

# The Vienna Declaration on the European Open Science Cloud

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Connecting the future



[ABSTRACT The Vienna Declaration on the European Open Science Cloud

In November 2018, the European Commission launched the [European Open Science Cloud \(EOSC\)](#) at the University of Vienna. The European Open Science Cloud (EOSC) envisions establishing a European data infrastructure, integrating high-capacity cloud solutions, eventually widening the scope of these services to include the public sector and industry.

Understanding the EOSC structure is a first step in recognizing the opportunities offered by the newly launched EOSC. This presentation offers some reflections concerning the Vienna Declaration on the European Open Science Cloud

*Addressed main topics:*

Development of sustainable collaborative digital ecosystems - Digital Single Market - Data Culture - Research Data Services - Architecture and Funding - Governance models - Pan European initiatives, infrastructures and bodies

*Keywords:* EOSC, EOSC Secretariat, Data Culture, Internet of FAIR data and services]

# EOSC – Not a cloud made in Brussels ...

(quote Jean-Claude Burgelman, EOSC Conference, Vienna, 30 October 2018)



LIBER  
TIBER

THE EUROPEAN SCIENCE CLOUD  
JEAN-CLAUDE BURGELMAN  
EC

1.7 MILLION EU-RESEARCHER  
WILL GET FREE, OPEN SERVICES  
FOR DATA SCIENCE



WE STARTED IT ALL IN 2016  
AND LAUNCH THIS YEAR IN 2018  
NOT EVERYTHING WILL BE  
UP AND RUNNING  
IN 2020 WE WILL REACH  
THE FULL IMPLEMENTATION

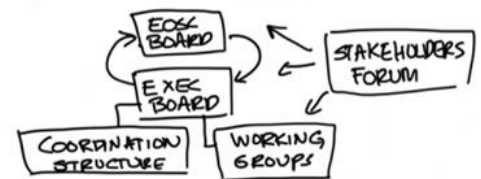


WITHOUT FAIR DATA  
THERE IS NO EOSC

COST OF NOT HAVING  
FAIR DATA IS INTO THE  
BILLIONS OF EURO  
YEARLY



MANAGEMENT IN THREE LAYERS



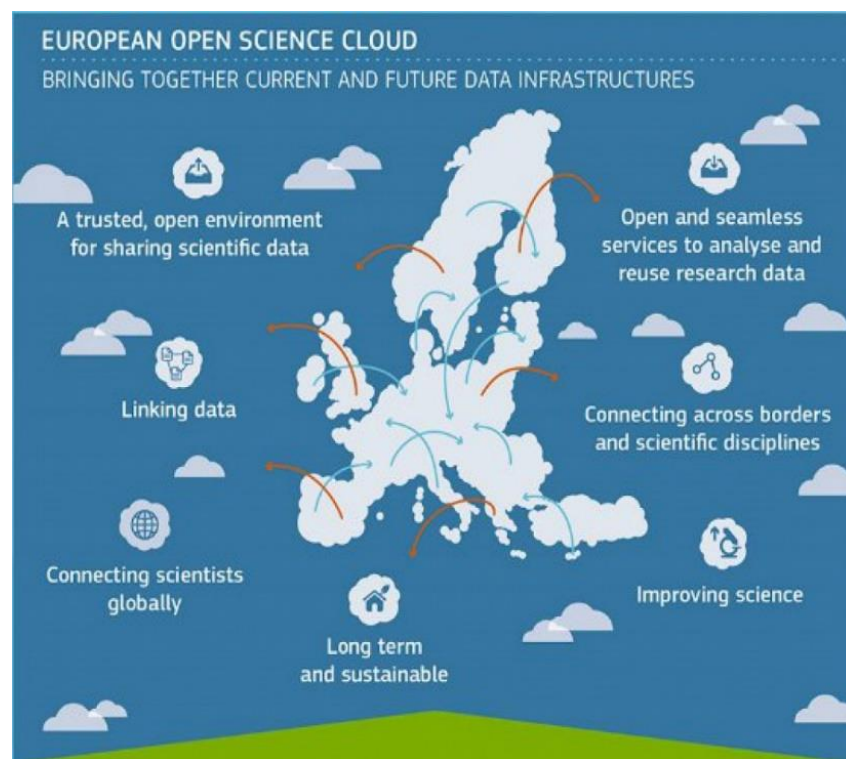
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# The vision

EOSC will provide **1.7m EU researchers** an environment with free, open services for data storage, management, analysis and re-use across disciplines

EOSC will join existing and emerging horizontal and thematic data infrastructures, **bridging todays fragmentation and ad-hoc solutions**

**EOSC will add value and leverage** past infrastructure investment (10b per year by MS, two decades EU investment)



## **The EOSC is not a new dedicated infrastructure or software package:**

- it is a process of making research data in Europe accessible to all researchers under the same conditions of use and usage.
- gives a strong push in Europe towards a culture of open research data that are findable, accessible, interoperable and reusable (FAIR)
- networking the existing European data infrastructures, integrating high-capacity cloud solutions, and in due course, widening the scope of these services to include users from the public sector and industry
- efforts particularly directed on *Data Culture, Research Data Services, Federated Architecture and co-Funding.*

CREDITS: Budroni/Burgelman/Schouppe

# Roles

	Role
<b>EOSC Board</b>	To <b>oversee &amp; steer</b> the EOSC strategy and implementation  → <i>Review and decide</i>
<b>EOSC Executive Board</b>	To <b>help &amp; support</b> the EOSC strategy, implementation, monitoring and reporting on progress of implementation  → <i>Elaborate and propose</i>
<b>Stakeholders Forum</b>	To <b>advise</b> the Executive Board and reach-out to the scientific community  → <i>Provide input and feedback</i>
<b>EOSC Secretariat</b>	To <b>support</b> to the EOSC Executive Board and the Governance Board to work openly and inclusively together with communities to co-create an all-encompassing EOSC  → <i>Support and co-create</i>

November 2018 – Launch of the EOSC  
The Vienna Declaration on the European  
Open Science Cloud



November 2018 – Launch of the EOSC

# The Vienna Declaration on the European Open Science Cloud



*Stefan Hanslik*



*Paolo Budroni*

*The Vienna EOSC Declaration was conceived by Paolo Budroni, University of Vienna and Stefan Hanslik, Austrian Federal Ministry for Education in close cooperation with the European Commission. Vienna, 2018*



To understand the EOSC process, the following five characteristics must be taken into consideration:

*The EOSC results from two complementary movements: community-driven and multi-governmental.*

*The EOSC faces complex governance issues*

*The EOSC raises many questions from the scientific communities because it concerns them all*

*Common understanding of the EOSC vision and governance is a prerequisite for convergence*

*The EOSC follows two years of intense consultations culminating in the EOSC launch event and the related Vienna Declaration*

# The Vienna Declaration on the European Open Science Cloud

Vienna, 23 November 2018

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 ensures participation of stakeholders from the research community based on principles of transparency, openness and inclusiveness and an effective involvement of all Member States.

## Contact

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————DOWNLOAD————  
The Vienna Declaration  
on the European Open  
Science Cloud

*The Vienna EOSC Declaration was conceived by Paolo Budroni, University of Vienna and Stefan Hanslik, Austrian Federal Ministry for Education in close cooperation with the European Commission. Vienna, 2018*

Windows

# The Vienna Declaration on the EOSC /2

## We therefore:

- 7 Resolve** to harness the many ongoing and planned activities at EU and Member States level to cooperate in establishing an inclusive partnership with a view to developing the European Open Science Cloud as a federated infrastructure that can enhance value-based, open, trusted, user-centric digital services across borders within the Digital Single Market (DSM).
- 8 Invite** all Member States, as well as public and private stakeholders in Europe, to support actively this joint effort and the new European Open Science Cloud governance structure for a successful implementation of the initiative.
- 9 Call** for the European Open Science Cloud to provide all researchers in Europe with seamless access to an open-by-default, efficient and cross-disciplinary environment for storing, accessing, reusing and processing research data supported by FAIR data principles.
- 10 Commit** to support service provision for the European Open Science Cloud by helping connecting relevant national and disciplinary nodes to the pan-European level.
- 11 Reaffirm** the potential of the European Open Science Cloud to enable first-class data-driven science and to stimulate new business models benefiting our society and the economy. Recognise that such services will create opportunities for both public and private sectors, notably by intensifying reuse of public sector information while preserving data integrity, and ensuring access, transparency within and across borders.

**We therefore declare** to work together towards realising the potential of the European Open Science Cloud for the benefit of citizens, society and the economy.

# The tangible added value of the EOSC Launch/ 1

## ***Political dimension***

*The Declaration on the EOSC has been officially proclaimed by the Austrian Presidency of the Council of the EU, then reiterated by the Bulgarian (former Presidency) and Rumanian (following Presidency) representatives and has finally been endorsed by acclamation of all the participants.*

## ***Formal launch of the initial implementation phase 2018-2020 of the EOSC***

*The Declaration marks the starting point of the implementation of the EOSC. It provides a relevant landmark for all institutions in Europe willing to advance Open Science and implement an internet of FAIR research data.*

## The tangible added value of the EOSC Launch / 2

*The Declaration underpins the fact, that the **EOSC is not a project but a process** aiming at the convergence of research data policies across Europe. As such it is dynamic, subject to constant evolution*

*The Declaration underlines **the involvement** of the European Commission, the Member States and the EU Council **in the elaboration process of the EOSC***

### ***Contribution to the realization of the DSM***

*The Declaration is explicit on the supporting role of the EOSC to realise a Digital Single Market (DSM) in Europe: This reference to the DSM offers a link to the Sustainable Development Goals of the United Nations, especially goals number 4, 5 and 9*

# The tangible added value of the EOSC Launch / 3

## ***Inclusive character***

*The Declaration is explicit on the inclusive character of the EOSC process, which shall influence future rules of engagement in the EOSC.*

## ***Focus on the needs of the researchers***

*The Declaration recalls the focus of the EOSC on the needs of the researchers, contributing in a concrete way to an internet of FAIR data*

## The tangible added value of the EOSC Launch / 4

*A timeline of 25 months (till December 2020) has started in Vienna for the new governance to set the EOSC into motion towards an operational capacity after 2020. In other words, the EOSC implementation phase has started, but with an interim Governance Framework mandated to steer the implementation till end 2020 and to help for the transition post-2020*

- 1. The executive board has been formed (the members have been appointed);*
- 2. The Governing Board has been appointed and is now operative.*
- 3. The Stakeholders Forum has been installed, as a body;*

## The tangible added value of the EOSC Launch /5

*The event was the occasion to clarify that the priority target users of the EOSC are the European researchers themselves.*

*However, the EOSC follows a multi-stakeholders' approach and will gradually expand its user base.*



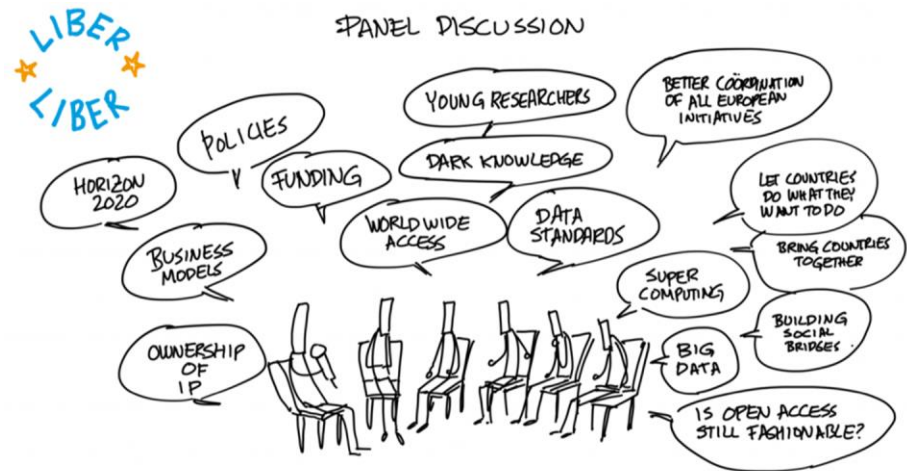
# Thank you

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*Austrian participation to the EOSC Secretariat: WP2, WP3*

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