

EOSC-A Board of Directors Position Paper The EOSC Federation and the role of Nodes

Bob Jones

EOSC-A board of directors

CERN





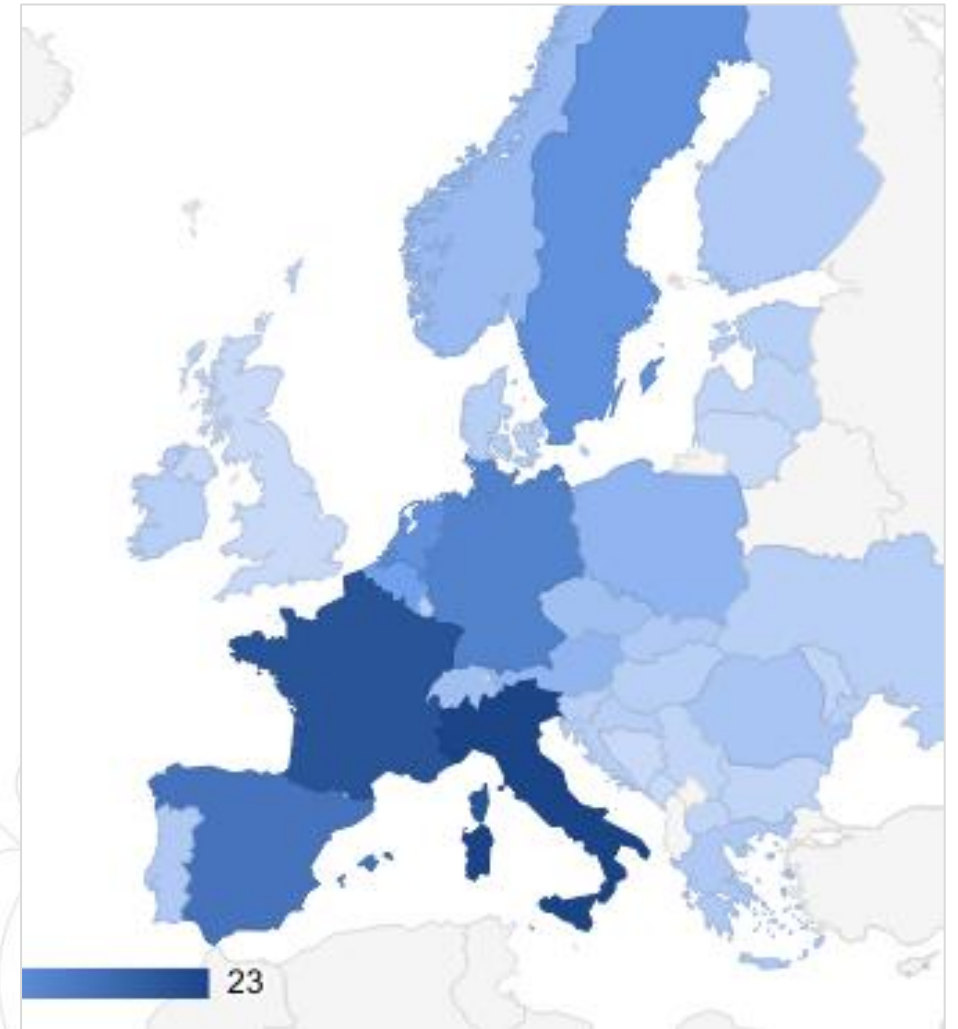
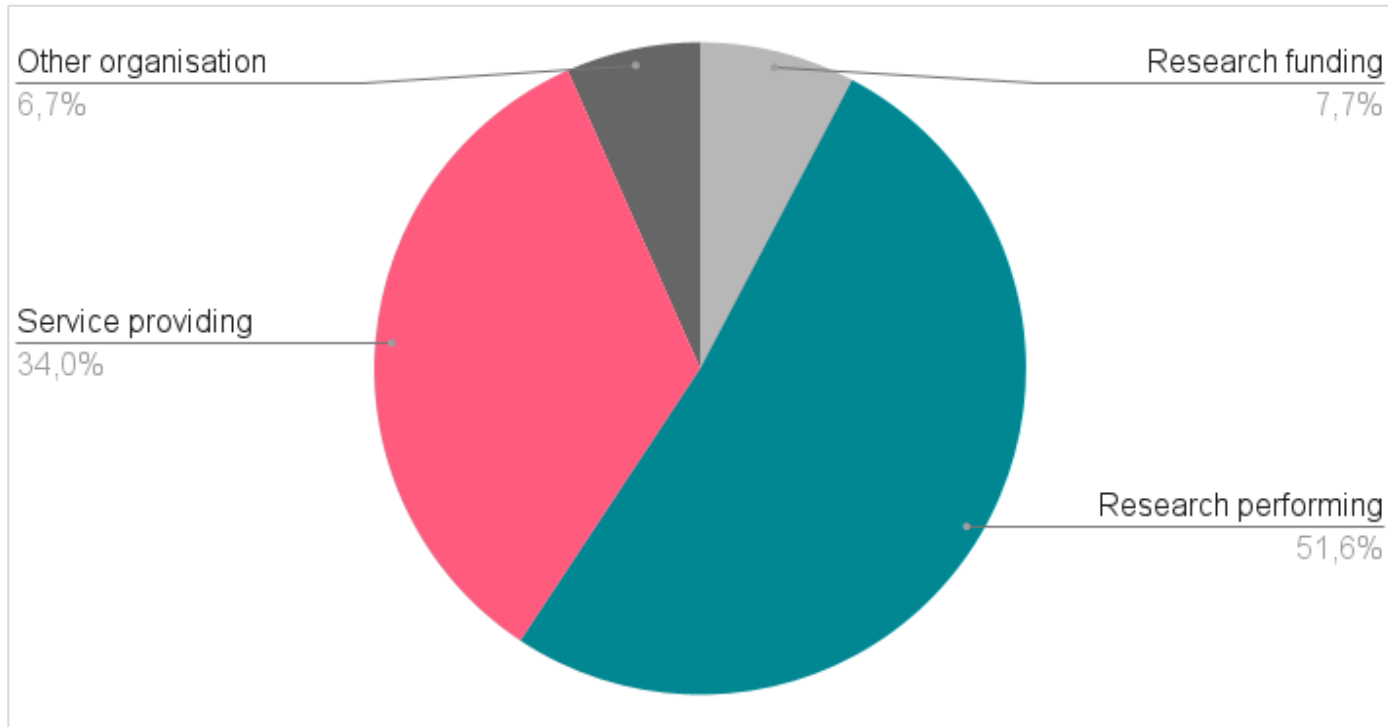
EOOSC Association – the Voice of the Community

General Assembly #6, 22-23 May 2023



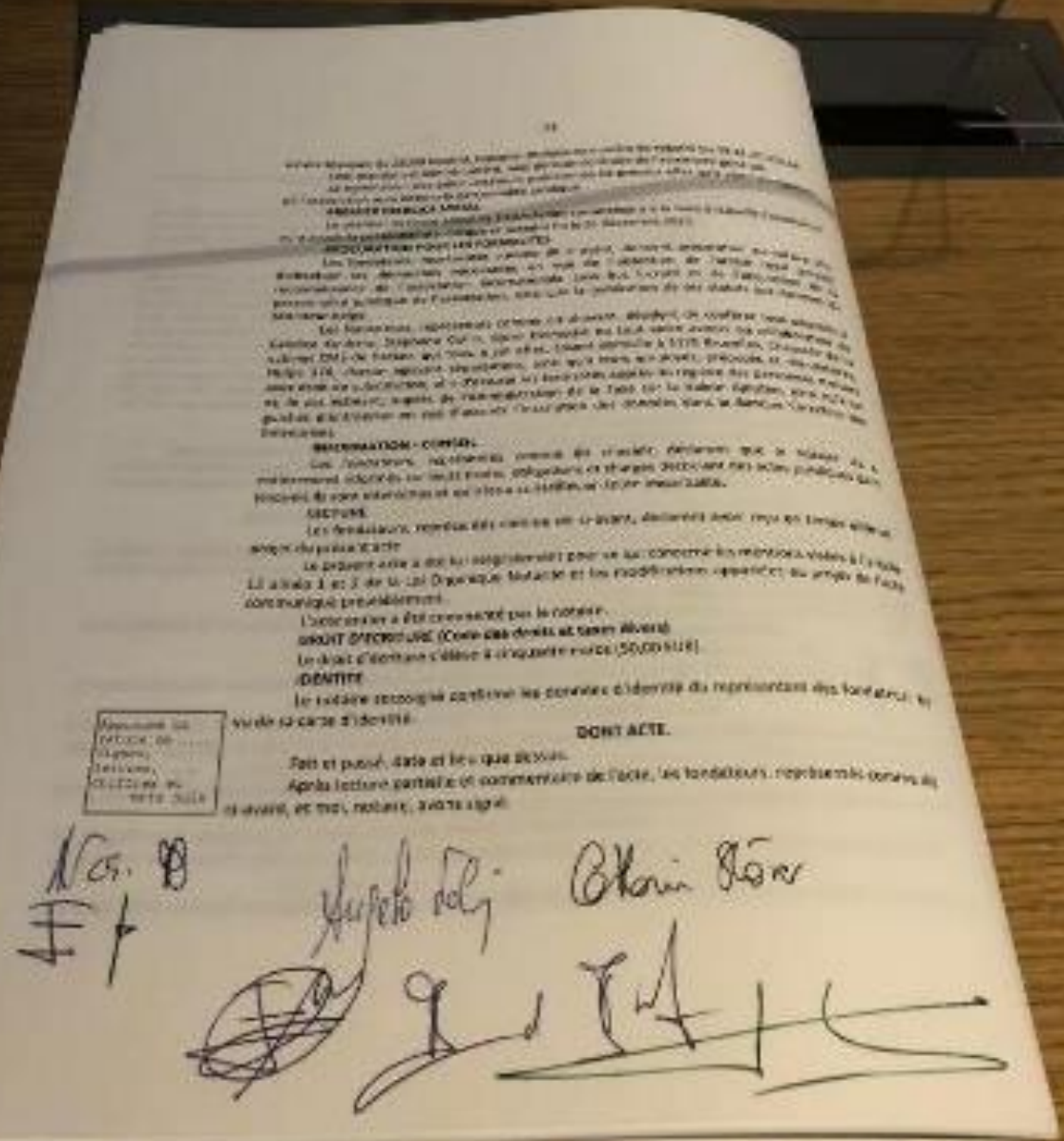
eosc 168 Members and 81 Observers

A strong memberbase



The Purpose of EOOSC-A Incorporation, 29 July 2020

- (1) to provide a single voice for the advocacy and representation of the broader EOOSC stakeholder community
- (2) to promote the alignment of European Union research policy and priorities with activities coordinated by the Association
- (3) to enable seamless access to data through interoperable services that address the entire research data life cycle



Horizon Europe co-programmed EOSC Partnership

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



eosc Collaborating Projects

eosc | FAIR-EASE

eosc | RAISE

eosc | cancer

eosc | FAIRCORE4EOSC

eosc | FAIR-IMPACT

eosc | EuroScienceGateway

eosc | AquaINFRA

eosc | Focus

AI4 | eosc

CRAFT-OA

eosc

Skiils
4 eosc

eosc

Blue-Cloud2026

A federated European FAIR and Open Research Ecosystem
for oceans, seas, coastal and inland waters

RDA TIGER

eosc

graspos
open research metrics dotospace

Scilake

eosc EOSC-A Brain-Pool: 13 Task Forces

Over 400 volunteers

Implementation of EOSC

- Rules of Participation compliance monitoring
- PID policy and implementation
- Researcher engagement and adoption

Technical challenges on EOSC

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

Metadata and data quality

- Semantic interoperability
- FAIR metrics and data quality

Research careers and curricula

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

Sustaining EOSC

- Financial sustainability
- Long-term data preservation



Strategic Research and Innovation Agenda



Open Science practices and skills are rewarded and taught, becoming the 'new normal'

Standards, tools and services allow researchers to find, access, reuse and combine results

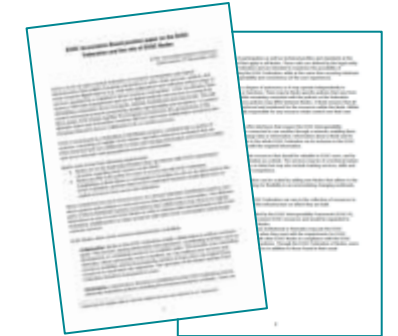
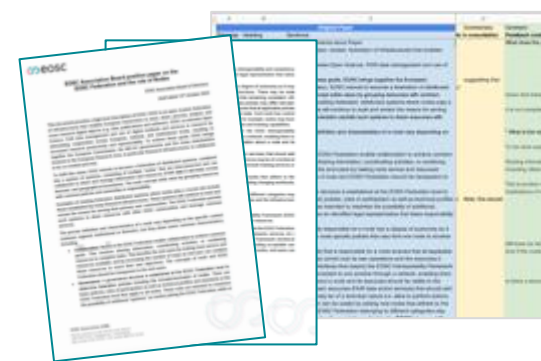
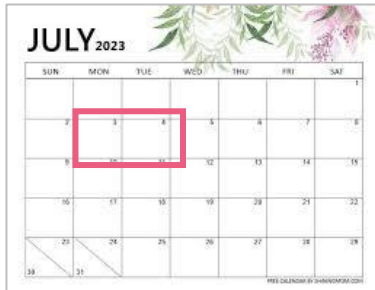
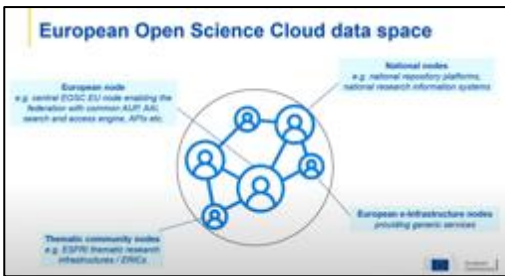
Sustainable and federated infrastructures enable open sharing of scientific results

Multi-annual roadmap sets priority activities and outcomes grouped by three implementation levels – European, National, Institutional

Three phases of MAR

- 2021-2022: development towards a functional federation of infrastructure
- 2023-2024: expansion to production that generates added value
- **2025-2027: expansion to develop impact from Open Science**

eosc Evolution of Node Concept



Spring

July

September

October

November

Introduction
EOSC EU Node
and concept of
Nodes by EC

Meetings with
Mandated
Organisations
and ESFRI RI
Working Group
to prepare
September
workshops,
03./04.07.

Community
Workshops
MOs & ESFRI RI
WG (08./15.09.)
Unconference
EOSC
Symposium
(21.09.)

Publication of
Draft Position
Paper on the
EOSC
Federation and
the role of
Nodes (13.10.)
&
Consultation

Publicatio
of revised version
of Draft
Position Paper
(12.11.)

Main points in the position paper

<https://eosc.eu/wp-content/uploads/2023/11/20231112-Short-paper-on-the-EOSC-Federation-draft-v3.pdf>

EOSC Federation

- is a federation of distributed systems ('system of systems')
- enables collaboration to achieve common goals and users to access additional resources beyond their usual environment
- has policies and rules defined by the legal entity governing the EOSC Federation
- consists of multiple "Nodes"
- can be scaled by adding more Nodes

EOSC Nodes

- contain resources adding value to the Federation
- act as the legal representative that can interact with EOSC's governance structure
- offer interfaces that comply with the EOSC Interoperability Framework
- control their own operations and resources and ensure that policies are followed within the Node
- may vary in their local policies, the resources to which they provide access and the infrastructure on which they are built

Initiatives (European, national, regional, institutional or thematic) may join the EOSC Federation and become EOSC Nodes when they meet the requirements listed above

Revised draft

- Text updated using the feedback received
- Some points received in the feedback go beyond what could be included in this short paper but must be considered when implementing the governance of the EOSC Federation
 - Legal representation
 - Scale of a node and necessary interfaces
- Feedback on the document can be submitted by e-mail to info@eosoc.eu, where it will be taken up for consideration by the EOSC-A Board of Directors. The deadline for feedback is **Sunday, 10 December 2023.**



eosc Further defining the EOSC Federation

- EOSC-A has drafted a paper defining the EOSC Federation and its building blocks, EOSC Nodes
- EOSC-A will continue to lead on shaping the definition of the EOSC Federation and the role of EOSC Nodes
- In 2024, EOSC-A intends to build on this paper to develop a handbook of operations* that provides policies, guidelines, recommendations and related procedures for the EOSC Federation
- Key to this evolution is the agreement on the future EOSC governance model (post 2027) and the access policies at the Federation level

**Elixir's Handbook of Operations provides a good reference model: <https://elixir-europe.org/about-us/governance/handbook-operations>*