



**EUROPEAN OPEN
SCIENCE CLOUD**

BUILDING

**the EUROPEAN
OPEN
SCIENCE
CLOUD**



Disclaimer

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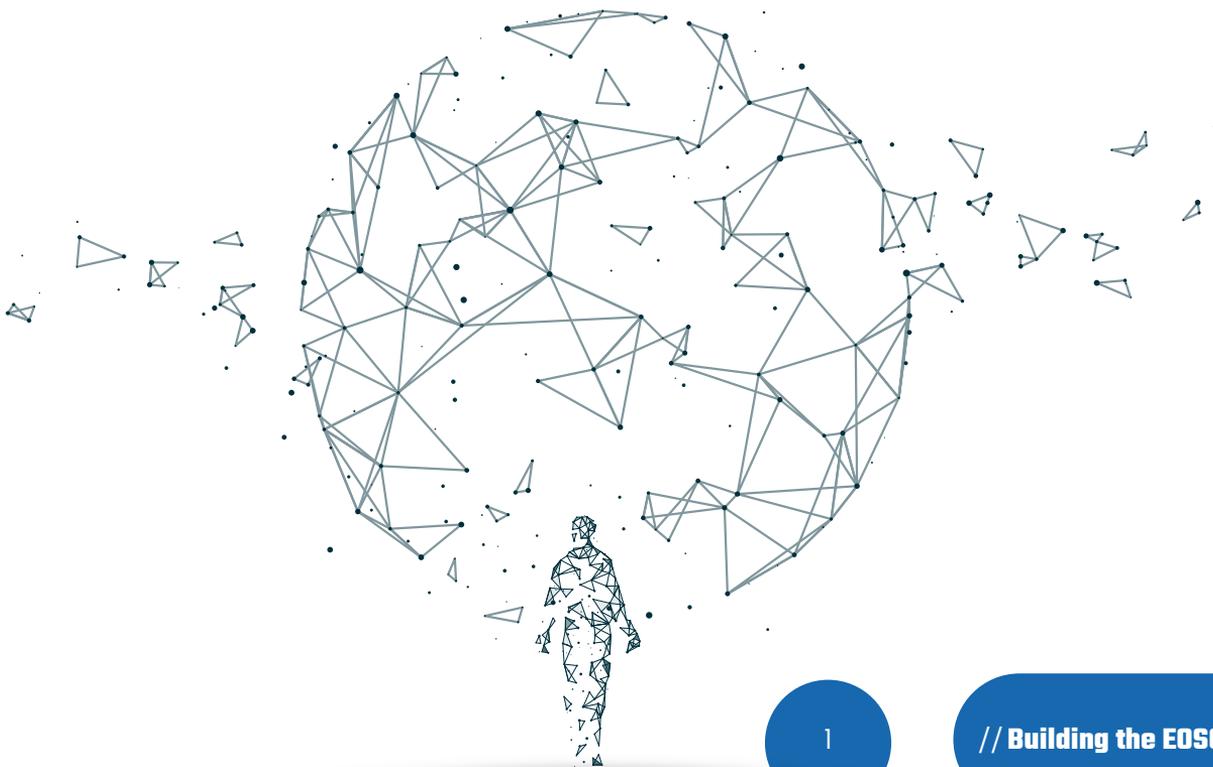
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the EUROPEAN OPEN SCIENCE CLOUD



“We are creating a European Open Science Cloud now. It is a trusted space for researchers to store their data and to access data from researchers from all other disciplines. We will create a pool of interlinked information, a ‘web of research data’. Every researcher will be able to better use not only their own data, but also those of others. They will thus come to new insights, new findings and new solutions.”



Ursula von der Leyen,

European Commission President
World Economic Forum in Davos,
January 2020

What is the European Open Science Cloud?

The European Open Science Cloud (EOSC) aims to give the European Union a global lead in research data management and ensure that European scientists are able to reap the full benefits of data-driven science.

Potential users

1.7M Researchers

70M Science and technology professionals



A virtual commons for science

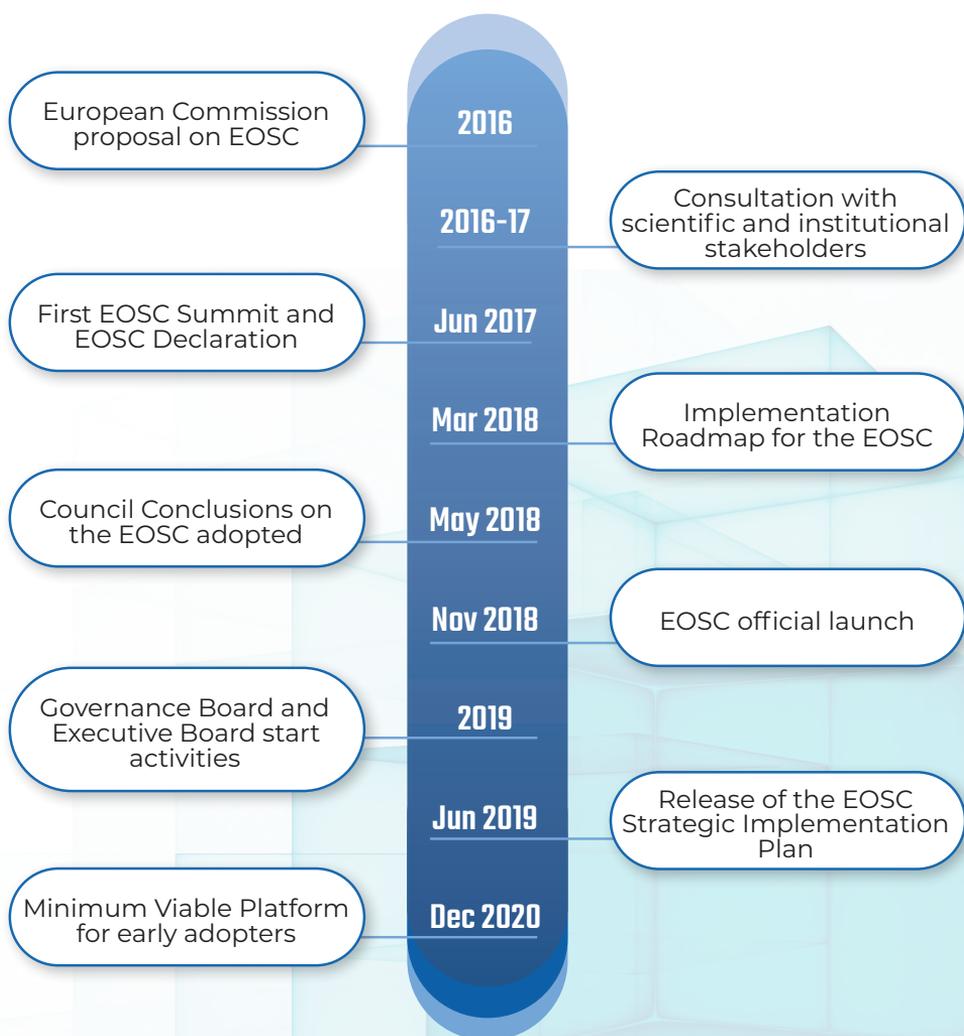
- Bringing science producers and science consumers together
- Federation of existing infrastructures augmented by new services to add value
- Revolutionising how we do research and how scientific knowledge is created in all disciplines, in all geographies

Common values

- Focused on research needs
- Community driven
- Inclusive and respectful of diversity
- Accessible to all from large equipment, large computers & big data to small data & long-tail research
- Open by default – closed where necessary
- Hands-on and participatory
- Transparent and trustworthy

A long-term EU commitment to the EOOSC

EOOSC leverages existing infrastructures and investment, with 10 billion invested annually by Member States, part of a 20-year plan put in place by the European Union.



The EOSC governance 2019-2020

The EOSC requires a governance structure bringing together public funders (from Member States, Associated States and the European Commission) and the EOSC stakeholders (researchers, service providers, industry, public sector and other users).

Governance Board

Consisting of representatives from EU Member States and EC

Executive Board

Consisting of experts from key European research and e-infrastructures communities

Stakeholders Forum

Representing the wider community of users, service providers, industry and the public sector

Governance Board

Representatives from EU Member States, Associated countries & EC

Role: Effective supervision of the EOSC implementation

Executive Board

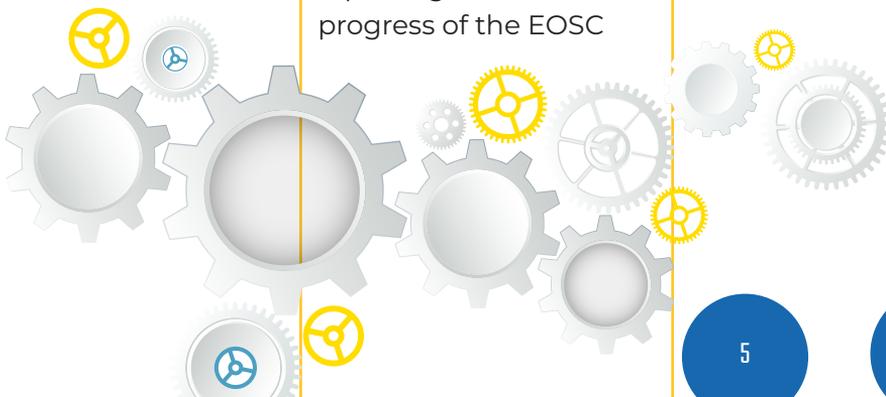
Experts from key EU research and e-Infrastructure communities

Role: Provide advice and support on the strategy, implementation, monitoring and reporting on the progress of the EOSC

Stakeholders Forum

The wider community of users, service providers, industry, public sector

Role: Contributing to the EOSC implementation



Strategic priorities for EOSC

The Executive Board has established strategic priorities for the EOSC and activated Working Groups and Task Forces to address them.

Architecture



Technical framework to enable and sustain an evolving EOSC federation of systems.

Priorities:

- Current architecture offering and evolution
- Initial EOSC Federating Core and shared resources
- Registry of EOSC data infrastructures
- Groundwork for connection of services to the EOSC

FAIR



FAIR data principles to foster cross-disciplinary interoperability.

Priorities:

- FAIR practice, addressing disciplinary standards
- Interoperability framework for exchange
- Persistent Identifier policy
- Metrics and certification for monitoring data and services

Landscape



Existing candidate research infrastructures in Europe for EOSC.

Priorities:

- Mapping relevant national infrastructures
- Mapping national and regional initiatives
- Harmonisation practices for national and transnational initiatives
- Readiness level of individual countries to support the EOSC

150+

Working Groups
members

26

Member States & Associates
Countries represented

Rules of Participation



Rights and obligations governing EOSC transactions.

Priorities:

- Rights, obligations and accountability of the EOSC actors
- RoP for immediate implementation
- Collection of user feedback on initial RoP
- Proposal of updated Rules for application after 2020

Sustainability



Operational, scalable and sustainable EOSC federation after 2020.

Priorities:

- Business models and operational costs for a Minimum Viable EOSC
- Potential legal entities
- Options for a governance framework for initial EOSC operations
- Regulatory environments for data and services

Training and Skills



A sustainable training infrastructure framework.

Priorities:

- Minimum set of skills for EOSC
- Certification mechanisms for trainers
- Specifications for training catalogues
- MVP for training and sustainability model

Communications and Branding

Defining the messaging and branding of the EOSC.

International Engagement

Strengthening and developing links with international open science initiatives.

Task forces



A first EOSC iteration by the end of 2020

The Executive Board will deliver 10 key outputs to ensure a Minimum Viable EOSC is in operation by the end of 2020, which will enable the federation of existing and planned research data infrastructures to facilitate cross-disciplinary research. This can lead to new scientific discoveries and new insights for society.



Implementing a comprehensive EOSC for all researchers

The European Union works on many fronts to implement the EOSC for the benefit of researchers across Europe.

44

EOSC-related research projects funded by the EU's Horizon 2020 Programme

700+

Organisations involved

Cross-cutting EOSC topics

- eInfrastructure
- FAIR Data
- Open Science
- Thematic clouds
- Service provisioning
- International cooperation
- Cross disciplinary access to data and services

400+

participants attending the annual EOSC Symposium

The large number of organisations participating in EU-funded EOSC-related projects positively impacts the European Union as it wants to:

- Advance research and innovation
- Bring scientific clusters to work together in a cross-disciplinary fashion to pull out a convincing set of services
- Promote open science and sharing of knowledge across countries
- Provide input to shape future EU policies
- Inspire enthusiasm & buy-in from end-users
- Boost trust and transparency, helping break down barriers to entry



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