



**EUROPEAN OPEN  
SCIENCE CLOUD**

European Open Science Cloud  
EOSC



**NI4OS-Europe**

National Initiatives for Open Science in Europe

# EUROPEAN OPEN SCIENCE CLOUD

The idea of a European Open Science Cloud (EOSC) took shape in 2015, as a vision of the European Commission of a large infrastructure to support and develop open science and open innovation in Europe and beyond.

The EOSC is projected to become a reality in 2020 and will be Europe's virtual environment for all researchers to store, manage, analyse and re-use data for research, innovation and educational purposes.



The elements for the success of EOSC are: open, publicly funded and governed, research centric, comprehensive, diverse & distributed, interoperable, service-oriented and social.

According to the EOSC strategic implementation plan, the components of EOSC, is to “build the necessary trust for wide deployment among a large variety of research communities, so it is essential that the development of EOSC follows principles that will drive its implementation”.

# GOVERNANCE STRUCTURE

## EOSC Governance Board

All 28 Member States and 10 associated countries have delegates appointed to:

- approve the list of the Executive Board members;
- decide the strategic orientations for the EOSC (based on the advice of the Executive Board) and approving an annual work plan;
- assess the progress of the EOSC implementation;
- ensure coordination with relevant Member States/Commission initiatives;
- discussing new activities in support of the EOSC, including its long-term sustainability.

## EOSC Executive Board

8 representatives of Pan-European research e-infrastructures plus 3 individual experts, nominated by the EC to:

- Provide advice and support on the strategy, implementation, monitoring and reporting on the progress of the implementation of the EOSC as set out in the Staff Working Document on the Implementation Roadmap (SIP) for the EOSC, notably in the form of:
  - a strategic implementation plan and annual work plans, and of a proposed mechanism for overseeing and steering the implementation of the strategic and annual work plans, and for monitoring and reporting on progress;
  - rules for participation to guide service provision and an action plan for scientific data interoperability to operationalise the FAIR principles.
- Provide recommendations on the appropriate mechanisms and possible forms for the EOSC governance after 2020 including business models and modes of financing, and on how the user base of the EOSC could be extended to the public sector and the industry.

## EOSC Working Groups

An official part of the EOSC Governance structure is the 6 Working Groups, that will ensure a community-sourced approach to the current challenges of the EOSC. In addition, task forces have been set up to cover topics which are largely in line with the EOSC Working Groups: Landscaping, Training, Service Onboarding, Dissemination and Skills.

# THE FUTURE OF EOSC

## EOSC Governance - Association

The EOSC Partnership will enable a trusted, virtual, federated environment in Europe to store, share and re-use research data across borders and scientific disciplines. It will bring together institutional, national and European initiatives and engage all relevant stakeholders to co-design and deploy a European Research Data Commons where data are Findable, Accessible, Interoperable and Reusable (FAIR). This European contribution to a “Web of FAIR Data and Related Services for Science” will enhance the possibilities for researchers to find, share and reuse publications, data and software, leading to new insights and innovations, higher research productivity and improved reproducibility in science.



[EOSC European Partnership Proposal \(Draft\), 28 May 2020](#)

- The Partnership will operate through EOSC Association (AISBL), based in Belgium, along the principles of decentralisation, transparency and openness.
- Core tasks: Coordination and alignment (SRIA), Monitoring and reporting, EOSC technical guidance, FAIR training, Communication.
- The Association will be essentially resourced via the membership fees. The activities resulting from the SRIA will be resourced through commitments by the European Commission, at European level, and by the members of the Association at national and institutional level.

# GLOSSARY

## EOSC Portal

The EOSC Service implementing a web portal facilitating the access to and use of the EOSC Resources.

## EOSC Portal Catalogue and Marketplace

Integrated platform that allows easy access to lots of services and resources for various research domains along with integrated data analytics tools.

## EOSC Service Definition

An EOSC Resource implemented by the EOSC System to provide EOSC System Users with ready-to-use facilities. EOSC Services are supplied by an EOSC Service Provider in accordance with the EOSC Rules of Participation for EOSC Service Providers. EOSC Services are approved by the EOSC Service Portfolio Management Committee and populate the EOSC Service Portfolio and the EOSC Service Catalogue.

## EOSC Service Catalogue

The list of all live EOSC Services that can be requested by EOSC System Users. It is a subset of the EOSC Service Portfolio and it populates the EOSC Service Registry.

## EOSC Service Portfolio

The internal list of EOSC Services including those in preparation, live and discontinued. The development of this list is controlled by the EOSC Service Portfolio Management Committee.

## EOSC Service Provider

An EOSC System Manager managing and delivering an EOSC Service.

## Third-party Service Provide

An EOSC End-user willing to develop and operate a service by relying on one or more EOSC Services.

## EOSC EOSC Rules of Participation

The principles defined by the EOSC Governance to drive the processes enacting an actor to play the role of EOSC System User (and any specialization of it).

## Underpinning Agreement

A documented agreement between an EOSC Service Provider and an EOSC Supplier that specifies the underpinning EOSC Service Component(s) to be provided by the EOSC Supplier, together with the related service targets.

# RESOURCES

- Official European Commission documents and steps towards the creation of EOSC: <https://ec.europa.eu/research/openscience/index.cfm?pg=open-science-cloud>
- EOSC strategic implementation plan: [https://ec.europa.eu/info/publications/european-open-science-cloud-eosc-strategic-implementation-plan\\_en](https://ec.europa.eu/info/publications/european-open-science-cloud-eosc-strategic-implementation-plan_en)
- EOSC Portal: <https://eosc-portal.eu/>
- Factsheet, Open science: [https://ec.europa.eu/info/files/open-science\\_en](https://ec.europa.eu/info/files/open-science_en)
- EOSC Glossary: <https://www.eosc-portal.eu/glossary>
- EOSC Declaration: [https://ec.europa.eu/research/openscience/pdf/eosc\\_declaration.pdf#view=fit&pagemode=none](https://ec.europa.eu/research/openscience/pdf/eosc_declaration.pdf#view=fit&pagemode=none)
- EOSC Action List: [https://ec.europa.eu/research/openscience/pdf/eosc\\_declaration-action\\_list.pdf#view=fit&pagemode=none](https://ec.europa.eu/research/openscience/pdf/eosc_declaration-action_list.pdf#view=fit&pagemode=none)





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