e-IRG Workshop, 21.06.2023

Short Keynote of the EOSC Association

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Credits: vecteezy.com

04 July 2022

Kick-off of the Discussions on the Future of EOSC post-2027

- Informal brainstorming meeting in the context of the Tripartite Collaboration in Brussels

- Agreement on drafting a "Reflection Paper" on the "EOSC operations and evolution post-2027"

21 June 2023 by EOSC-A

Reflection Paper / Discussion

European Tripartite Event in Prague,

14 November 2022

- Where do we plan to be by 2027?

- What governance do we need for the EOSC federation post-2027?

- What funding sources and tools to cover what EOSC operations/development?

- Do we need to evolve the current partnership in FP10?

- What process and milestones in the period 2023-2024?

Draft of 28 October 2022

**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 sector[1].

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.".

1

Feedback from the Tripartite Discussion in Prague

Establishment of a Process

- EOSC implementation steering by research projects is too fragmented

- In-kind contributions at national and institutional levels are massive
  but a complementary approach is needed once EOSC operations will have to be sustained

- There will be a need for financial contributions in a hybrid mode, at EU and MS levels

- Need for 'game changer' in 2027: will have to manage and sustain an operational EOSC capacity

- EOSC is unique and may well require novel approach in terms governance, financing and legal implementation

- Need to get feedback/reflections by the three parties on the current supporting paper early in 2023, also having in mind to reduce the range of options

- Identify a few scenarios of governance and funding models and develop related SWOT analyses

- Meet again at tripartite level in 2023 to decide on next steps

Reflection Paper / EOSC- A Response

The Future of EOSC post-2027

Preferred Models

Indirect management

We define "indirect management" as a model that entrusts tasks to an entity other than the Commission and its Executive Agencies.

- **Article 185 TFEU:** a private law body entrusted with a public service mission. This is the governance model for both **GÉANT** and **Prima**.

- **Article 187 TFEU**: in particular, a **Joint Undertaking.**

Corrigendum: GÉANT not under Art. 185 TFEU

In addition, we wish to better understand the model of a "**European Cooperative Society**", which has been discussed within the EOSC-A Financial Sustainability Task Force. We are aware that this model has not been part of the initial Reflection Paper, however, we consider it relevant to further discussions.

EOSC 'helicopter view'

Slide from M. Schouppe (EC)

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

The voice of the community in the discussion about the future of EOSC post-2027

General Assembly #6 / Interactive Table Discussions

Session	Topic	Colour
Part I 9:15 - 10:15 (1 hour)	EOSC vision and roles	BLUE
	Engagement: Who is EOSC for? What is the role of intermediaries?	YELLOW
	EOSC scope and technical implementation	PINK
	EOSC relevant policies and strategic initiatives	RED
Part II 10:30 - 11:30 (1 hour)	Deploying and operating the EOSC EU node	GREEN
	Maintaining and updating the EOSC EU node and expanding the EOSC federation as a System of Systems	ORANGE
	Develop, prototype and test new elements supporting the evolution of the EOSC Core and Exchange and the tools enabling the EOSC federation	PURPLE
	Enabling a 'web of FAIR data and service' for science	BLACK
Part III 12:00 – 12:50 (50 mins)	Reporting - Plenary	

European Tripartite Event, 24 May 2023

Online

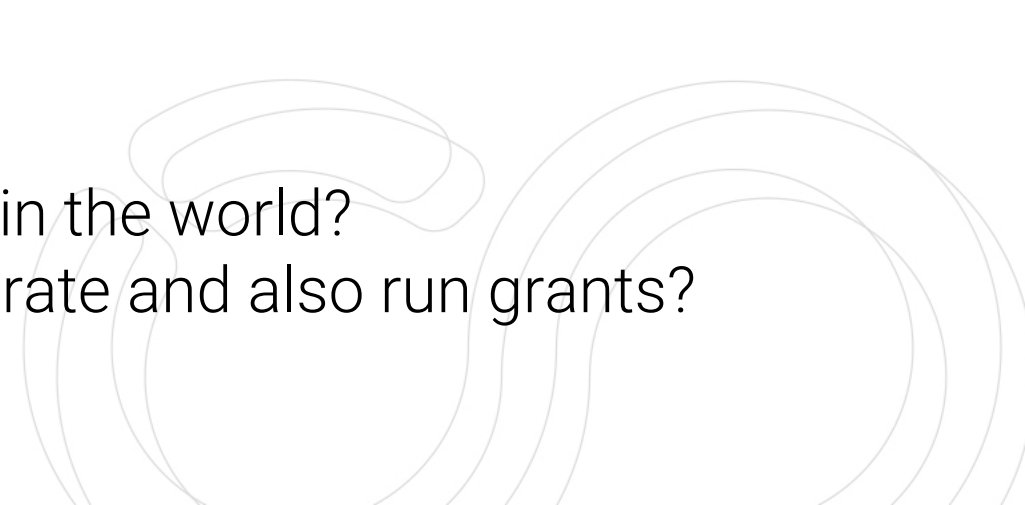# Virtual tripartite event on 24 May 2023 - Conceptual agenda

➢ <u>Scenario 1</u>: Direct management of Tasks 1 to 5 by the EC

➢ <u>Scenario 2</u>: Indirect management of Tasks 1 to 5 by an external entity

➢ <u>Scenario 3</u>: Hybrid management:
- Tasks 1 and 2 by an external entity;
- Tasks 3 to 5 by the EC

Tasks for EOSC Association to see to:

- Outreach to stakeholders
- Manage the 'EOSC' trademark(s)
- Monitor additional activities and KPI
- Contribute to Horizon Europe ERA Actions

- Further develop and govern the EOSC-EU-node
- Manage the AAI
- Manage PID policies
- Manage an Interoperability Framework
- Manage the compliance framework

21 June 2023 by EOSC-A

Considerations for the 'EOSC Association'

- Run operations?
- Do development?
- Have the operations run?
- Have development done?
- Implement the federating structure?
- Set the rules of participation?
- Suggest standards, tools and services?
- FAIR police?
- Improve the interoperability?
- Interoperability police?
- Seek alignment with other regions in the world?
- Be the entrusted legal entity to operate and also run grants?

Regeringskansliet

Sveriges regering ⌄   Regeringens politik i Sverige & EU ⌄   Dokument & publikationer ⌄   Så styrs

Informationsmaterial från [Utbildningsdepartementet](#)

Lund Declaration on Maximising the Benefits of Research Data

Publicerad 20 juni 2023

The Swedish Presidency of the Council of the European Union calls for reinforcing, accelerating, and maximising the benefits of FAIR and open research data in Europe, within scientific communities and through research infrastructures, to increase the overall research and innovation performance of the European Research Area and strengthen the outreach to and impact on industry and society.