EOSC-PILLAR : A SUCCESS STORY

[Volker Beckmann](), co-chair [EOSC Steering Board]()

French Ministry for Higher Education and Research (MESR)

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

1

MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE
Liberté
Égalité
Fraternité

EOSC-Pillar in context

The EOSC Vision is relatively simple to explain:

• web of FAIR* research data and services

• access to FAIR research data, services and e-infrastructures for all European researchers

• Reuse and link existing FAIR data, services and e-infrastructures

• Think of the EOSC as an **interface**

• Free at point of use

But the implementation!

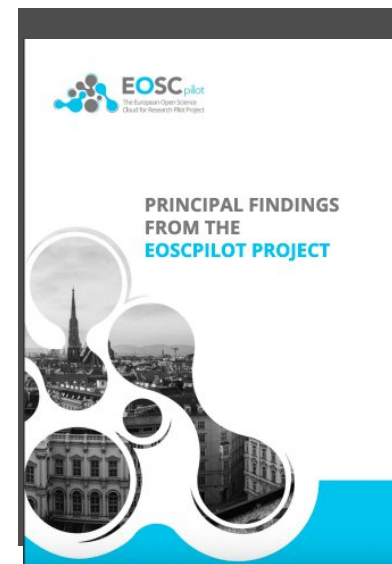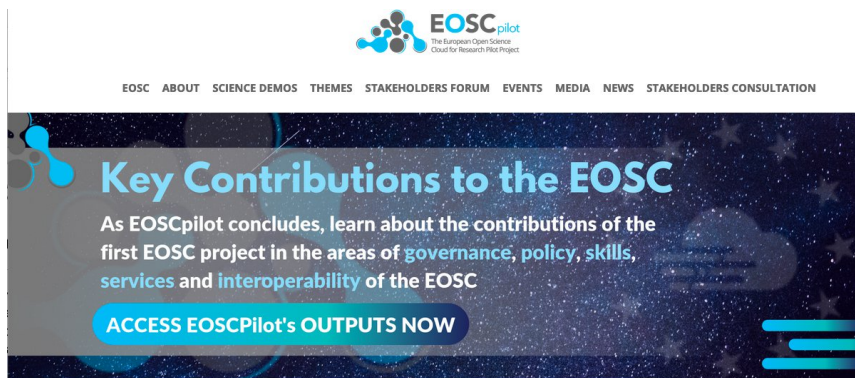*FAIR : Findable, Accessible, Interoperable, Reusable

Before EOSC-Pillar

2017 - 2019 : [EOSCpilot](#)

- ThinkTank for EOSC
- Science Demonstrators
- Recommendations (a lot of!)
- First community building

EOSCpilot WP6 meeting in Amsterdam, May 2018

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

3   25/10/2022

EOSC-Pillar proposal

2018: INFRAEOSC-05B call

- Analyse situation
- Coordination
- Structuration
- Enlarging community
- Country specific
- Best practices

Consortium building and proposal writing … not so easy …

Thanks to (not only but mainly) Federica, Fulvio and the colleagues from TrustIT

a successful proposal was written!

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

4

25/10/2022

Coordination and Harmonisation of National and Thematic Initiatives to Support EOSC

MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE
Liberté
Égalité
Fraternité

EOSC-Pillar

Complex start (lots of tasks, lots of partners/scientific domains)

Landscape analysis: National Initiatives Survey (2019)

Setting up the WPs, planning face-to-face meetings

EOSC-Pillar kick-off, Rome, July 2019

"National Initiatives" Survey:
Preliminary Analysis

Anita Bodlos, Lisa Hönegger, Lars Kaczmirek,
Volker Beckmann, Vincent Breton, Geneviève Romier,
Jos van Wezel, Achim Streit, Uros Stevanovic,
Fulvio Galeazzi, Federica Tanlongo,
Inge Van Nieuwerburgh

Corresponding Author: Lisa Hönegger, Email: info@aussda.at

This document contains preliminary results and
is designed for INTERNAL use only.
Please do not distribute or cite!

January 23, 2020

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

6   25/10/2022

EOSC-Pillar

Complex start (lots of tasks, lots of partners/scientific domains)

Landscape analysis: National Initiatives Survey (2019)

Setting up the WPs, planning face-to-face meetings

And then came Covid

EOSC-Pillar kick-off, Rome, July 2019

"National Initiatives" Survey:
Preliminary Analysis

Anita Bodlos, Lisa Hönegger, Lars Kaczmirek,
Volker Beckmann, Vincent Breton, Geneviève Romier,
Jos van Wezel, Achim Streit, Uros Stevanovic,
Fulvio Galeazzi, Federica Tanlongo,
Inge Van Nieuwerburgh

Corresponding Author: Lisa Hönegger, Email: info@aussda.at

This document contains preliminary results and
is designed for INTERNAL use only.
Please do not distribute or cite!

January 23, 2020

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

7   25/10/2022

EOSC-Pillar Success Stories

- Providing services in the context of Covid research
- Providing real solutions to make EOSC happen (AAI, on-boarding services, …)
- Working on and promoting use cases
- Guidelines, solutions, advice
- Structuring the EOSC communities in the 5 countries
- Integrating research communities into the EOSC ecosystem
- Coordination and Harmonisation to Support EOSC

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

8   **25/10/2022**

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

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

9   24/10/2022

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

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

10   **24/10/2022**

MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE
Liberté
Égalité
Fraternité

eosc | Steering Board

EOSC Steering Board policy development

EOSC-SB continuously examines 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

1) EOSC and data literacy

2) EOSC and the commercial partners

3) EOSC sovereignty on FAIR data

4) Monitoring Open Science

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

11   **24/10/2022**

MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE
Liberté
Égalité
Fraternité

eosc | Steering Board

EOSC Steering Board policy development

eosc | Steering Board

Opinion paper by the EOSC Steering Board expert group (E03756) on EOSC and commercial partners

Version 1.0 updated 2022-10-14[1]

The EOSC Steering Board expert group[2] (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, elaborated by the board, and communicated at tripartite level to become a living reference for the

eosc | Steering Board

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

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

12   24/10/2022

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.

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

13   **24/10/2022**

MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE
Liberté
Égalité
Fraternité

eosc | Steering Board

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
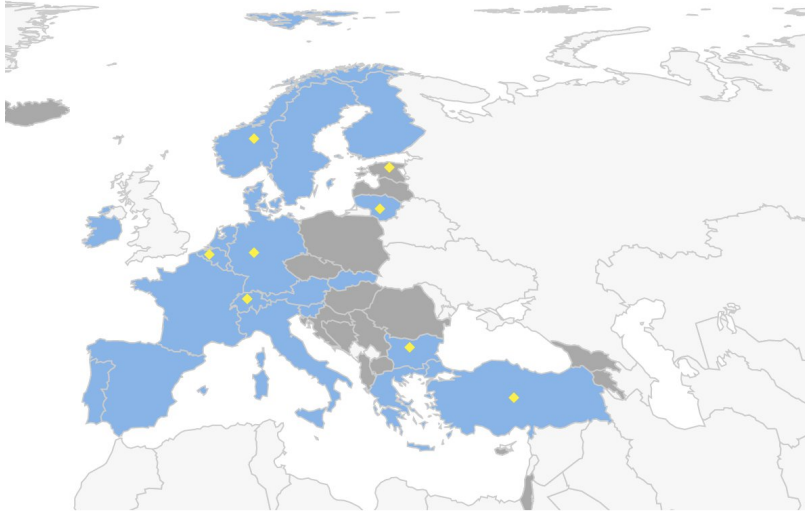- in short: policies & financing

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

**Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI),
Département Services et Infrastructures Numériques (A7)**

14   **24/10/2022**
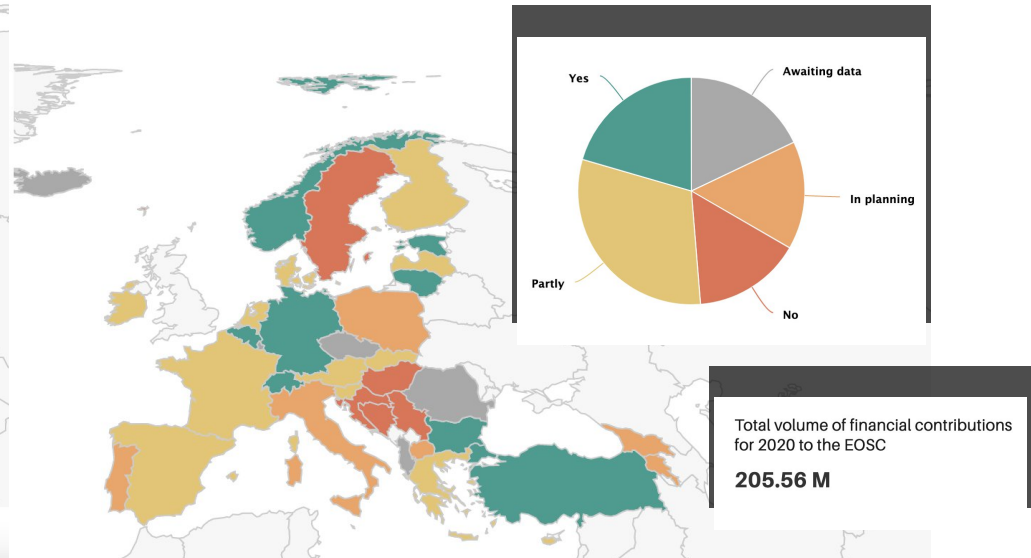
EOSC-SB Survey 2021: first results

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

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

15   24/10/2022

MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE
Liberté
Égalité
Fraternité

eosc | Steering Board

EOSC Steering Board Survey: Next steps

- Report about first survey to be published for the EOSC 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 EOSC
- Continue to coordinate with other monitoring exercises to avoid overlaps (e.g. with EOSC-Association survey)
- Favour pulling information over survey questions to be answered by EOSC-SB members
- Accompany with EOSC-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 - on mandatory OA to publications - on immediate OA to publications	100% of MS/AC >75% of MS/AC >50% of MS/AC	100% 75% 50%	100% 75% 50%	100% 75% >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%	25%	100%

Direction Générale de la Recherche et de l'Innovation (DGRI), Service de la Stratégie de la Recherche et de l'Innovation (SSRI), Département Services et Infrastructures Numériques (A7)

16   24/10/2022

EOSC-Pillar: a success story

- EOSC-Pillar marks a vital step for the path towards EOSC in Austria, Belgium, France, Germany and Italy.

- From its beginning, EOSC-Pillar was seen as most important by MESR for building up EOSC in France

- Main outcomes: a thorough analysis and recommendations for the development of EOSC, lots of use cases, and a strengthened EOSC community

- MESR congratulates the EOSC-Pillar community for its contributions, dedication, investments, and achievements!

volker.beckmann@recherche.gouv.fr