



EOSC-SB monitoring of national contributions to EOSC

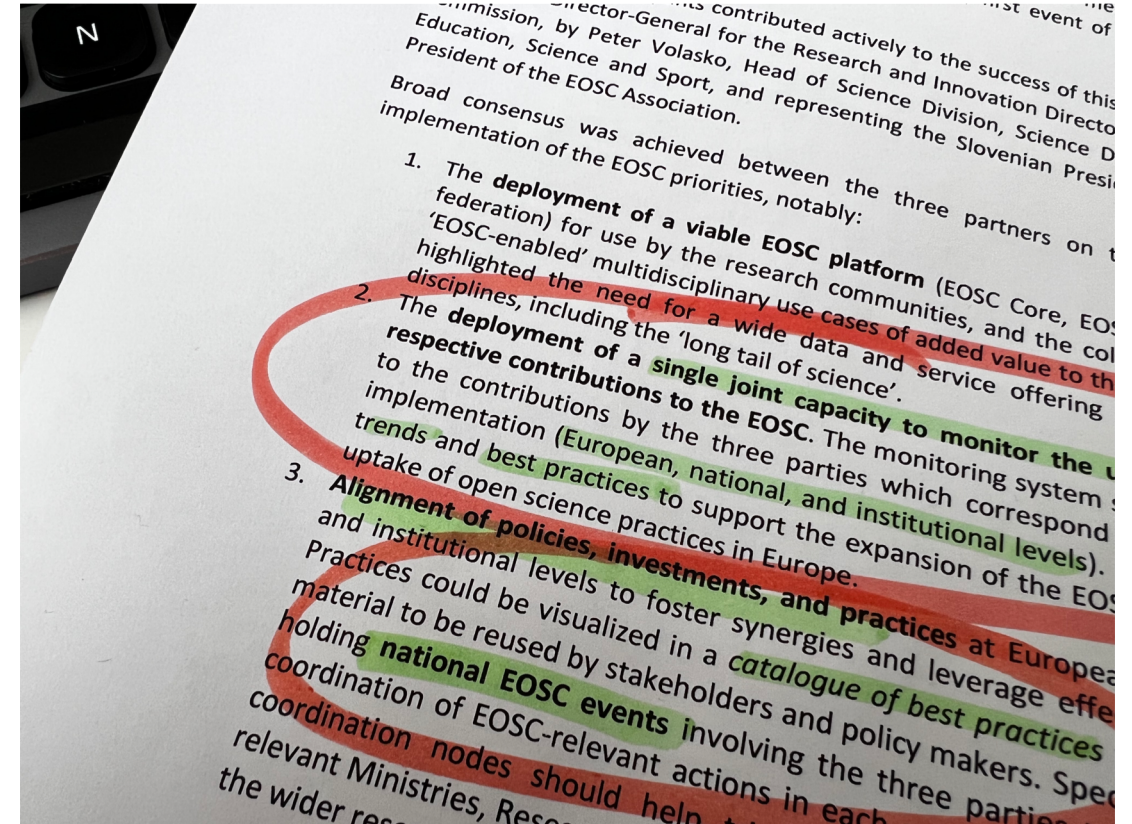
E-IRG workshop session 'Towards a sustainable EOSC'

A close-up photograph of the European Union flag, which is blue with twelve yellow stars arranged in a circle. The flag is waving in the wind, and a person's hand is visible at the bottom left, holding the flagpole. The background is a blurred green landscape with trees.

*Thomas Neidenmark, Policy Officer Unit A.4 'Open Science'
European Commission, Directorate-General for Research & Innovation*

EOSC tripartite governance event 2022 set the strategic direction

- The [public report](#) of the first EOSC tripartite event identifies 3 priorities in the coming years:
 - **deploying a viable EOSC platform** (EOSC Core, EOSC Exchange and EOSC Data federation) for use by research communities, and collecting and disseminating 'EOSC-enabled' multidisciplinary use-cases of added-value to researchers
 - deploying a **single joint-capacity to monitor** the uptake of Open Science and respective contributions to the EOSC
 - **aligning policies, investments, and practices** at European, national, federal, regional, and institutional levels to foster synergies and leverage the effects of the actions conducted



ERA Policy Agenda (2022-2024)

ERA Action 1:

Enable the open sharing of knowledge and the re-use of research outputs,

including through the development of the **European Open Science Cloud (EOSC)**



Outcome 1: Deploy the core components and services of EOSC and federate existing data infrastructures in Europe, working towards the interoperability of research data

Open Market Consultation 31/5 & 9/6:
<https://digital-strategy.ec.europa.eu/en/events/open-market-consultation-european-open-science-cloud-public-procurement-action>

Motivation: Provide all European researchers with seamless access to a rich portfolio of FAIR data and services in all relevant domains from data handling to computing, processing, analysis and storing.

What?

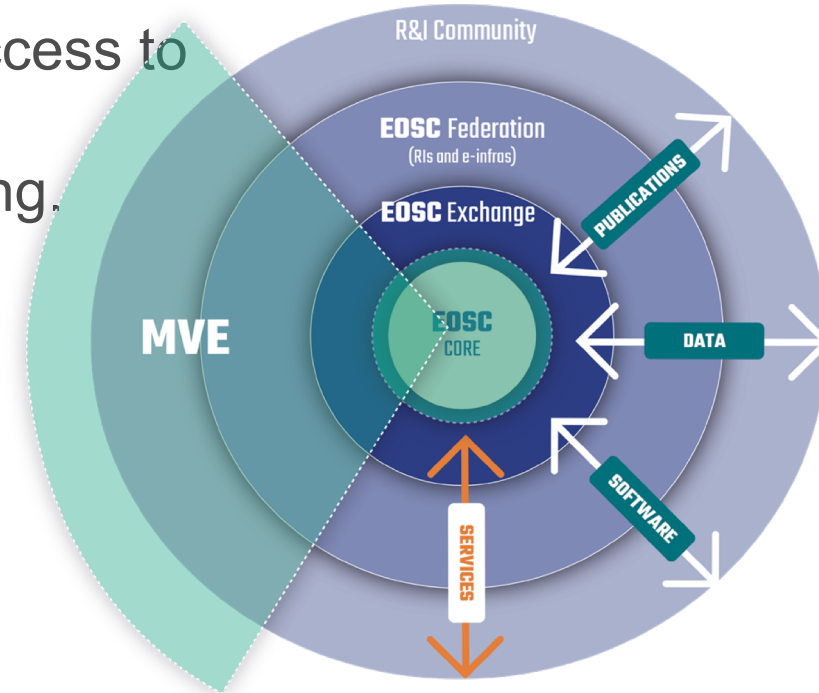
Procure an “*EOSC Core Infrastructure and Exchange platform*” with functionalities available 24/7:

- EOSC Core: technology platform and coordination functions
- EOSC Exchange: subset of horizontal services, data sources
- Hosting infrastructure, deployment, operations and management

Investigate *sustainability options* over the long-term

Research actions to *evolve the platform* and *advance the Web of FAIR research data*

Who? EC in consultation notably with the EOSC tripartite governance and the EOSC European partnership, MS and AC, EOSC Association, its members and Task Forces, HE INFRAEOSC community



Outcome 2: Establish a monitoring mechanism to collect data and benchmark investments, policies, digital research outputs, open science skills and infrastructure capacities related to EOSC

Motivation: Assess trends over time of the uptake of Open science practices across Europe. Elaborate or adjust policies. Avoid patchy, one-off surveys. Regular update of a single, validated database. Reliability. Accountability.

EOSC Observatory



What?

Four layers of data to support EOSC/Open Science monitoring in Europe:

1. **EOSC-readiness** by the **member states and associated countries** (national policies and investments to the EOSC via surveys co-defined with MS and AC);
2. **Progress of the EOSC European Partnership** along on its **Key Performance Indicators**;
3. **In-kind contributions** by the **EOSC Association and its members** to the EOSC partnership;
4. **Other Open Science practices**, policies, infrastructures, data and services in Europe.

Who? EC, MS, AC via the EOSC Steering Board, EOSC-Association, EOSC-Future project

Outcome 3: Deploy Open Science principles & identify best practices

Motivation: Open Science (OS) practices and skills become the ‘new normal’.

What?

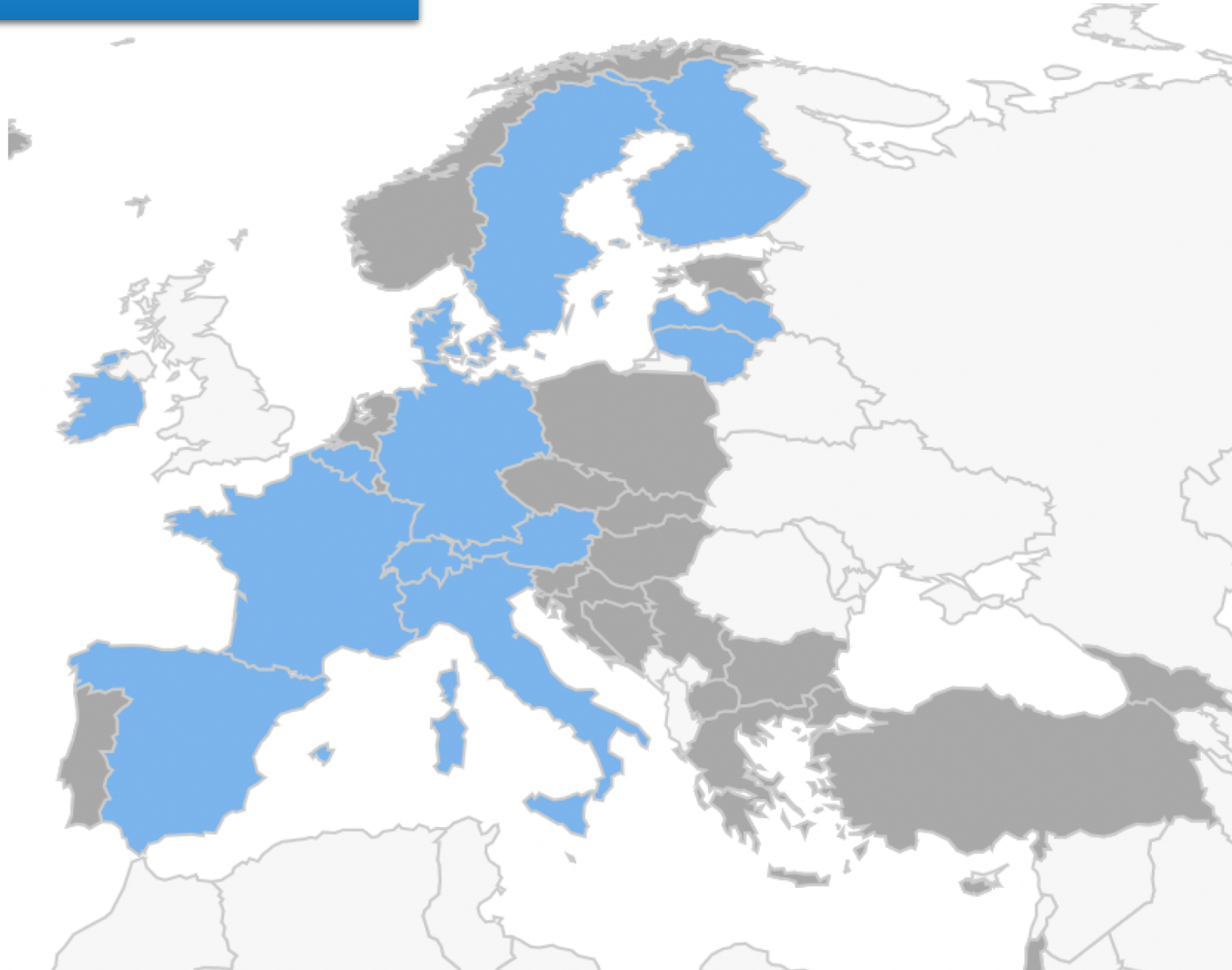
- *Mainstreaming OS across research funding programmes* (encourage OS practices as part of projects’ methodologies; reward OS practice as part of proposal evaluation);
- *EOSC services and tools underpinning a research assessment system* that incentivises OS practices: use of *Scientific Knowledge Graphs (SKGs)* and *PIDs* for easy tracking and citation of interconnected FAIR digital objects;
- *Policy support actions:* capacity-building for institutional OA publishing, institutional changes for practising OS responsible research, capacity-building for citizen science, OS training;
- *EOSC tripartite events* including ‘national EOSC events’ to intensify EOSC outreach and coordination of EOSC-relevant actions in each country and *catalogue of OS best practices*.

Who? EC, MS, AC in synergy with the EOSC-Steering Board, EOSC-A, HE beneficiaries

Monitoring EOSC readiness with the EOSC Observatory

<https://eoscobservatory.eosc-portal.eu/>

Policy explicitly mentions the EOSC



Monitoring EOSC readiness with the EOSC Observatory

<https://eoscobservatory.eosc-portal.eu/>

Infrastructures that include aspects of open science

2021 survey monitor 45

countries:

- 27 EU MS
- 12 AC
- 5 with Observer status in the EOSC-SB expert group
- 1 other country (CH)

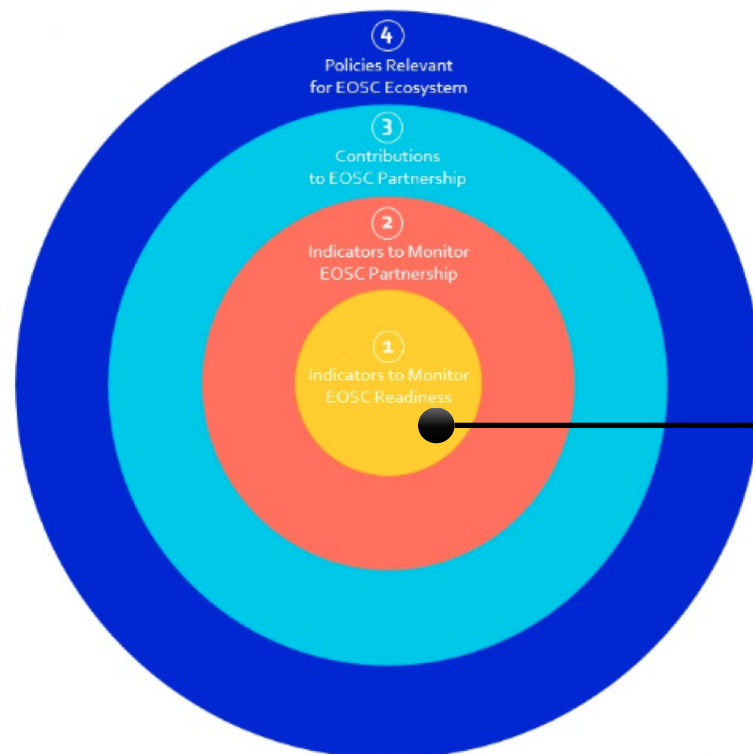
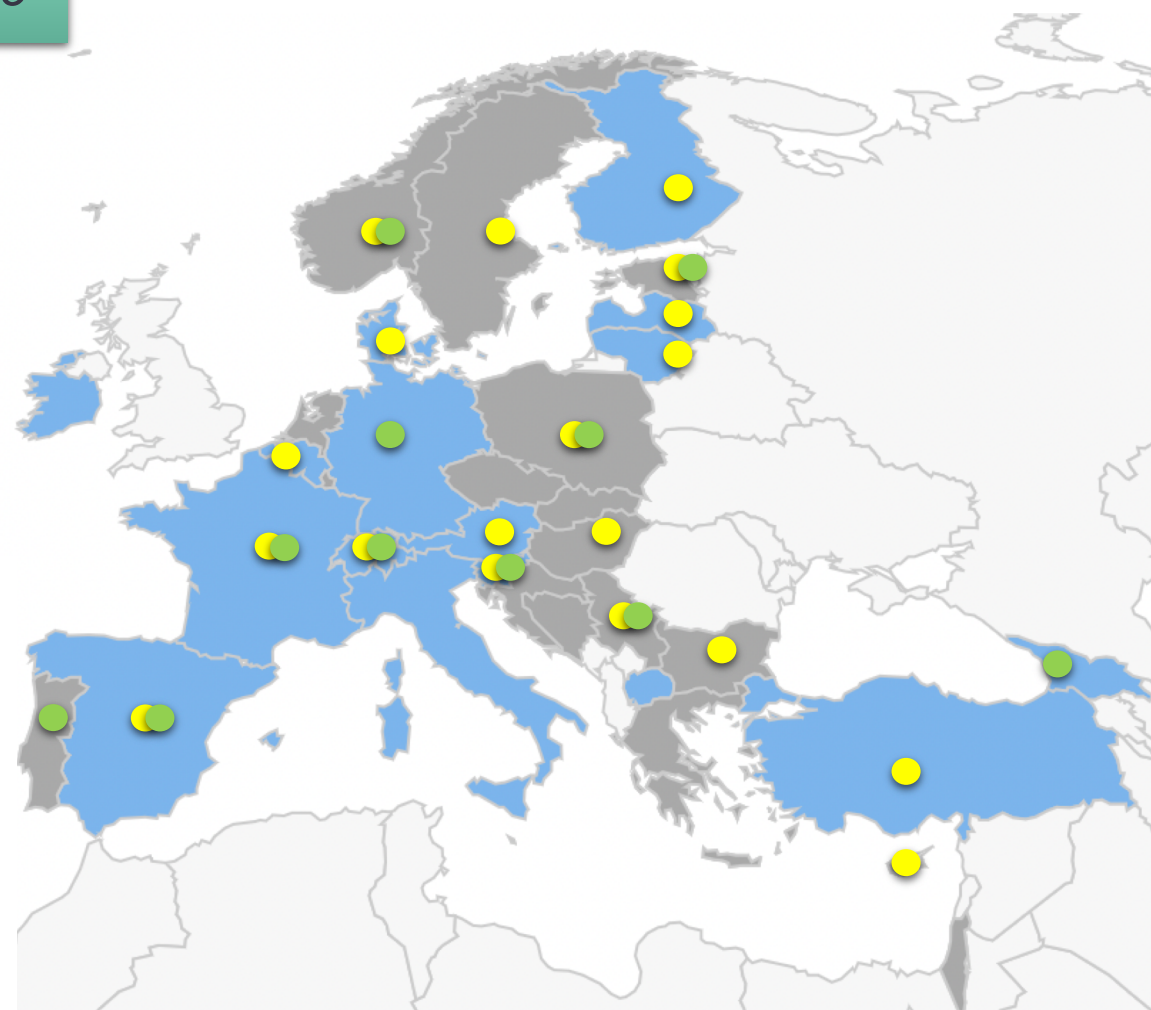


Figure 1: Four Layers of Data Collected by the EOSC Observatory

- Countries with national policy on RIs that include aspects of open science
- Countries with financial strategies for EOSC-relevant infrastructures
- Countries with use cases and best practices on RIs that include aspects of open science

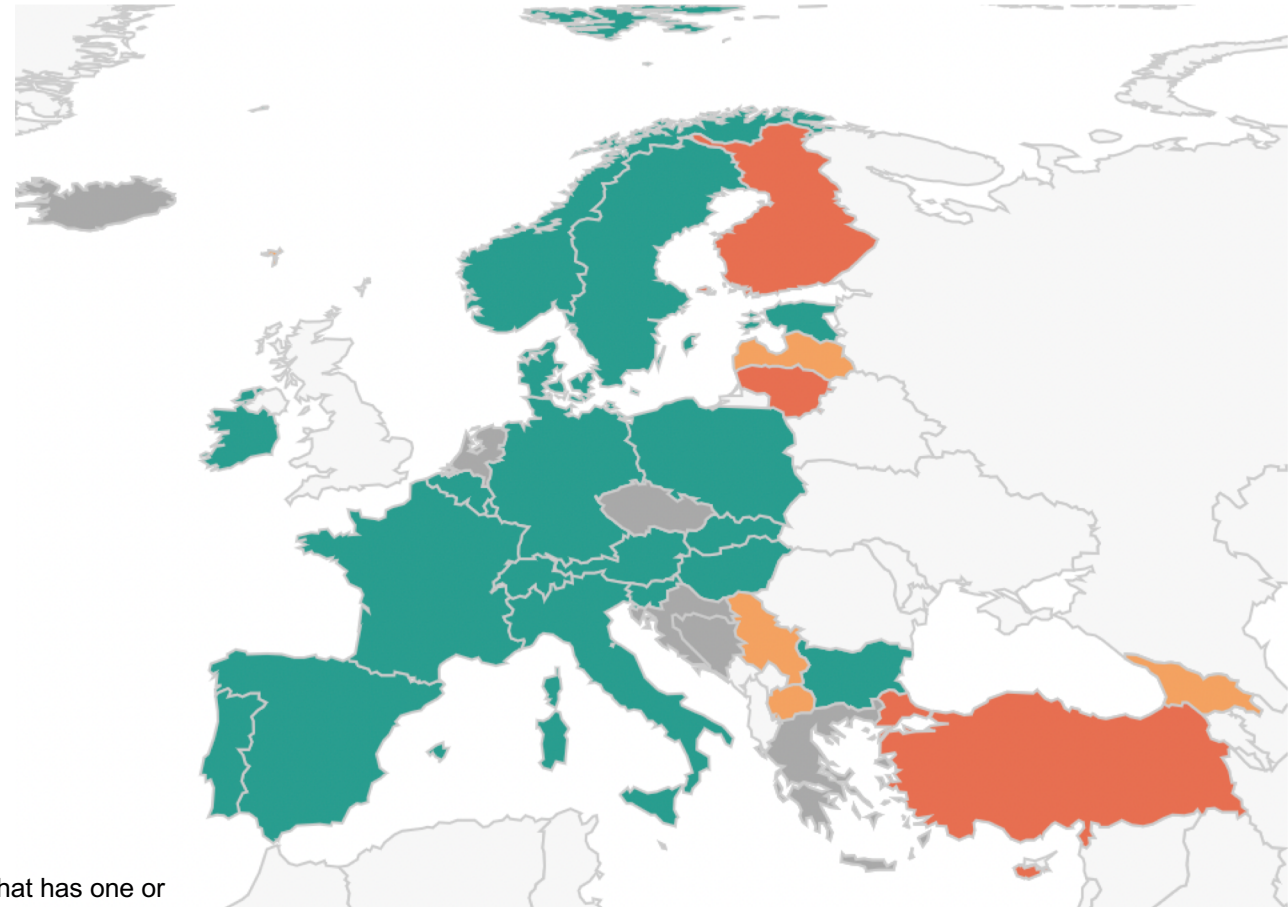


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Mandated organisations

-  Countries with an appointed **Mandated Organisation** from the EOSC-A members
-  Countries a Mandated Organisation in **planning**
-  Countries with **no** Mandated Organisation
-  Awaiting data



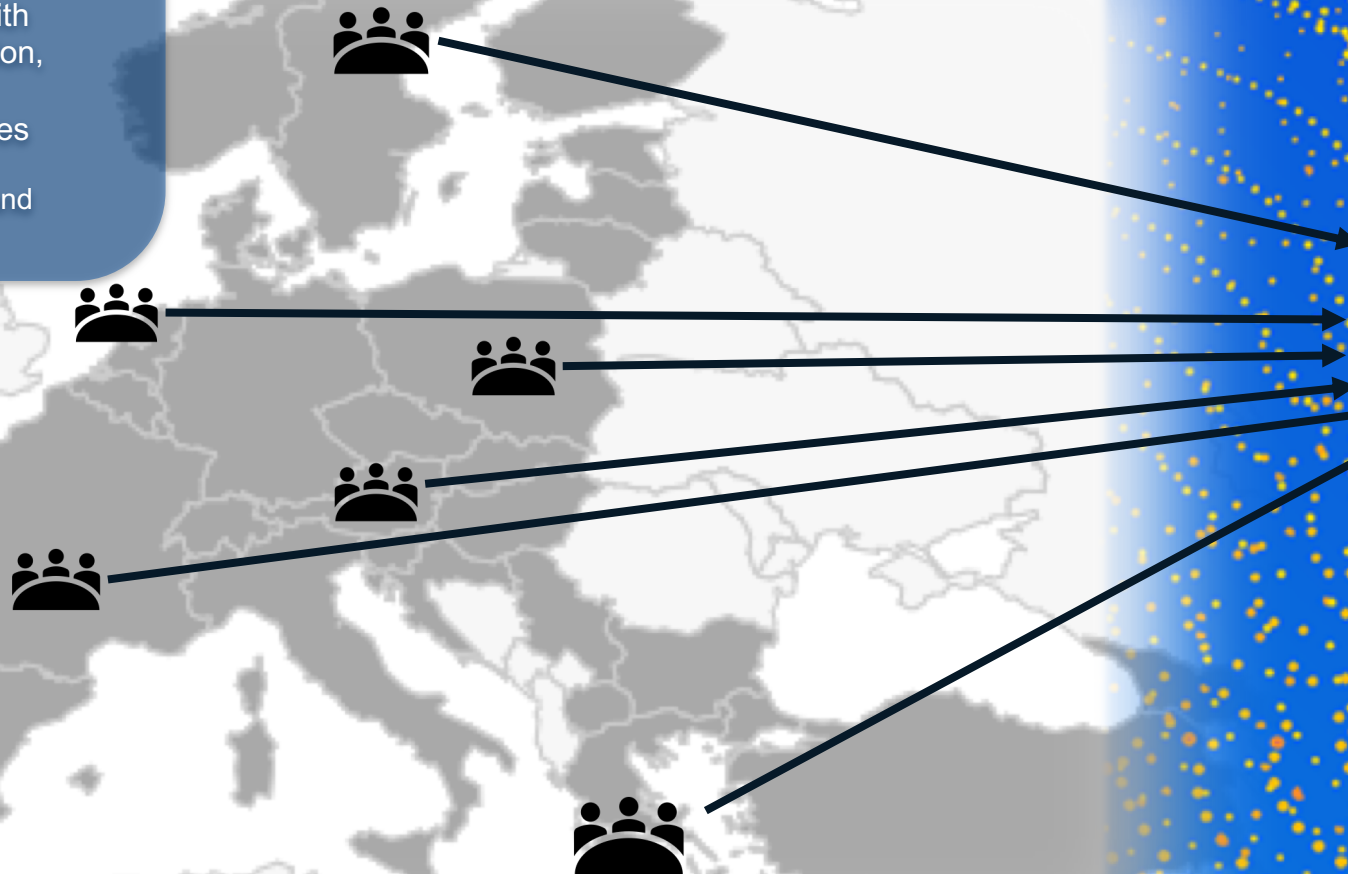
EOSC-A statutes (eosc.eu): "Each Member State or Associated Country that has one or more organisations that are Members of the Association may appoint one (1) Member to act as Mandated Organisation, to represent the national interests."

National EOSC Tripartite Events

In the national context the tripartite event can

1. structure exchange to align with EOSC
2. animate EOSC
3. incubate EOSC readiness
4. maintain dialogue with EOSC-SB/Commission, EOSC-A, national coordination structures

...to develop, implement, and improve the EOSC.



EOSC SYMPOSIUM 2022

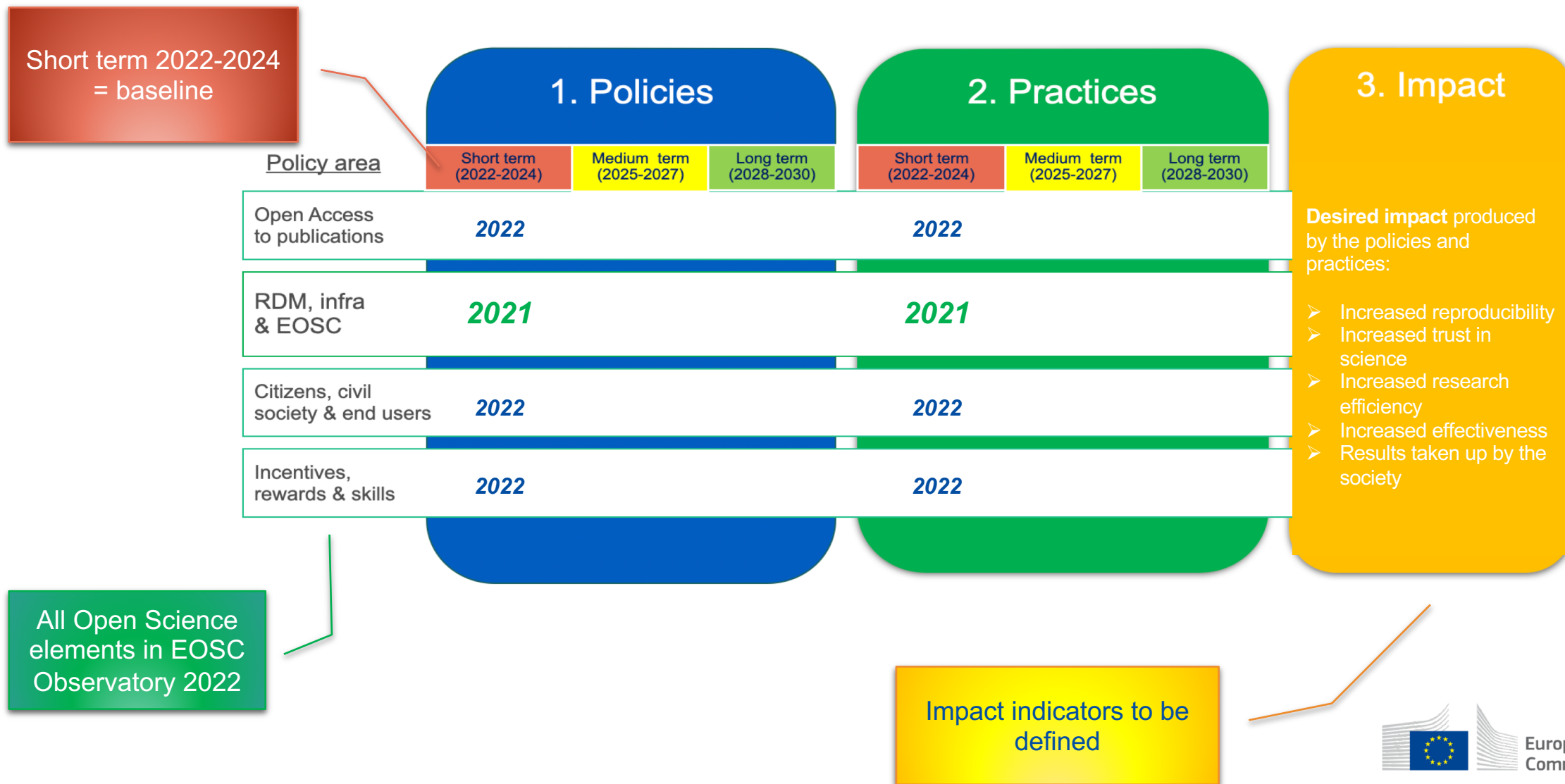
14 to 17 November

**EOSC Tripartite
Event**

<https://eosc.eu/tripartite-collaboration>

<https://events.eoscfuture.eu/Symposium2022>

EOSC-SB monitoring – next steps



Our vision for open science by 2030 is that the research is based on open collaborative work and the systematic sharing of knowledge and data as early and widely as possible in the process, where research digital objects are FAIR and open and reproducible, and citizens, civil society and end-users are involved in the co-creation of the R&I agendas and content.

Thank you



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