

**EOSC POLICY** brief

**call:** Horizon Europe call reference

**topic:** INFRAEOSC topic call reference

**Project:** Acronym followed by full project name

**PROJECT Web SITE:** Link to the project website.

**Grant number:**

**Date:**

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|  | SCOPE OF THE POLICY BRIEF |

This policy brief enables EU-funded projects contributing to the advancement of the European Open Science Cloud (EOSC) to report on progress and provide input for further policy analysis and development by the European Commission. This policy brief should be understood as complementary to the other mandatory reporting materials.

**Policy background**:

The European Open Science Cloud (EOSC) is a flagship EU initiative to deepen Open Science practices across the [European Research Area](https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/european-research-area_en) (ERA). As such it contributes to several actions of the [ERA policy agenda](https://research-and-innovation.ec.europa.eu/system/files/2021-11/ec_rtd_era-policy-agenda-2021.pdf) (in particular ERA action 1 & 8). EOSC is also recognised in the [European strategy for data](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1582551099377&uri=CELEX%3A52020DC0066) as the data space for science, research and innovation which shall be fully articulated with the other sectoral data spaces defined in the strategy.

Overall progress is steered by the EOSC tripartite governance involving the Union represented by the European Commission, the participating countries represented in the EOSC Steering Board and the research community represented by the EOSC Association. The second phase of development of EOSC (2021-2030) takes place in the context of the EOSC European co-programmed Partnership, which brings together the European Commission and the EOSC Association.

The [EOSC Strategic Research and Innovation Agenda](https://eosc.eu/sites/default/files/SRIA%201.1%20final.pdf) (SRIA) co-developed with the entire EOSC community sets 3 General Objectives (GO), 14 Operational Objectives (OO) and 14 Action Areas (AA).

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| General Objectives (GO):   1. Open science becomes the ‘new normal’, by ensuring that open science practices and skills are rewarded and taught. 2. Researchers can seamlessly find, access, reuse and combine results, through the definition of common standards and the development of related tools and services. 3. A federated infrastructure under community governance enabling open sharing of scientific results is deployed and sustained. | |
| Operational Objectives (OO):   1. Deliver and operate all the necessary components of the Minimum Viable EOSC to share openly research data, publications, software, tools and services while attracting increasing numbers and categories of users (public and private) (based on a governance structure representative of the various stakeholders and including domain-specific user environments supporting Open Science) by 2025; 2. Make monitoring systems to gather data and evidence on best Open Science practices accessible through EOSC (including the development of a dashboard to monitor the evolving landscape of policies, infrastructures and open resources made accessible via EOSC by 2023); 3. Increasingly mainstream Open Science skills in European research-performing organisations (RPOs) including through the uptake of curricula and training frameworks related to data stewardship through the lifespan of the Partnership; 4. Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership; 5. Provide the technical components of a FAIR ecosystem for uptake and customisation by the communities by 2023 (including open specifications, standards, schemas, application programming interfaces (APIs), metadata frameworks supporting FAIR digital objects and their automated processing); 6. Provide the metrics and tools to measure the adoption of the FAIR principles for research artefacts and provide frameworks to help in certifying that repository services enable FAIR in EOSC throughout the lifespan of the Partnership; 7. Co-develop a first generation of a robust pan-European network of infrastructures for software source code (including incentives for the effective documentation and sharing of research software) by 2025; 8. Co-design and adopt a Rewards and Recognition framework for FAIR and open data practices in research during the lifespan of the Partnership. 9. Implement and evolve the EOSC Rules of Participation and onboarding process for EOSC providers and increase the number of service providers and services offered progressively over the course of the Partnership. 10. Deploy and operate an authentication and authorisation infrastructure (AAI) framework to manage user identity and access by 2024; 11. Implement the EOSC persistent identifier (PID) policy and architecture by 2025; 12. Co-develop a minimum metadata framework and provide a common search and access mechanism to EOSC resources across the EOSC federation by 2025; 13. Continuously monitor and promote the increased uptake of core services and EOSC resources, access to EOSC Exchange tools and services and ensure a feedback loop with the users; 14. Define models for availability and costing of services across borders by 2023. | |
| Action Areas (AA) of a technical nature:   1. Identifiers 2. Metadata and ontologies 3. FAIR metrics and certification 4. Authentication / authorisation infrastructure 5. User environments 6. Resource provider environments 7. EOSC Interoperability Framework | Action Areas (AA) related to boundary conditions:   1. Rules of Participation 2. Landscape monitoring 3. Business models 4. Skills and training 5. Rewards and recognition 6. Communication 7. Widening to public and private sectors  and going global |

More information can be found from:

* <https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/open-science/european-open-science-cloud-eosc_en>
* <https://digital-strategy.ec.europa.eu/en/policies/open-science-cloud>
* <https://eosc.eu/eosc-about>

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|  | Feedback on progress and policy recommendations (max 6P) |

1. Overview of contributions in relation to the EOSC policy and EOSC SRIA objectives. Please briefly describe the main contributions of the project so far in relation to the General Objectives (GO) of the EOSC SRIA. As far as possible, please indicate the relation between each contribution and the most relevant Operational Objective(s) (OO) and Action Area(s) (AA) of the EOSC SRIA.

*Example*: *AA3 - OO7 - OO13: Project contribution … Link to deliverable (if applicable)*

(Further information and context can be found in sections 5, 6 and 8 of the [SRIA](https://eosc.eu/sites/default/files/SRIA%201.1%20final.pdf))

1. Key contributions subject to wider dissemination by the European Commission. Describe in more details the key contributions of your project *which you judge ready for wider dissemination* amongst the EOSC community. Typical examples include inspiring EOSC use cases, guidelines, toolkits, services, policies and good practices supporting any of the 3 EOSC Strategic Objectives. For each reported use case, please indicate to which of the following categories it best relates to:
   1. Assessment (eg incentives/rewards for researchers to practise open science[[1]](#footnote-1))
   2. Data (eg research data management and research data that are open and/or follow the FAIR principles)
   3. Engagement (eg research that engages and involves citizens via citizen science)
   4. Infrastructure (eg data repositories, data stewardship, preservation of research outputs)
   5. Publications (eg research publications that are available in open access, licencing of publications, retention of IPR for publications)
   6. Services (ie services that enable research output discovery and exploitation, e.g. services for the execution of research workloads and code or for the visualisation, analysis, and sharing of research data)
   7. Skills/training (skills and training for researchers to practise open science)
   8. Software (eg open source software)
2. Synergies with other stakeholders. If policy relevant, please describe the interactions and synergies of your project with other EOSC stakeholders (e.g. the EOSC-Association, other EU-funded projects, national authorities, research infrastructures and e-Infrastructures or others), with related international initiatives or with the communities involved in the development of the other data spaces of [the European data strategy?](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1582551099377&uri=CELEX%3A52020DC0066)
3. EOSC challenges and lessons learnt of a policy nature. Please briefly describe the main challenges that your project encountered regarding technical development, cooperation, support, dissemination and/or exploitation of the project’s deliverables into the EOSC context. Do you have policy recommendations to help addressing these challenges?
4. Link to other EU policy priorities (beyond EOSC). Is your project contributing to advance other policy priorities of the EU (e.g. [Horizon Europe Missions](https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/eu-missions-horizon-europe_en), Sustainable Development Goals, EU sectoral policies or others)? In case of positive reply, please list those EU policy priorities and explain briefly the nature of the project’s contributions.

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|  | Sustainability and Legacy (MAX 1P) |

This section should be filled only by projects in their final reporting period.

Indicate how the main project’s outputs could be further maintained, supported and integrated in the broader EOSC federation after the end date of the project.

1. See also https://coara.eu/ [↑](#footnote-ref-1)