



-The Austrian Use Case- FAIR as guiding principle-

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EOSC-a definition

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Architectures of Knowledge: The European Open Science Cloud

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Abstract: In November 2018, the European Commission launched the European Open Science Cloud (EOSC) in Vienna. The 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 the industry. Understanding the EOSC structure is a first step in recognizing the opportunities offered by the newly launched EOSC. This article offers some reflections for a better understanding of the realization of the EOSC at the present stage, including currently ongoing developments.¹

Keywords: European Open Science Cloud, EOSC, Digital Single Market

1 European Open Science Cloud (EOSC): a process, not a project

In November 2018, under the Austrian Presidency, the European Commission launched the European Open Science Cloud at the University of Vienna.²

The EOSC is not a new infrastructure or software package, it is a process of making research data in Europe accessible to all researchers under the same terms of use and distribution. The initiative aims to push Europe towards a culture of open research data that are detectable, accessible, interoperable and reusable (FAIR), hence allowing all European researchers to embark on a journey towards data-driven science.

EOSC-the vision

22 Jan 2020

EC President Ursula von der Leyen talks EOSC in Davos

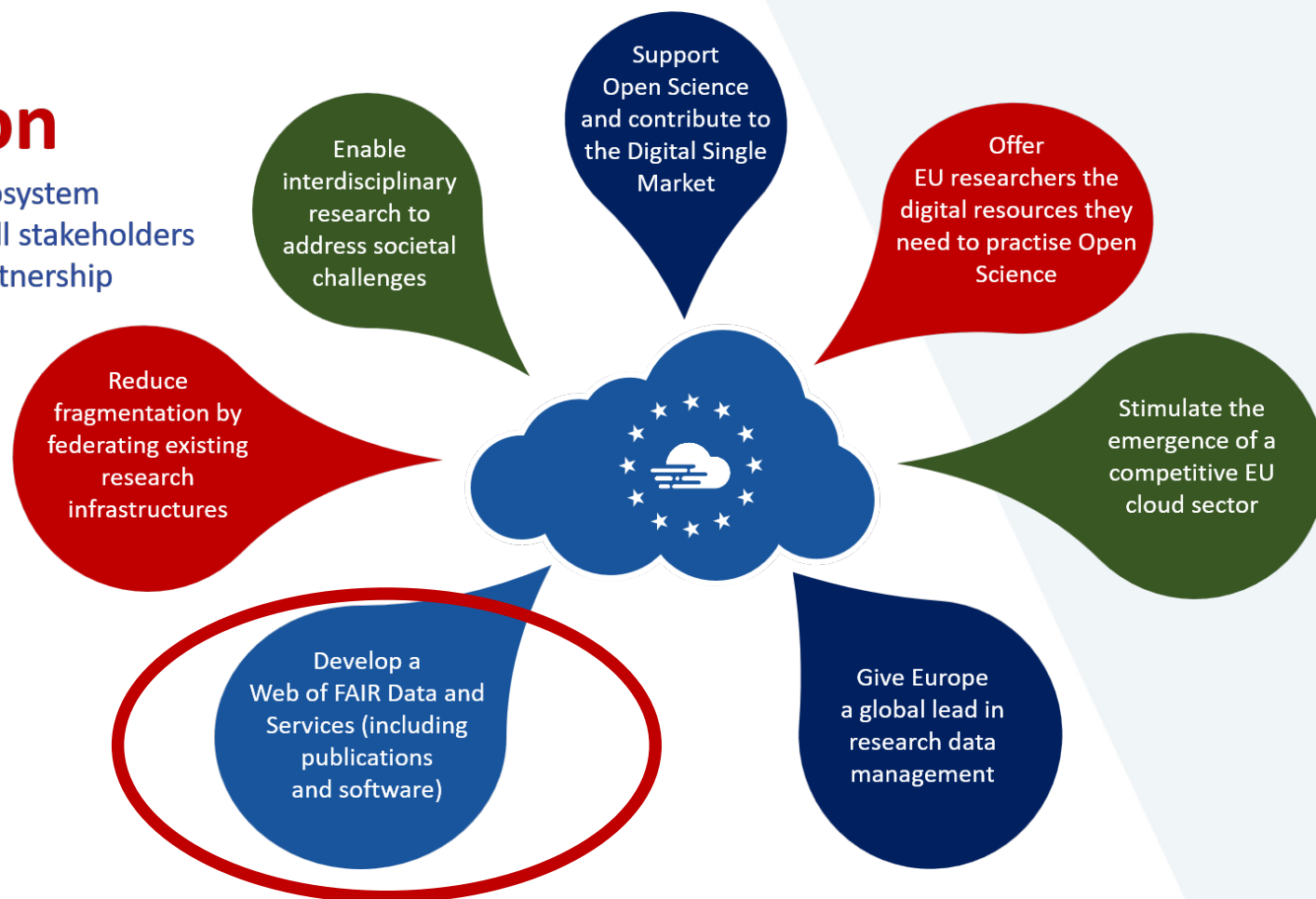


"We are creating a European Open Science Cloud now. It is a trusted space for researchers to store their data and to access data from researchers from all other disciplines. We will create a pool of interlinked information, a 'web of research data'. Every researcher will be able to better use not only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

<https://eosc-portal.eu/news/ec-president-ursula-von-der-leyen-talks-eosc-davos>

The Vision

Building the EOSC ecosystem
collaboratively with all stakeholders
through the EOSC Partnership



“A web of scientific insight”

- **Web of FAIR Data and related Services**
- **Federation of relevant existing and future data sources**
- **Virtual space where science producers and consumers come together**
- **An open-ended range of content and services**
- **Meeting all European data requirements**
- **In interaction with other regions of the world**

Guiding principles for EOSC

The **overarching** principle for developing EOSC is that research has to be at the centre of the EOSC initiative.

- **Multi-stakeholderism**
EOSC will succeed if and only if it follows a multi-stakeholder approach;
- **Openness**
EOSC will ensure research artefacts be 'as open as possible, as closed as necessary';
- **FAIR principles**
EOSC research artefacts need to be findable, accessible, interoperable and reusable;
- **Federation of infrastructures**
EOSC will federate existing and upcoming data- and e-infrastructures;
- **Machine-actionable**
EOSC will strike the right balance between machines and people in delivering the services that will serve the needs of European scientists.

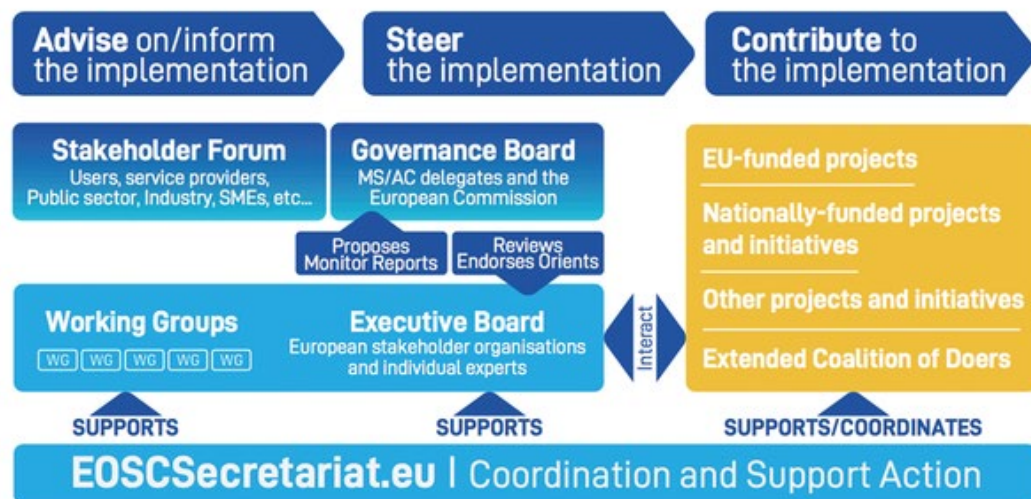
EOSC -the History

The history: EOSC – Not a cloud made in Brussels
EOSC launch at the University of Vienna

What started, at the European level, with a Council conclusion on open, data-intensive and networked research as a driver for faster and wider information in 2015, followed by a Council conclusion on the transition towards an open science system in 2016, supported by the European Parliament by a resolution on the European Cloud initiative, led into a Council conclusion on EOSC in 2018, and in November 2018 finally resulted in the official launch of the European Open Science Cloud and its governance structure by the acclamation of the Vienna Declaration.

EOSC governance 2018-2020

The launch event marked the start of the first phase of an EOSC Governance within the "Horizon 2020" framework programme. Within a period of two years, the involved boards developed a model and legal framework in consultation with various stakeholders. The work resulted in a sustainable partnership model, clear rules of participation and funding schemes. The current tasks include steering the initial implementation, involving relevant stakeholders from research and infrastructures and enabling the transition to the second stage, EOSC post 2020.



Developing EOSC

A view on an ongoing process, as per 31 January 2020

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LINK: https://www.aco.net/developing_eosc.html?L=1

Projects supporting EOSC



eInfraCentral

eInfraCentral is the European catalogue of e-Infrastructure services and resources. For users, this standardised registry makes it easier to discover and access services and resources. For service providers, this quality oriented registry enables publishing of their services to meet researchers' expectations.



EOSC Secretariat

EOSC Secretariat delivers 360° support to the EOSC Governance while working openly and inclusively with communities to co-create an all-encompassing European Open Science Cloud.



EOSC-hub

EOSC-hub brings together multiple service providers to create the Hub: a single contact point for European researchers and innovators to discover, access, use and reuse a broad spectrum of resources for advanced data-driven research.

to find related Austrian research infrastructures see our database:
<https://forschungsinfrastruktur.bmbwf.gv.at/en>

Projects supporting EOSC



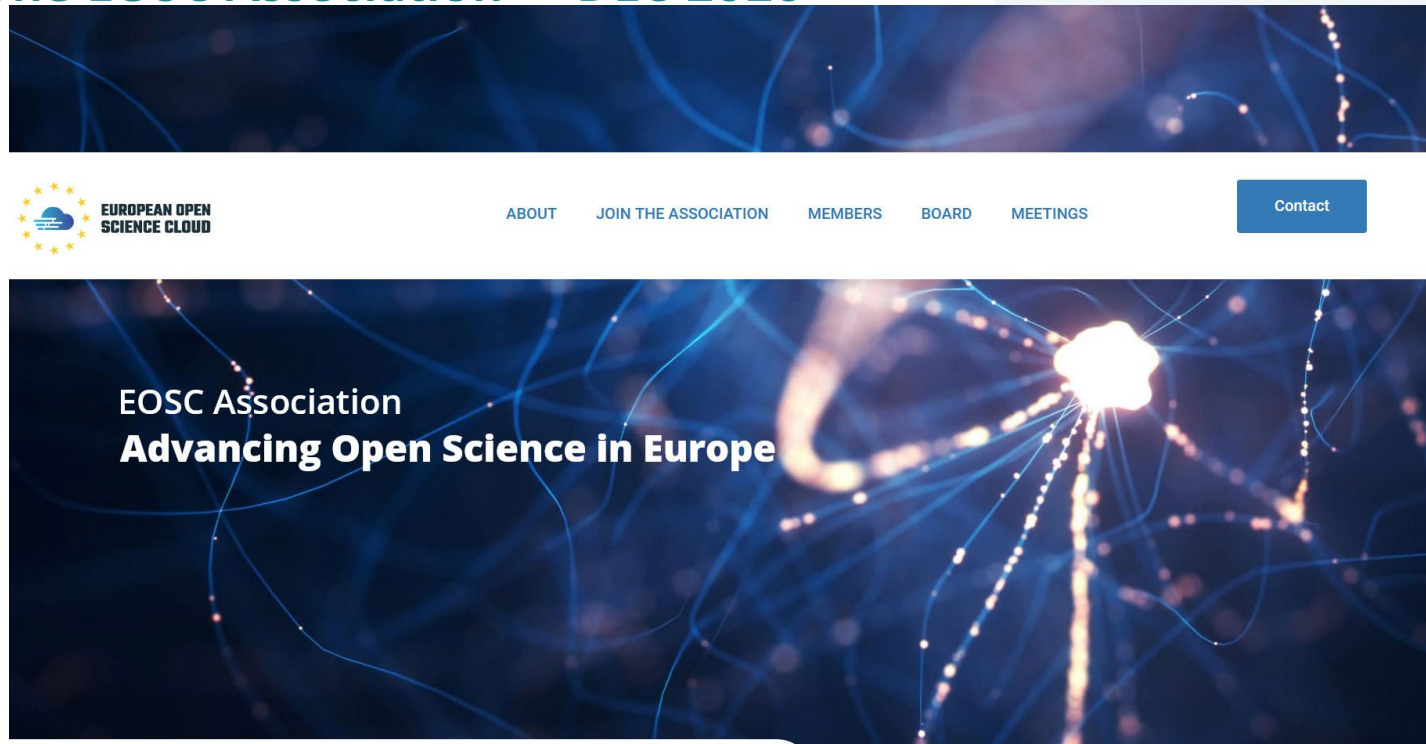
EOSC-2021+

Governance of the co-programmed Partnership



- A contractual agreement (MoU) will be signed between the EOSC Association (currently being set up) and the Commission.
- The Commission and the EOSC Association will establish a Partnership Board as the main mechanism for dialogue in order to reach the objectives of the Partnership.
- A Steering Board (composed of representatives of Member States and Associated Countries) will be set up outside of the EOSC Association to provide advice at policy and strategy level.

The EOSC Association - DEC 2020



EOSC ASSOCIATION (AISBL) <https://www.eosc.eu/>
Statutes: https://www.eosc.eu/sites/default/files/EOSC_Statutes.pdf

EOSC Association

- **Four founding members (CESAER, GEANT, GARR, CSIC)**
- **Was incorporated as AISBL on Wednesday 29th July 2020**
- **Obtained Royal Decree on Friday 11th September 2020**
- **First General Assembly on 17-12-2020 elected President and Board**
- **Research Performing; Research Funding and Service Providing organisations**
- **Now ~ 150 members and ~ 60 observers (62% - 8% - 30%) (May 2021)**
- **A European Co-programmed Partnership, between the EC and
the EOSC Association, MoU to be signed 23 June 2021**
- **Joining the EOSC Association = Joining the EOSC Partnership!**

Abstract: Towards the European Open Science Cloud: The Austrian Experience

Moment of truth: April 2021 – setting up the Austrian Mandated Organisation

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. In November 2018, the European Commission launched the European Open Science Cloud (EOSC) at the University of Vienna. Two years later the EOSC Association was established as a legal entity on 29th July 2020 with four founding members. In January 2021 TU Wien created a new organizational unit, the *EOSC and International Liaison Office*, based at TU Wien Bibliothek – and in February 2021 the Austrian Mandated Organisation applied for membership in the EOSC Association.

But, what does it mean to implement the EOSC at a domestic level, and how does it fit with the now launched EOSC Association? How can relevant Austrian communities engage with the EOSC? How can Austrian EOSC Stakeholders contribute to the structuring of these co-creation processes? How can the addressed communities help to prepare the transition to a new "Stakeholder-based governance" at domestic level?

The full presentation offers some reflections for a better understanding of the realization of the EOSC at the present stage at a local level, including the newly established Austrian EOSC Mandated Organisation and the EOSC Support Office Austria.

Austrian Mandated Organisation and the EOSC Support Office Austria

Mandated Organization:

Each Member State or Associated Country that has one or more organizations that are Members of the Association may appoint one Member to act as its Mandated Organization, **to represent national interests**

Austrian Mandated Organization (2021)

Legal Entity – Austrian NREN → ACOnet

Application by the
Austrian Federal Ministry of Education, Science and Research

EOSC Support Office Austria, based at TU Wien

BMBWF



AT Mandated Organisation
ACOnet

EOSC Support Office AT



EUROPEAN OPEN SCIENCE CLOUD

EOSC Steering
Board Member
AT

EOSC
Association,
AISBL

EC

BMBWF
(Ministry)

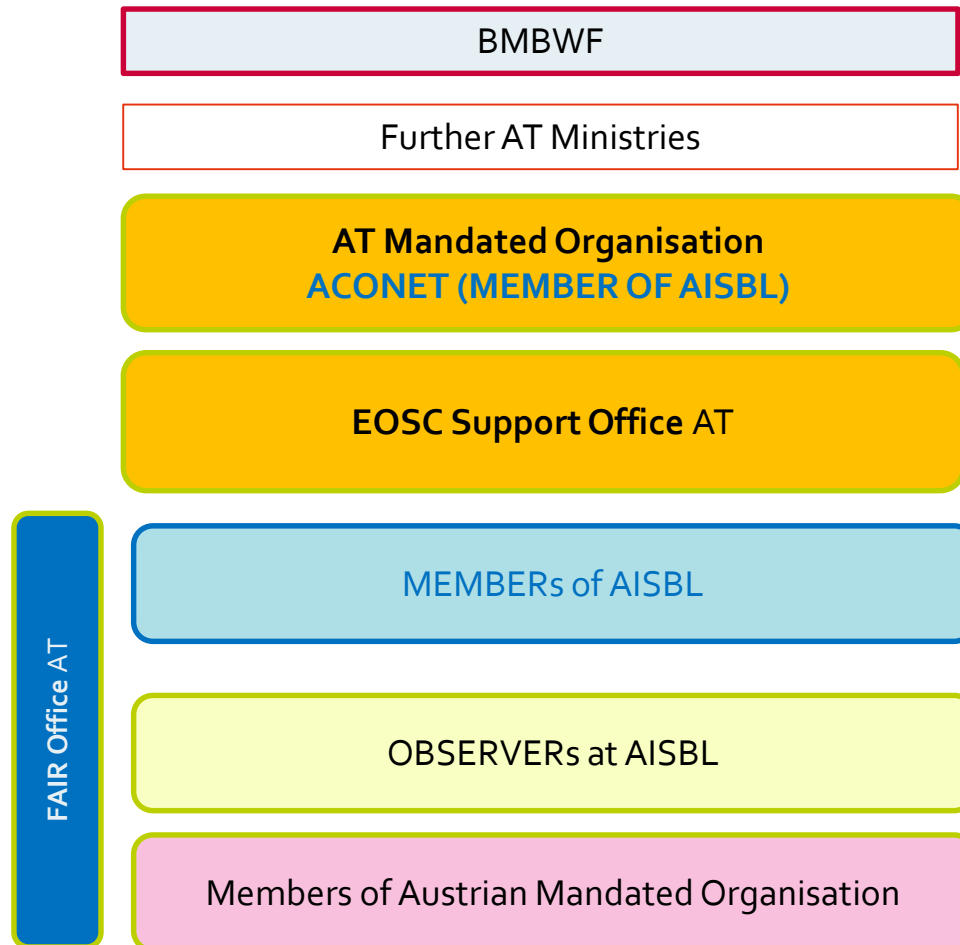
AT Mandated Organisation
ACONET (the Austrian NREN)

EOSC Support Office AT

FAIR Office AT

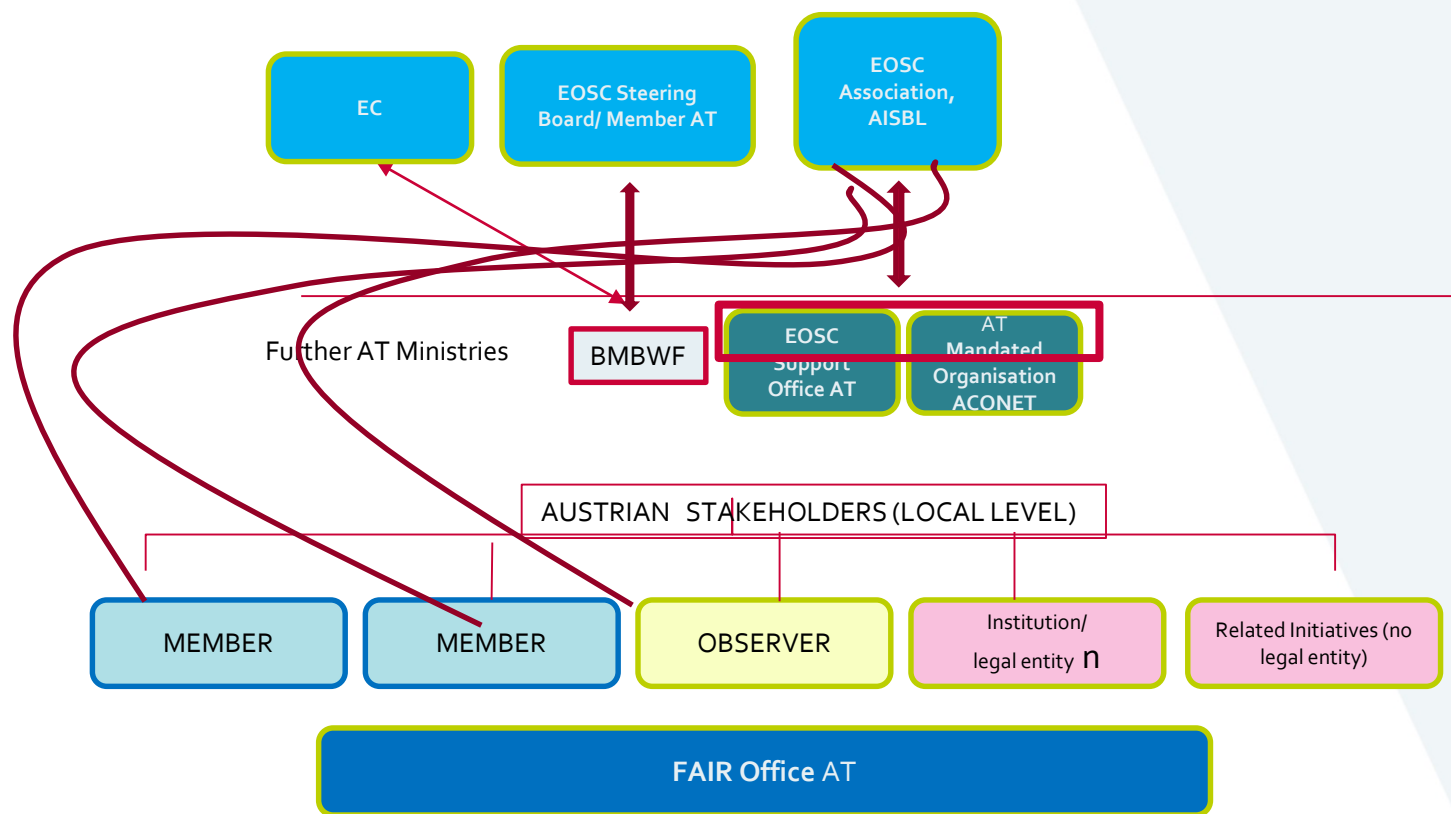
STAKEHOLDERS

EOSC - AUSTRIAN STAKEHOLDERS





Preserve direct interaction with *supra-national levels*



Austrian Stakeholders-Working Instruments



EOSC WIKI

Terms of use of EOSC WIKI

MoU

Description of
rights and duties

FAIR Office AT

The Austrian EOSC Café

EOSC Café: The EOSC Café is coordinated by the BMBWF and was created in the function of an Austrian platform for the exchange of information. It consists of representatives of the Austrian Federal Ministries responsible for science, research and innovation as well as digitalization, various stakeholders from Austrian universities, research infrastructures, museums and funding agencies and of course the Austrian representatives of the EOSC Steering Board, Executive Board, the EOSC Secretariat, the Research Data Alliance (RDA-Austria) as well as the FAIR office AT and EOSC Support office AT.

The dedicated aim of this group is to communicate and discuss the ongoing process of EOSC implementation by fostering the active participation of Austrian researchers and institutions and to provide an “entry point” to the EOSC process.

EOSC on a global stage

- **Service providers from third countries can participate in EOSC but have adhere to EOSC Rules of Participation and applicable legislation**
- **EOSC will work with other regional initiatives towards common goals for Open Science, driving global convergence on standards in support of the implementation of an open science commons**



Thank you for your attention!

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Federal Ministry of Education Science and
Research, Austria
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