EOSC: Ready for Open Research and Open Research Assessment?

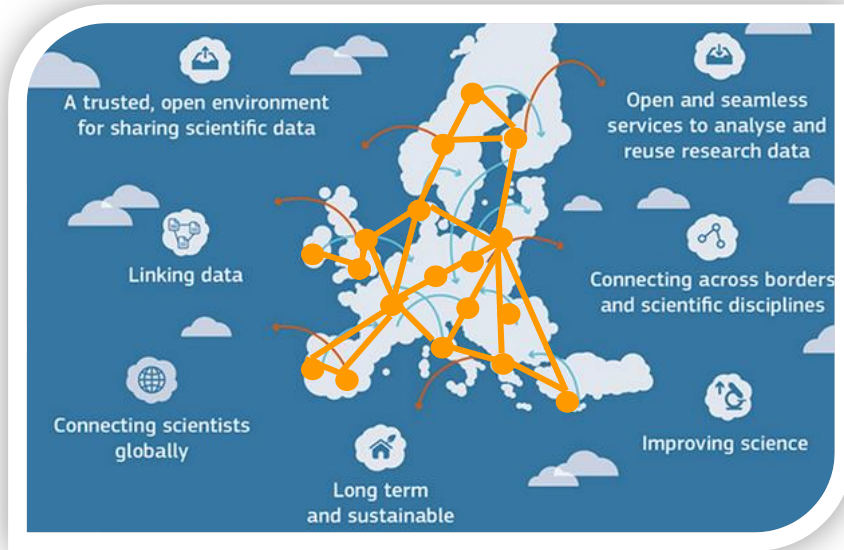*Klaus Tochtermann, 27. November 2021*

EOSC – Federated Infrastructure for RDM

A trusted, open environment for sharing scientific data

Linking data

Connecting scientists globally

Long term and sustainable

Open and seamless services to analyse and reuse research data

Connecting across borders and scientific disciplines

Improving science

Trusted Open Environment

Seamless Services for data analysis

Federating data repositories

…

Federated infrastructures are challenging

Connection of

- Quality Repositories
- Quality Software
- Technical Interoperability
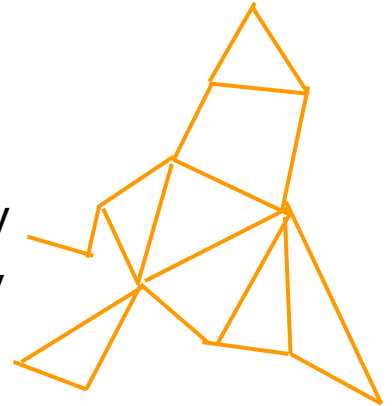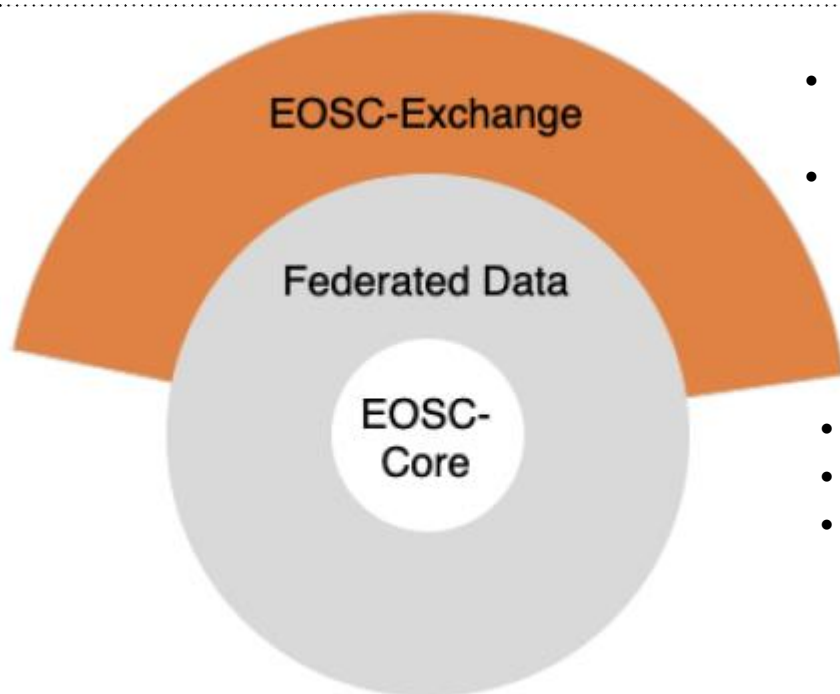- Semantic Interoperability
- (Metadata-)Standards
- FAIR Principles
- …

Image: www.digitalbevaring.dk

Minimum Viable EOSC

EOSC-Exchange

Federated Data

EOSC-Core

- **digital marketplace** to offer a set of services exploiting FAIR data and encouraging its reuse
- **services**, such as store, preserve, transfer, analyse

- **naming and locating** data and services
- **discovery** of and access to data and services
- **user identity** and access

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Get insights in EOSC

EOSC Future

is an EU-funded H2020 project that is implementing the European Open Science Cloud (EOSC). This EOSC will give European researchers access to a wide variety of research data and professionally provided services.

https://eoscfuture.eu/

EUROPEAN OPEN SCIENCE CLOUD

About   Services & Resources   Policy

EOSC Portal - A gateway to information and resources in EOSC

Home » Services & Resources

Services & Resources

Access physical & eInfrastructures

Aggregators & Integrators

Processing & Analysis

Security & Operations

Sharing & Discovery

Training & Support

Help Desk

Find EOSC Services that suit your use case yourself

https://eosc-portal.eu/

Financing of EOSC

- Co-programmed European Partnership (until 2030)
  - ➢ ~ 460 Mio Euro from EC (Horizon Europe)
  - ➢ ~500 Mio Euro from Member States (in-kind)

Management of EOSC-A

https://eosc.eu/

Ute Gunsenheimer
Designated Secretary General

Secretary General (as of Nov 1, 2021)
https://eosc.eu/staff/ute-gunsenheimer

Board of Directors

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Governance

Governance of the EOSC Partnership

Open Science Assessment in EOSC

Strategic Research and Innovation Agenda (SRIA)
of the
European Open Science Cloud (EOSC)
Version 1.0 15 February 2021

EUROPEAN OPEN SCIENCE CLOUD
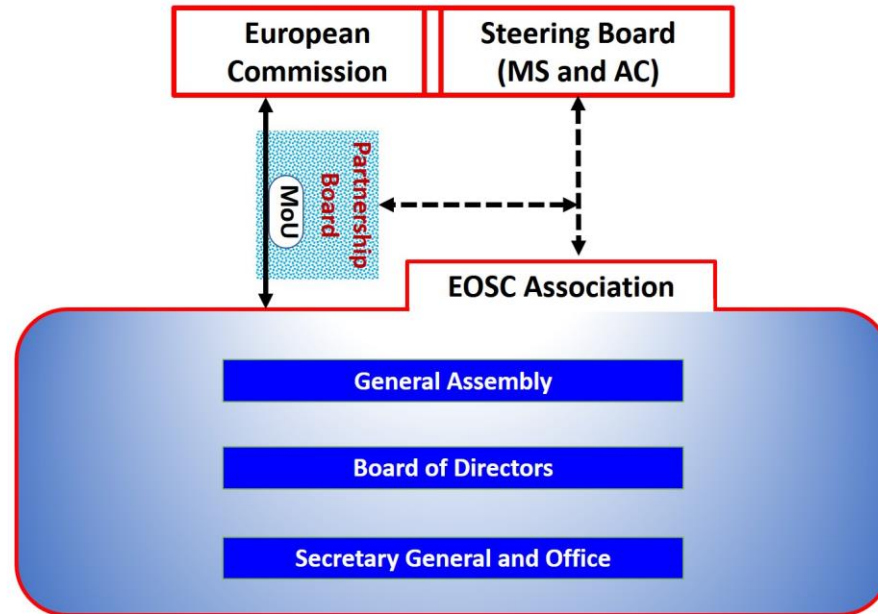
SRIA Objective	KPI	Target	Measure Direct (D) / Survey (S)
Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'	Percentage of publications from EOSC Association research-performing members that become immediate open access	70% by 2023	D
	Number of national education systems that recognise European curricula for data stewardship	5 by 2025	S
	Percentage of RPOs that are EOSC Association members that have data stewards to support their research	50% by 2025	S
	Percentage of EOSC Association members that recognise Open Science activities in research career assessments	50% by 2025	S

https://eosc.eu/sites/default/files/EOSC-SRIA-V1.0_15Feb2021.pdf

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Advisory Groups & Task Forces

https://www.eosc.eu/task-force-faq

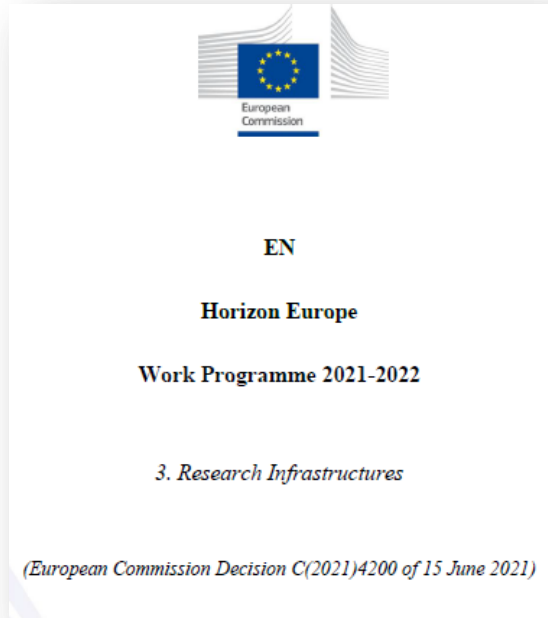| **Global Statistics of all TFs**				
Gender	**Total**	**Selected**	**Not Selected**	**Total %**
Male	349	275	74	64%
Female	196	166	30	36%
Prefer to self-d	3	3	0	1%
Total:	**548**	**444**	**104**	

- AG Implementation of EOSC
  - TF PID Policy and Implementation
  - TF Researcher Engagement and Adoption
  - TF Rules of Participation Compliance Monitoring
- AG Metadata and Data Quality
  - TF FAIR Metrics and Data Quality
  - TF Semantic Interoperability
- AG Research Careers and Curricula
  - TF Data Stewardship Curricula and Career Paths
  - TF Research Careers, Recognition, and Credit
  - TF Upskilling Countries to Engage in EOSC
- AG Sustaining EOSC
  - TF Defining Funding Models for EOSC
  - TF Long-Term Data Preservation
- AG Technical Challenges on EOSC
  - TF AAI Architecture
  - TF Infrastructure for Quality Research Software
  - TF Technical Interoperability of Data and Services

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Charter of TF Careers, Recognition, and Credit

- **Landscape analysis of existing high-level initiatives**, good practices and the outstanding needs … related to recognition and credit, and provide a gap analysis.

- **Provide recommendations** targeted to different stakeholders for improving recognition systems and credit.

- **Define a future monitoring strategy** for the implementation of recommendations and practices.

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Open Science Assessment in WP 2021-2022

EN

Horizon Europe

Work Programme 2021-2022

3. Research Infrastructures

(European Commission Decision C(2021)4200 of 15 June 2021)

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-3-research-infrastructures_horizon-2021-2022_en.pdf

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INFRA-2022-EOSC-01-01: Budget 6 Mio

This topic supports the development of EOSC-federated services and tools that allow the gathering and monitoring of information and data on the use and uptake of research outputs and of open science practices across borders and disciplines. Such tools and services are essential to collect the information to be used for next generation metrics[46], together with qualitative indicators, in an assessment system that valorises open science.

Services and tools should collect data on the different usages of research outputs such as data sets, models, software, etc., on the usage of EOSC services, research infrastructures, data platforms, etc., and on open science practices such as those identified in the context of the Open Science Policy Platform registry of pilots and implementations of responsible metrics[47] and the RDA Interest Group on Open Science Graphs for FAIR Data[48].

DBLP alone is not enough!

Relate to EOSC Services

Link up with initiatives such as I4OC!

Align with activities of the EOSC Partnership!!

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A personal perspective

https://openscienceretreat.zbw.eu/

- **We drown in open science metrics and indicators**
  … but we often do not understand what they mean

- **What do we want to measure?**
  - Who is a *good* open *scientist*? What is a *good* open *science institution*?
  - Is it only the researcher who reaches 100% in all open science indicators?

- **How comprehensive does the database need to be in order to carry out reliable measurements?**

Thank You!

Klaus Tochtermann, Oct. 27, 2021

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