

European Open Science Cloud (EOSC): An overview

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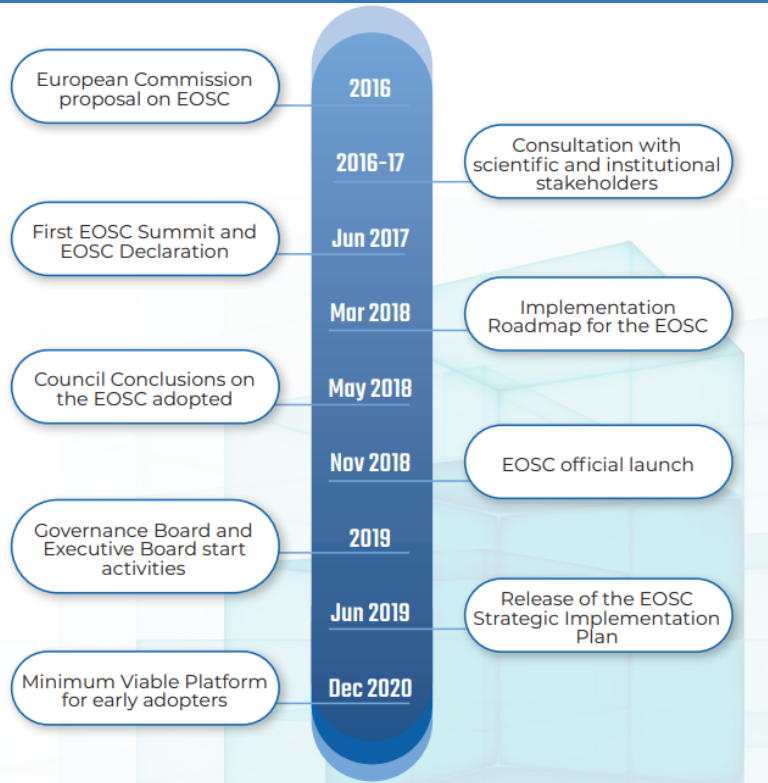
“We are creating a European Open Science Cloud now. It is a trusted space for researchers to store their data and to access data from researchers from all other disciplines. We will create a pool of interlinked information, a ‘web of research data’. Every researcher will be able to better use not only 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



Source: https://www.eoscsecretariat.eu/sites/default/files/eosc_bookletb5_march2020_web.pdf

The background



The Vienna Declaration on the European Open Science Cloud
Vienna, 23 November 2018

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We, Ministers, delegates and other participants attending the launch event of the European Open Science Cloud (EOSC):

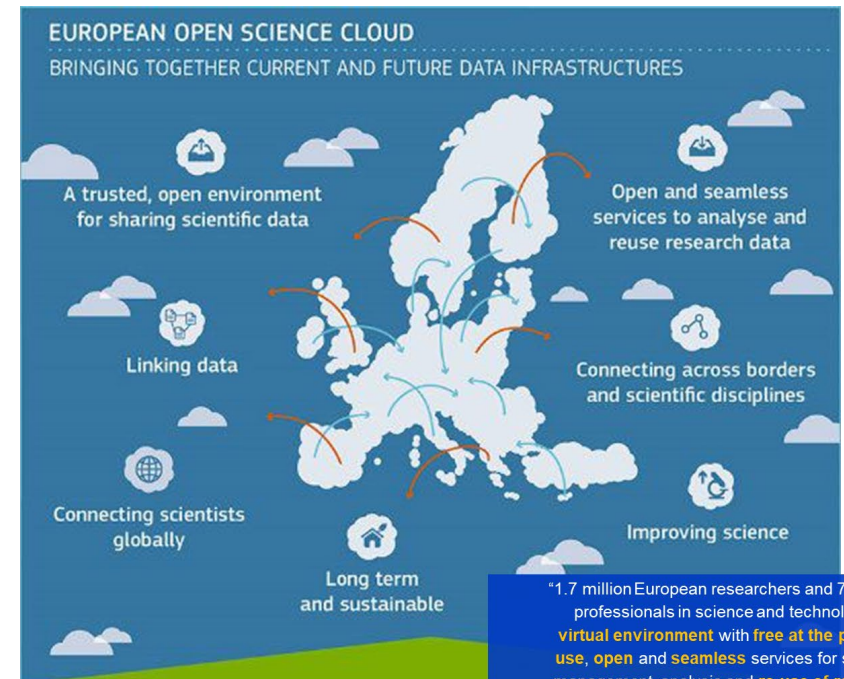
1. Recall the challenges of data driven research in pursuing excellent science as stated in the "EOSC Declaration" signed in Brussels on 10 July 2017.
2. Reaffirm the potential of the European Open Science Cloud to transform the research landscape in Europe. Confirm that the vision of the European Open Science Cloud is that of a research data commons, inclusive of all disciplines and Member States, sustainable in the long-term.
3. Recognise that the implementation of the European Open Science Cloud is a process, not a project, by its nature iterative and based on constant learning and mutual alignment. Highlight the need for continuous dialogue to build trust and consensus among scientists, researchers, funders, users and service providers.
4. Highlight that Europe is well placed to take a global leadership position in the development and application of cloud services for Science. Reaffirm that the European Open Science Cloud will be both European and open to the world, reaching out over time to relevant global research partners.
5. Recall that the Council - in its conclusions of 29 May 2018 - welcomed the implementation roadmap and the federated model for the European Open Science Cloud. It invited the Commission and all Member States to set up a common governance framework that transparency, openness and
6. Note that the 2018 EOSC Science Cloud is a reality, her holders, for a new governa

We therefore:

7. Resolve to harness the an inclusive partnership with enhance value-based, ope
8. Invite all Member States new European Open Scie
9. Call for the European O open-by-default, efficient a supported by FAIR data pr
10. Commit to support ser disciplinary nodes to the p
11. Reaffirm the potentia new business models bene both public and private se ensuring access, transpar

We therefore declar
Science Cloud for the benefit of citizens, society and the economy.

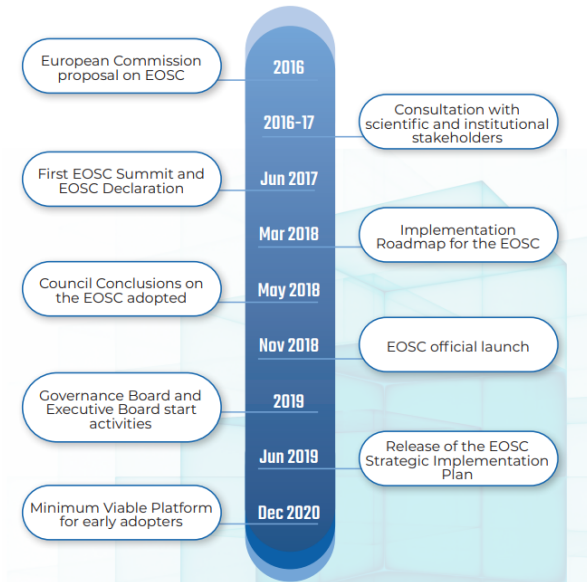
The Vienna EOSC Declaration was developed by Paolo Buzoni, University of Vienna, and Stefan Herndl, Austrian Federal Ministry for Education, Science and Research in close cooperation with the European Commission



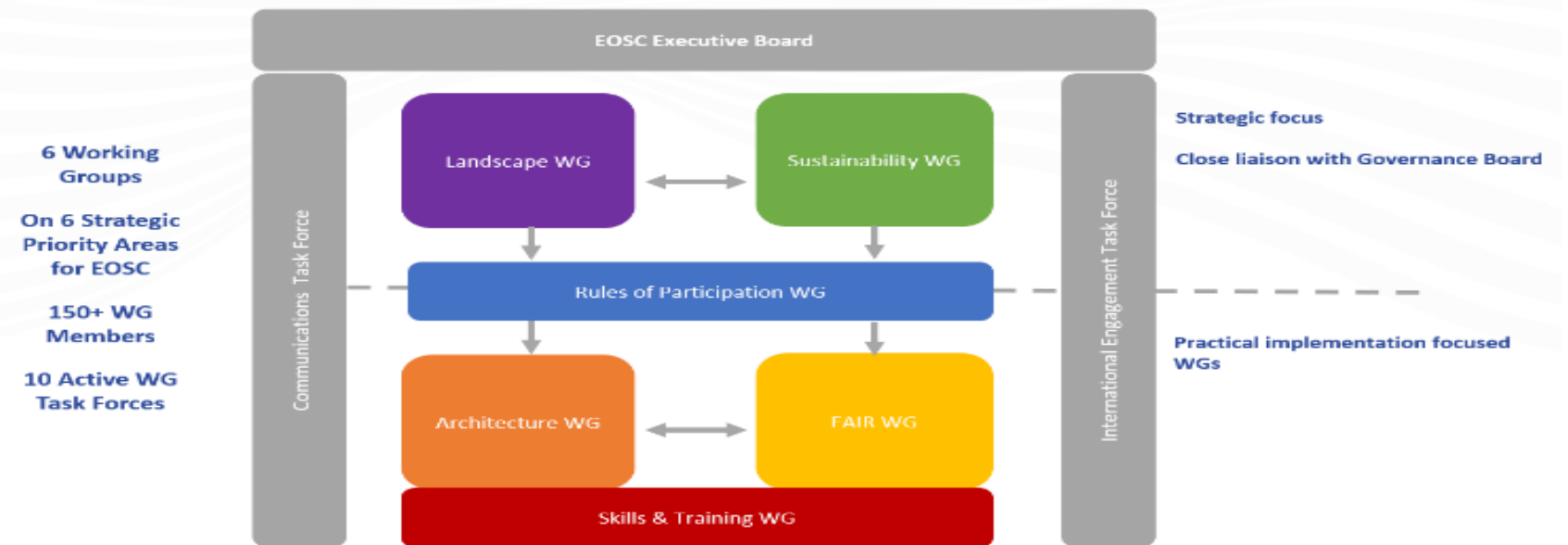
"1.7 million European researchers and 70 million professionals in science and technology a virtual environment with free at the point of use, open and seamless services for storage, management, analysis and re-use of research data, across borders and scientific disciplines"

Src: https://ec.europa.eu/commission/news/european-open-science-cloud-becomes-reality-2018-nov-23_en

Governance structure



EOSC-EB Working Groups and Task Forces



<https://www.eoscsecretariat.eu/eosc-working-groups>

Actions to support EOSC

- ❑ At the end of 2019, [EOSC-Synergy](#), [EOSC-Pillar](#), [EOSC-Nordic](#), [NI4OS-Europe](#), [ExPaNDS](#), [FAIRsFAIR](#), and [EOSCSecretariat.eu](#) signed a Collaboration Agreement in support of the EOSC Governance that provides a useful framework to enhance synergies in all mutual activities related to the EOSC.
- ❑ A Cross-Project Collaboration Board (CPCB) was established as well, featuring two members per each project.
- ❑ **EOSC-Synergy** extends coordination to Czech Republic, Germany, Netherlands, Poland, Portugal, Spain, and the UK bridging the gap between national initiatives and EOSC;
- ❑ **EOSC-Pillar** aims to coordinate national open science efforts across Austria, Belgium, France, Germany, and Italy;
- ❑ **EOSC-Nordic** aims to facilitate the coordination of EOSC relevant initiatives taking place in Finland, Sweden, Norway, Denmark, Iceland, Estonia, Lithuania, and Latvia;
- ❑ **NI4OS-Europe** aims to be a core contributor to the EOSC service portfolio, commit to EOSC governance and ensure inclusiveness at the European level for enabling global open science;
- ❑ **ExPaNDS** will expand, accelerate and support the data management and data services provided through the EOSC for major national Photon and Neutron Research Infrastructures in delivering world-leading science;
- ❑ **FAIRsFAIR** aims to supply solutions for the use of FAIR data principles throughout the research data life cycle;
- ❑ **EOSCSecretariat.eu** acts as a facilitator for the activities of all the projects involved.
- ❑ [Working together for the realisation of EOSC](#)



EOSC Governance - Association

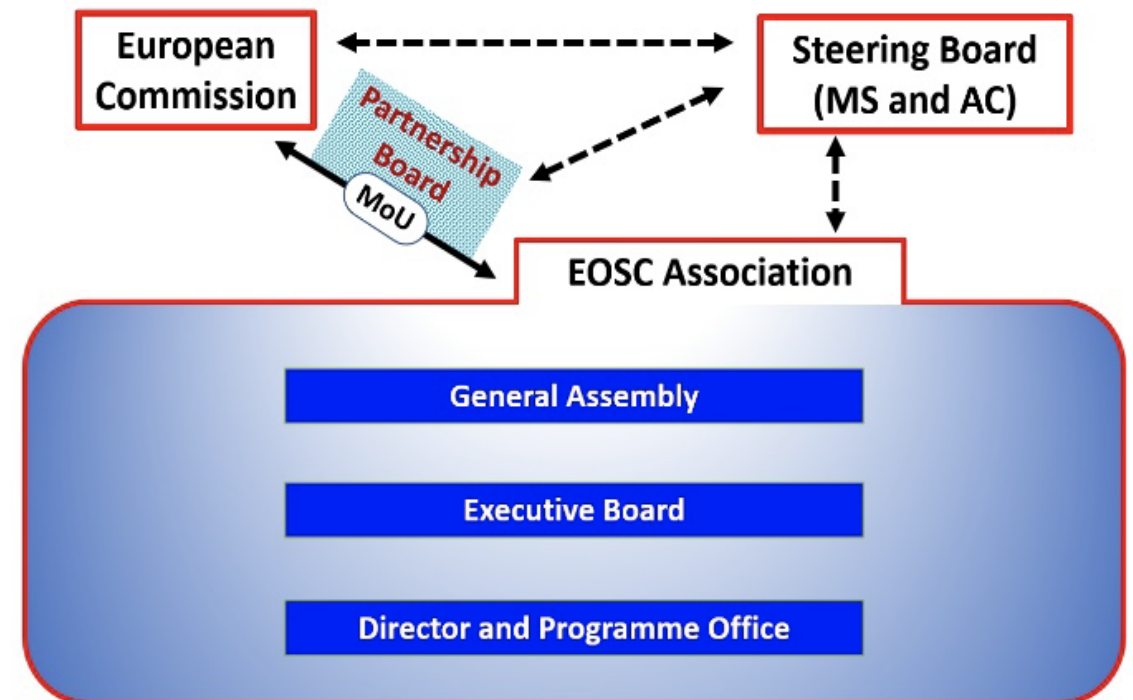
The Partnership will operate through a new Association (Belgian AISBL) along the principles of decentralisation, transparency and openness.

Core tasks

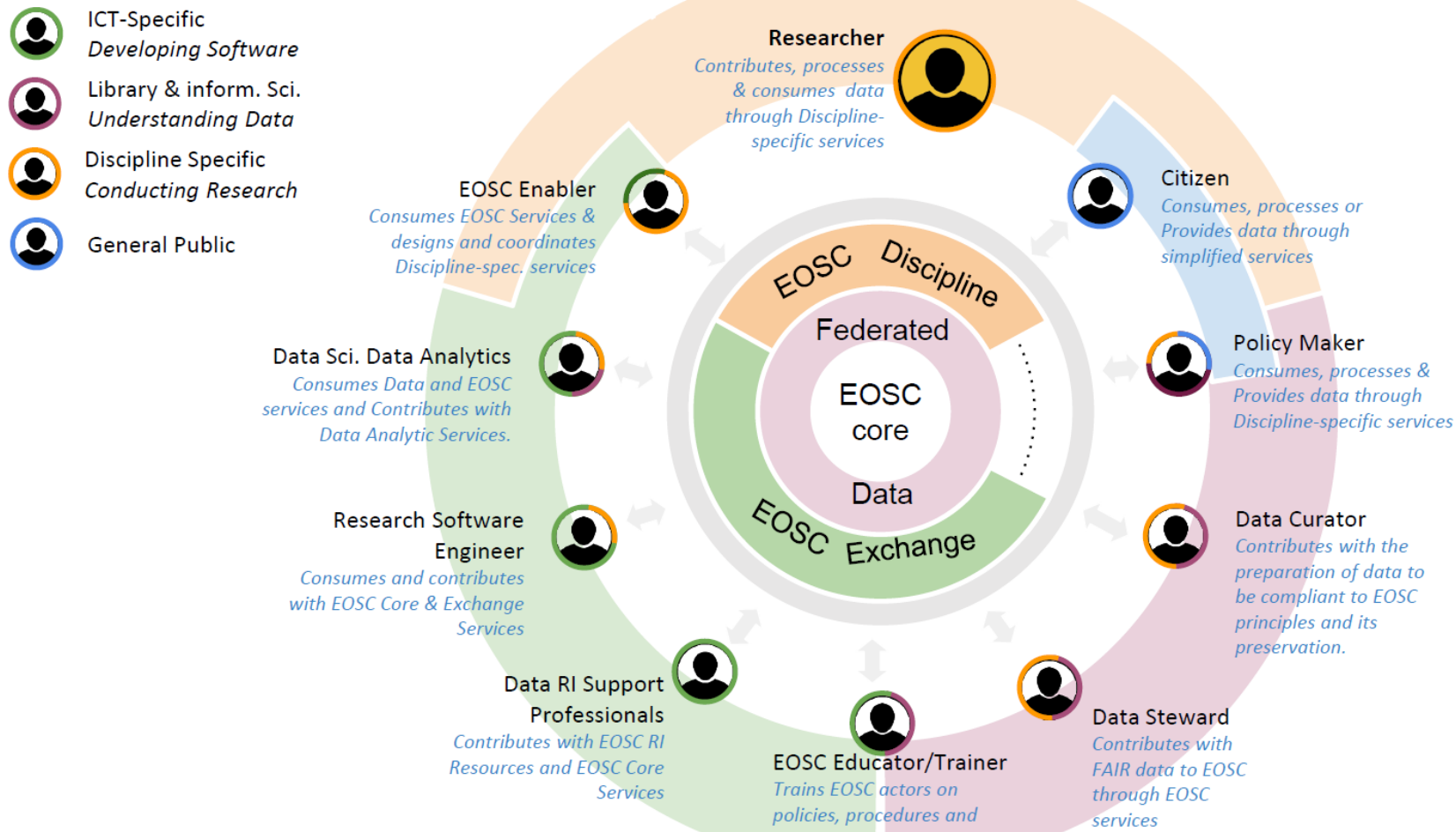
- ❑ Coordination and alignment (SRIA)
- ❑ Monitoring and reporting
- ❑ EOSC technical guidance
- ❑ FAIR training
- ❑ Communication

*The Association will be essentially resourced via the **membership fees** from its members. 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.*

Governance of the Partnership



Stakeholders of EOSC



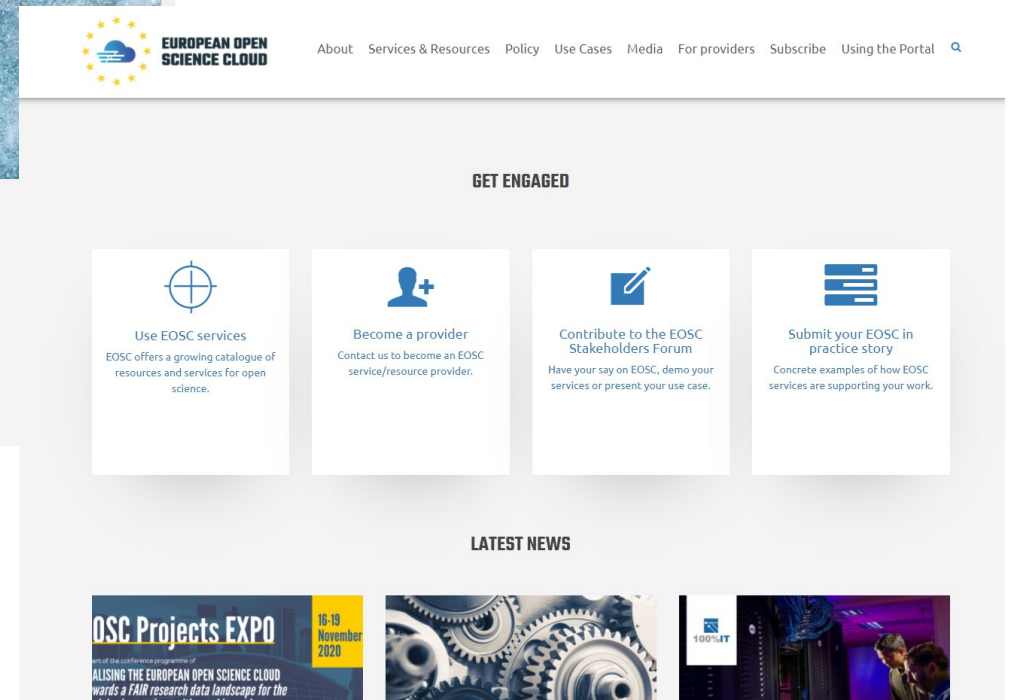
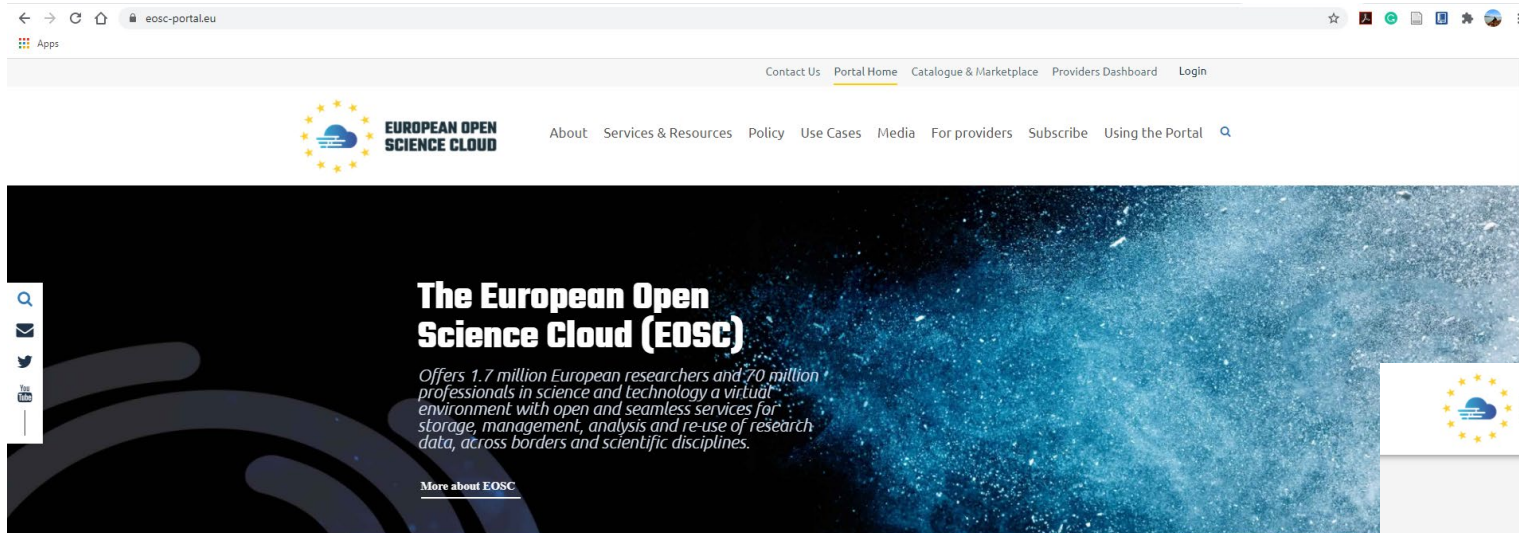
Source: EOSC Symposium2020: Digital skills in national strategies, Natalia Manola & Vinciane Gaillard – EOSC Skills & Training WG Chair

Stakeholders of EOSC

Stakeholders working together to

- cataloguing datasets
- combining pre-existing research infrastructures
- provide services for researcher data
- exchange datasets across disciplines
- create the internet of FAIR data

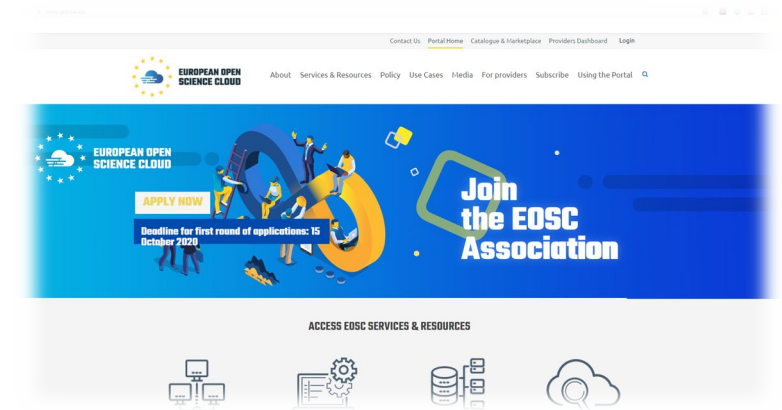
How you can contribute



What is EOSC?

A virtual environment, set up by the European Commission, which federates the handling of research data by existing scientific data infrastructures and provides a one-stop-shop for seamless access to services supporting the research community along the data life cycle

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



Challenges EOSC wants to address

- Provide **access** to data and research results
- Handle the increase in **data volume**
- Battle limited **data publications** and **sharing** of data
- **Disciplines** that are working in silos
- Collaboration and **synergy** of data infrastructures, services and expertise

Thank you for your attention!



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