all the relevant communities (European, National and Institutional).



Agreed priorities for 2023 - 2024

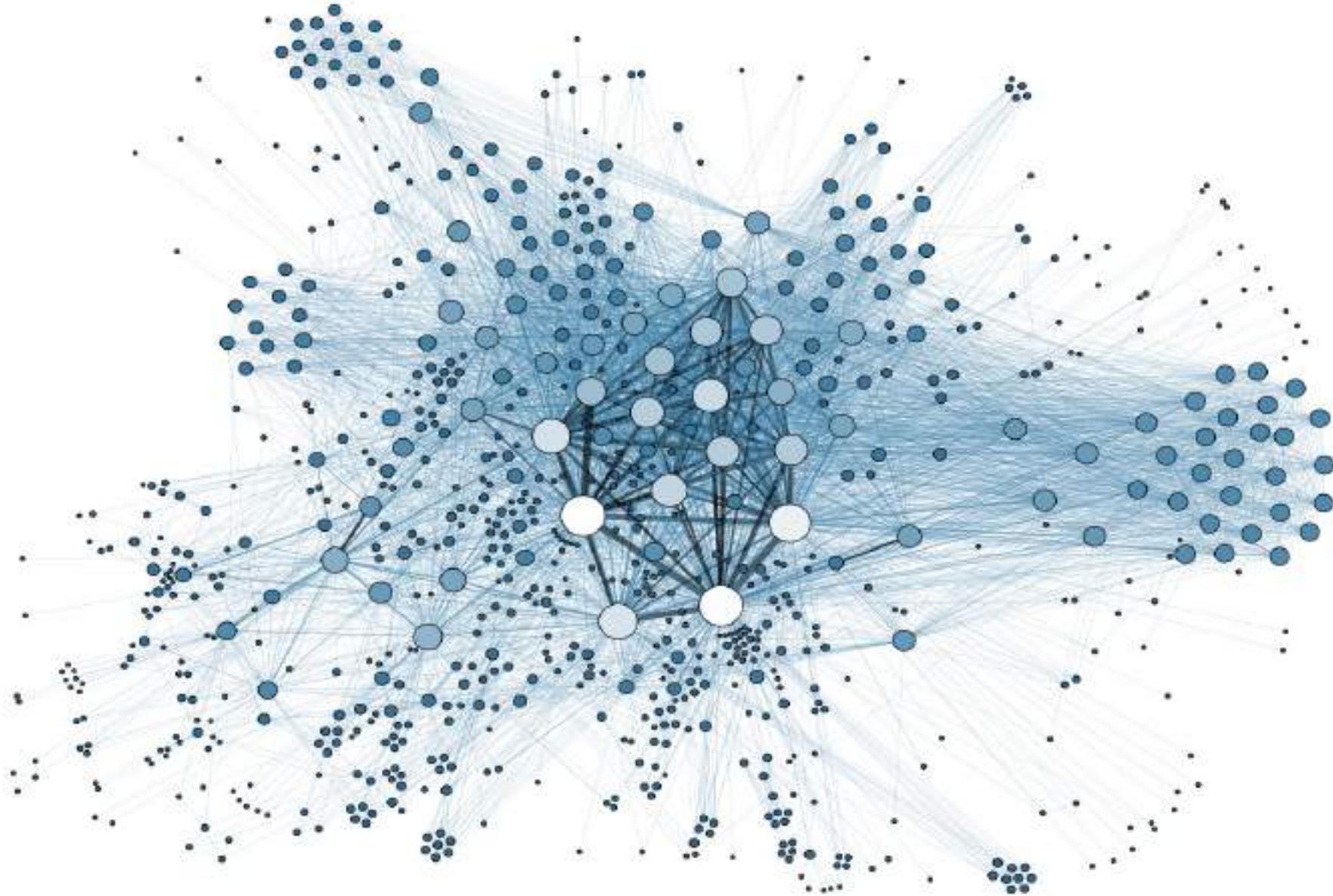
Technical

- ***EOSC-Core creation and onboarding procedures***
- ***Interoperability and data search***
- ***Data quality***

Involvement

- ***Member State engagement***
- ***Funding / resourcing models***
- ***Skills and the recognition and rewards***

Outlook to the future



Let's co-create EOSC





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THANKS

