



**MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE**

*Liberté
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 | Steering Board

EOSC STEERING BOARD PERSPECTIVE

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Participating in the Digital Transition: a necessity

- Fast increasing need for being able to treat (FAIR*) data, provide services and e-infrastructures for all scientific domains and across domains
- We entered the “[Digital Decade](#)”
- Progress is only possible if data (and services) are FAIR-by-design
- Sharing and concentration of resources is key (Human resources, e-infrastructures, financing, ...)



*FAIR : Findable, Accessible, Interoperable, Reusable

Digital Transition : how to proceed?

- Policies : development on national and international level
- Examples for policies at EU level : [Data Act](#), [Data Governance Act](#), [Digital Services Act](#), ...
- Example for policies at national level : [Piano Nazionale Scienza Aperta](#) (IT), [Plan National pour la Science Ouverte](#) (FR), US memorandum “[Ensuring Free, Immediate, and Equitable Access to Federally Funded Research](#)”
- [European Data Spaces](#) (Health, Industrial & Manufacturing, Agriculture, Finance, Mobility, Green Deal, Energy, Public Administration, Skills)
- EOSC as a European transverse data space

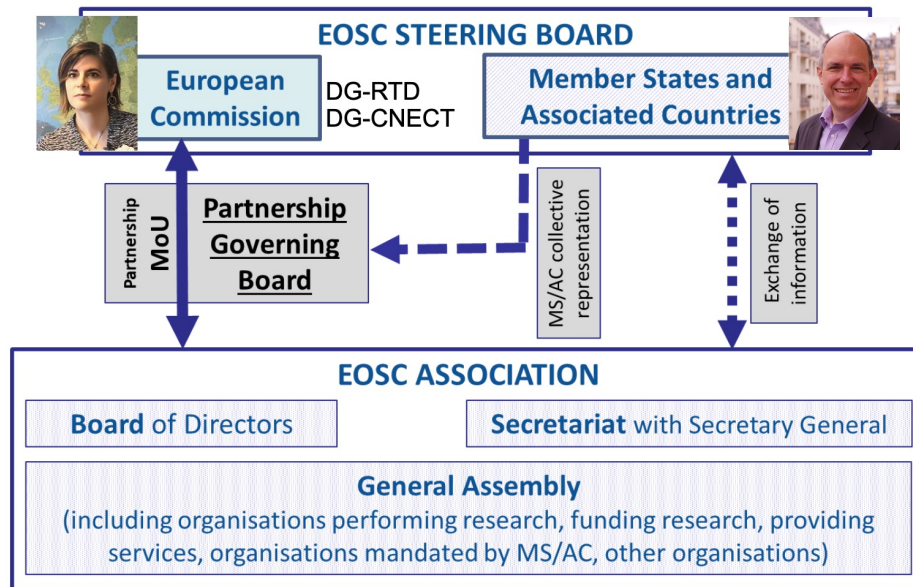
EOSC is a partnership

- One of 12 co-programmed partnerships under *Horizon Europe*
- 3 partners: European Commission, Member States, EOSC Association

Commitment by partners :

- European Commission : ~490 M€ in [Horizon Europe](#) (2021-2027) for EOSC
- [EOSC Association](#) : provide services (in-kind contribution) at a level \geq of the EU financing.
- Member states : **support the EOSC through policy development***, through **financing of infrastructures and organisations important for the EOSC**, and help in the coordination of EOSC at European level.

* for example : [Plan national pour la science ouverte 2021 - 2024 : vers une généralisation de la science ouverte en France](#)



EOSC Steering Board : Policies

- Transitions, e.g. making Open Science the new normal, need investment
- Participation by a large number of stakeholders: colleagues in labs / universities, research organisations, managements and infrastructures, governments, European commission
- Coordination needed
- National policies provide a frame and orientation for RPOs and RFOs
- National policies should influence investment decisions at national and regional level
- EOSC Steering Board: delegates of Horizon Europe 27 member states and 12 associated countries

RPO: Research Performing Organisation; RFO: Research Financing Organisation

EOSC Steering Board policy development

EOSC-SB continuously examine EOSC evolution, and which areas need to be supported through policy development

For 2022, 4 policy areas have been identified to be in the focus

- EOSC and data literacy
- EOSC and the commercial partners
- EOSC sovereignty on FAIR data
- Monitoring Open Science

EOSC Steering Board policy development



Opinion paper by the EOSC Steering Board expert group (E03756) on EOSC FAIR data literacy

Version 1.0 updated 2022-10-14¹

The EOSC Steering Board expert group² (EOSC-SB) has initiated an overarching analysis of the main disruptive concepts and practices connected to the construction and future operation of the EOSC.* The foreseen benefits of EOSC for European research and innovation require transformative practices in several domains covering from FAIR-by-design data collection technologies to FAIR data and service exploitation skills. The Specific issues were chosen by the Steering Board based on the perceived urgency/priority. Those are addressed individually in Opinion Papers drafted by the Policy sub-group,



Short term objective

The MS/AC of the EOSC-SB expert group will undertake all efforts necessary to achieve the following objective in the period of 2022-2024. By 2024

1. a concept for an effective collaboration between all sources of competence and know-how exists that may share the vision of an open science and innovation system benefiting society through research and economy.³

Recommendations

Recommendations for EOSC implementation on the European level

- 1) Recommends that the EOSC is developed to be a public good. In order to achieve this, the European public research sector shall remain the driving force behind the EOSC construction and future service provision, as unrestricted as possible towards other contributions at for-profit or international levels. This should be seen in the context of the sovereignty of public research partners in the EOSC context (see EOSC-SB opinion paper on FAIR data sovereignty in EOSC).
- 2) Recommends performing a SWOT analysis concerning the participation of commercial partners in

EOSC Steering Board policy development

- Opinion papers developed in 2022 by EOSC-SB (and its subgroup on policies)
- Background, objectives, recommendations (EU, national, institutional level)
- Papers finalised now for presentation at the EOSC-Symposium
- EOSC Steering Board condenses the 4 opinion papers into a short statement at the Symposium to help advance EOSC on European, national and institutional level.

EOSC Steering Board Survey: Motivation & Context

- Member states / associated countries (MS/AC) : support the EOSC through policy development, financing of EOSC-relevant infrastructures and organisations, help with the coordination of activities at European level
- in short: policies & financing

Motivation for monitoring :

- sharing of best practices : what works ? Can it be applied in other countries ?
- overview of actual investment
- demonstrate the commitment of MS/AC to EOSC providers
- monitor evolution
- motivate MS/AC to do better & more for the EOSC

EOSC-SB Survey in Context

"Open Science as the new normal" monitoring (with additional partners)

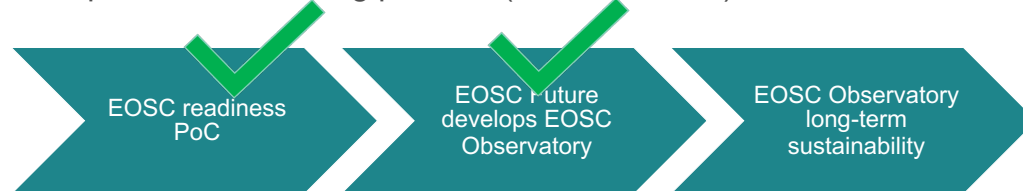
ERA ➤ High-level EOSC readiness KPIs	NPR ➤ Policy development to advance Open Science	EOSC SB ➤ National investments into EOSC ➤ Policy development to advance EOSC	EOSC Association ➤ In-kind contributions to the EOSC ➤ Members / non-members of EOSC A
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EOSC Observatory as collection, analysis, and presentation point of EOSC readiness

Development of KPIs (what to monitor):



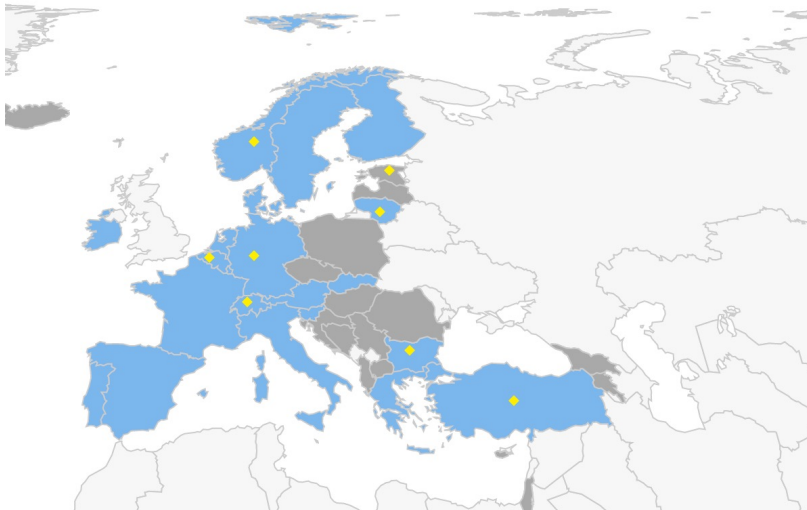
Development of monitoring platform (how to monitor):



EOSC-SB Survey 2021: first results

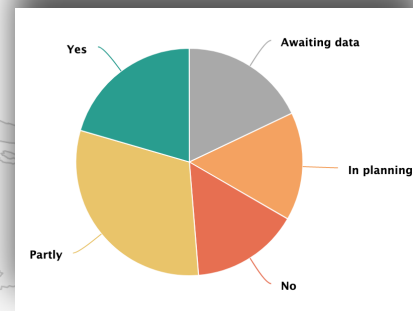
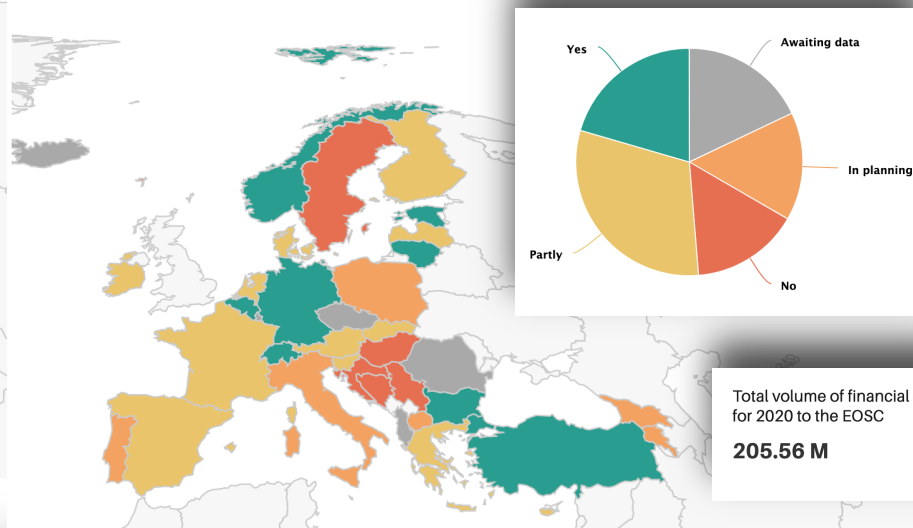
EOSC-relevant policies in place at national or regional level

There are one or more policies relevant for the EOSC in place



◆ Countries with financial strategies linked to the policy

Does the country have dedicated financial contributions to the EOSC ; linked to the policies?



Total volume of financial contributions for 2020 to the EOSC
205.56 M

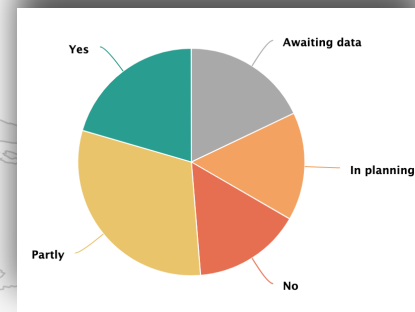
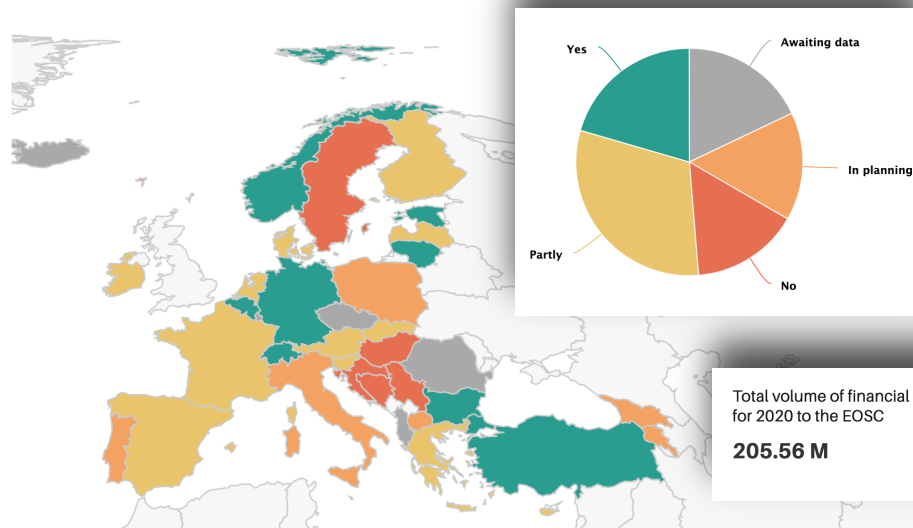
EOSC-SB Survey 2021: first results

EOSC-relevant policies in place at national or regional level

Policy in planning



Does the country have dedicated financial contributions to the EOSC ; linked to the policies?



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EOOSC Steering Board Survey: Next steps

- Report about first survey to be published for the [EOOSC Symposium](#) (14-17 November 2022)
- Extend to all aspects of Open Science (e.g. Open Access to publications, Citizen Science, ...)
- Clarify methodology for determining national financial contributions to EOOSC
- Continue to coordinate with other monitoring exercises to avoid overlaps (e.g. with EOOSC-Association survey)
- Favour pulling information over survey questions to be answered by EOOSC-SB members
- Accompany with EOOSC-SB statement to achieve Open Science goals

Indicators and implementation target by 2024	Implementation target on national or sub-national level	Institutional level		Share of countries having best practice use cases on Open Science
		Share of the country's RFOs	Share of the country's RPOs	
Policy on Open Access to publications	100% of MS/AC	100%	100%	100%
- on mandatory OA to publications	>75% of MS/AC	75%	75%	75%
- on immediate OA to publications	>50% of MS/AC	50%	50%	>30%
Policy on open data	100% of MS/AC	100%	50%	>30%
Policy on data management	100% of MS/AC	100%	50%	100%
Policy on FAIR data	100% of MS/AC	100%	100%	>30%
Policy on open source software	100% of MS/AC	50%	75%	100%