

The European Open Science Cloud (EOSC) and the EOSC Secretariat

Paolo Budroni (University of Vienna), Barbara Sánchez (TU Wien)
Austrian HPC Meeting, Grundlsee, 25 February 2019



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



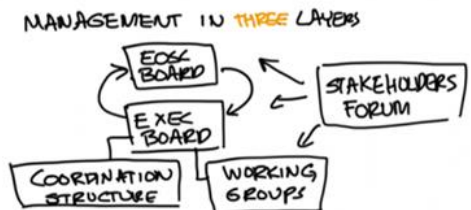
EOSC
2020

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

FAIR WE WANT FAIR

CORE PLAN IS TO
CREATE **FAIR DATA**

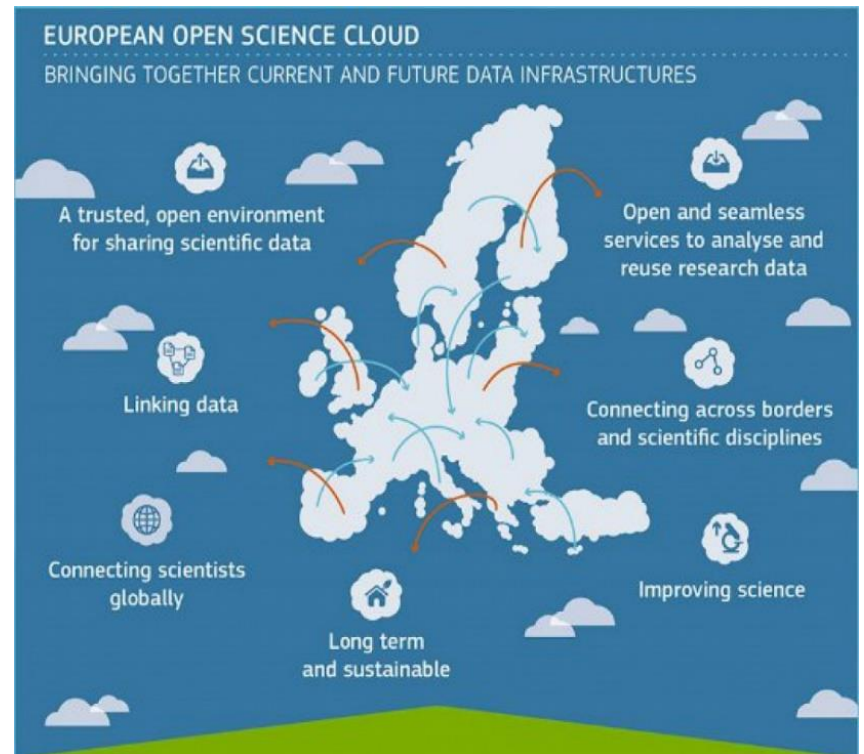


The vision

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 today's fragmentation and ad-hoc solutions**

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



6 lines of action



About Governance Services & Resources Policy EOSC in Practice Media For providers 

EOSC relies on 6
action lines:

Learn more in the EC Staff Working
Document

**ARCHITECTURE,
DATA,
SERVICES,
ACCESS & INTERFACE,
RULES,
GOVERNANCE**

ACCESS EOSC SERVICES & RESOURCES



NETWORKING



COMPUTE



STORAGE



SHARING & DISCOVERY

<https://www.eosc-portal.eu/>

The EOSC Governance 2019-2020

Advise on
the implementation

Steer
the implementation

Contribute to
the implementation

Stakeholder Forum

Users, Service Providers,
Public sector, Industry,
SMEs, etc.

Governance Board

MS/AC delegates and the
European Commission

Proposes
Monitors
Reports

Reviews
Endorses
Orients

Inter
act

EU-funded projects

Nationally-funded projects
and initiatives

Other projects and
initiatives

Extended Coalition
of Doers

Working Groups

WG

WG

WG

WG

Executive Board

European stakeholder organisations
and individual experts)

Supports

Supports

Supports

EOSCSecretariat.eu
Coordination and Support Action

Roles

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

Key issues for the next 2 years

New **governance model** and best-fit **legal vehicle** for after 2020

Financing model(s) to sustain EOSC services in the long run

Rules of participation that will govern future EOSC transactions

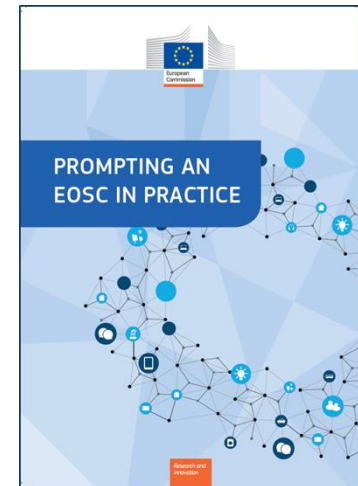
Coordination of **EOSC-relevant national initiatives**

Evolution of the **EOSC Portal** and its interfaces

FAIR digital objects: turning principles into practice

Widening strategy for the **EOSC user base**

EOSC in the **international context**



Turning FAIR into Reality: Report and Action Plan: <https://doi.org/10.2777/1524>
Prompting an EOSC in practice: https://ec.europa.eu/info/events/2nd-eosc-summit-2018-jun-11_en

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**

Financing of the EOSC

Phase 1, until 2020:

- the Commission will invest EUR 300 million to support the core functions of the EOSC as per milestones
- Member States would flag the national initiatives that they want to federate into the EOSC (e.g. the work of the Helmholtz Data Alliance); and the resources they are willing to provide in kind
- Research funders would start making costs eligible for FAIR data only

Phase 2, after 2020:

- To explore a mix of funding including possibly deposit fees from national funders
- Based on a full cost estimate for the running of the EOSC, conducted by the EOSC governance framework in Phase 1



EOSCsecretariat.eu

Setup and management of the EOSC Secretariat supporting the EOSC Governance

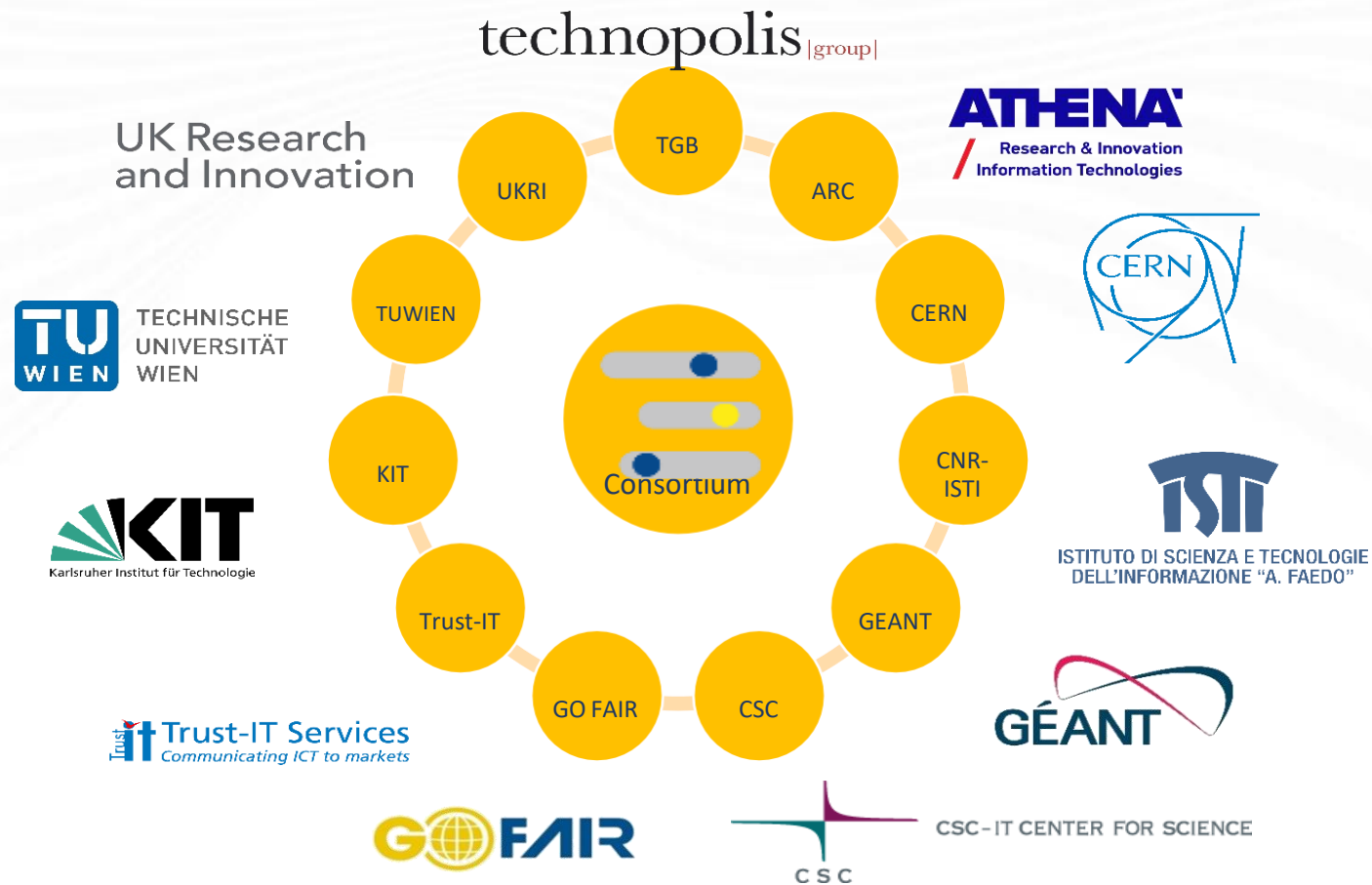
Secretariat support services



EOSCsecretariat.eu has received funding from the European Union's Horizon Programme call H2020-INFRAEOSC-2018-4, grant Agreement number 8316441



Project partners



Setting the scene for 2021+

The EOSC Secretariat, effectively delivering 360° support to the EOSC Governance (**Executive Board** and **Governance Board**), works openly and inclusively together with communities to co-create an all-encompassing European Open Science Cloud.



EOSC Secretariat, independent, neutral, flexible

- Interim character (2019-2020), with an enabling and advisory approach
- Working for and under the supervision of the Executive Board and supporting the Governing Board
- Supporting a user centric EOSC implementation, with the Co-creation budget at the command of the EB

At the heart of the EOSC



EUROPEAN OPEN SCIENCE CLOUD



CHAIR
Karel Luyben,
CESAER



VICE CHAIR
Cathrin Stöver,
GÉANT



Ronald Dekker,
CESSDA ERIC



Rupert Lück
EMBL



John Womersley
European Spallation
Source ERIC



Natalia Manola,
OPENAIRE



Juan Bicarregui,
Research Data
Alliance



Stephan Kuster,
Science Europe



Sarah Jones,
Individual Expert



Jean-Francois
Abramatic,
Individual Expert

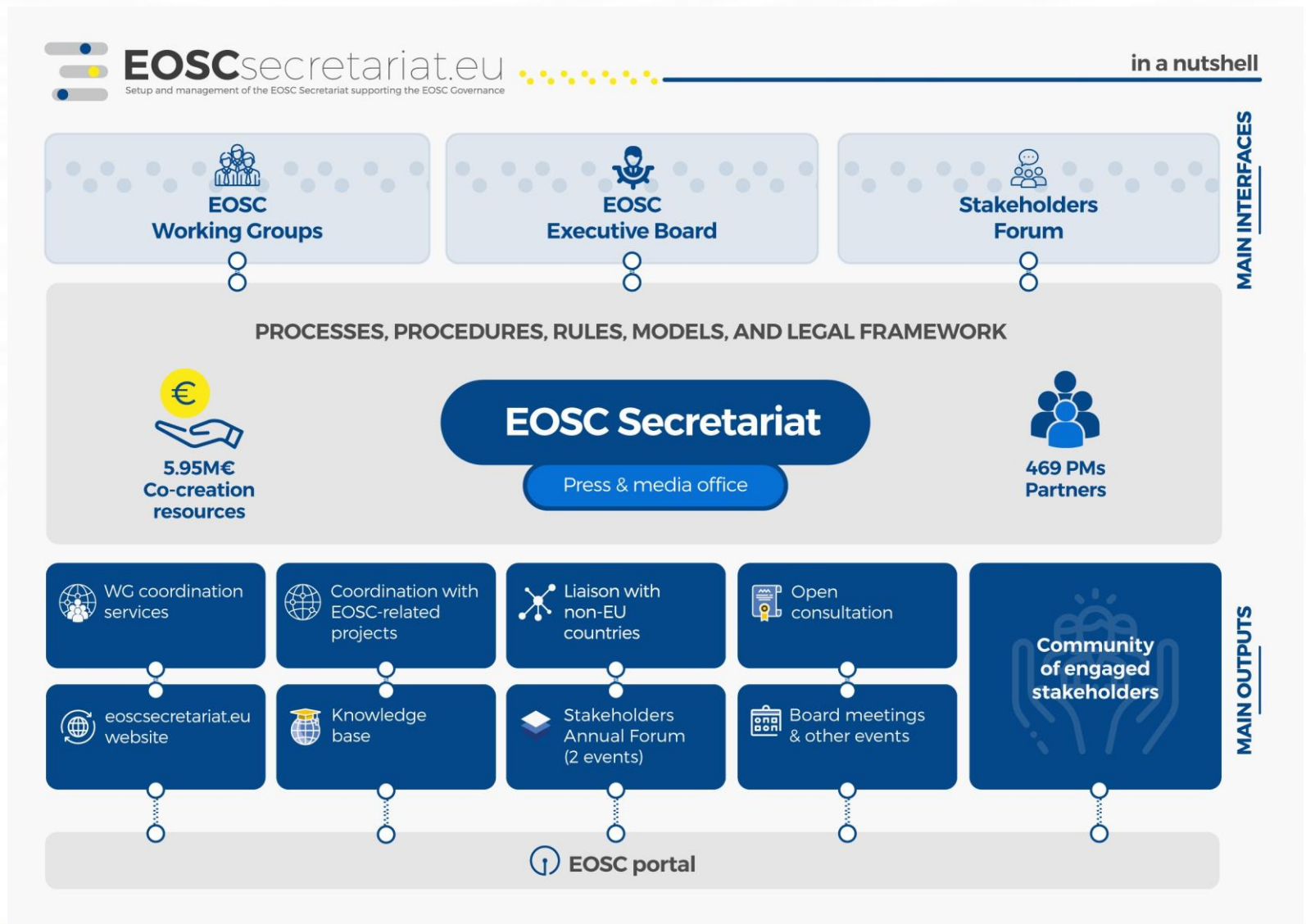


Jan Hrusak,
Individual Expert

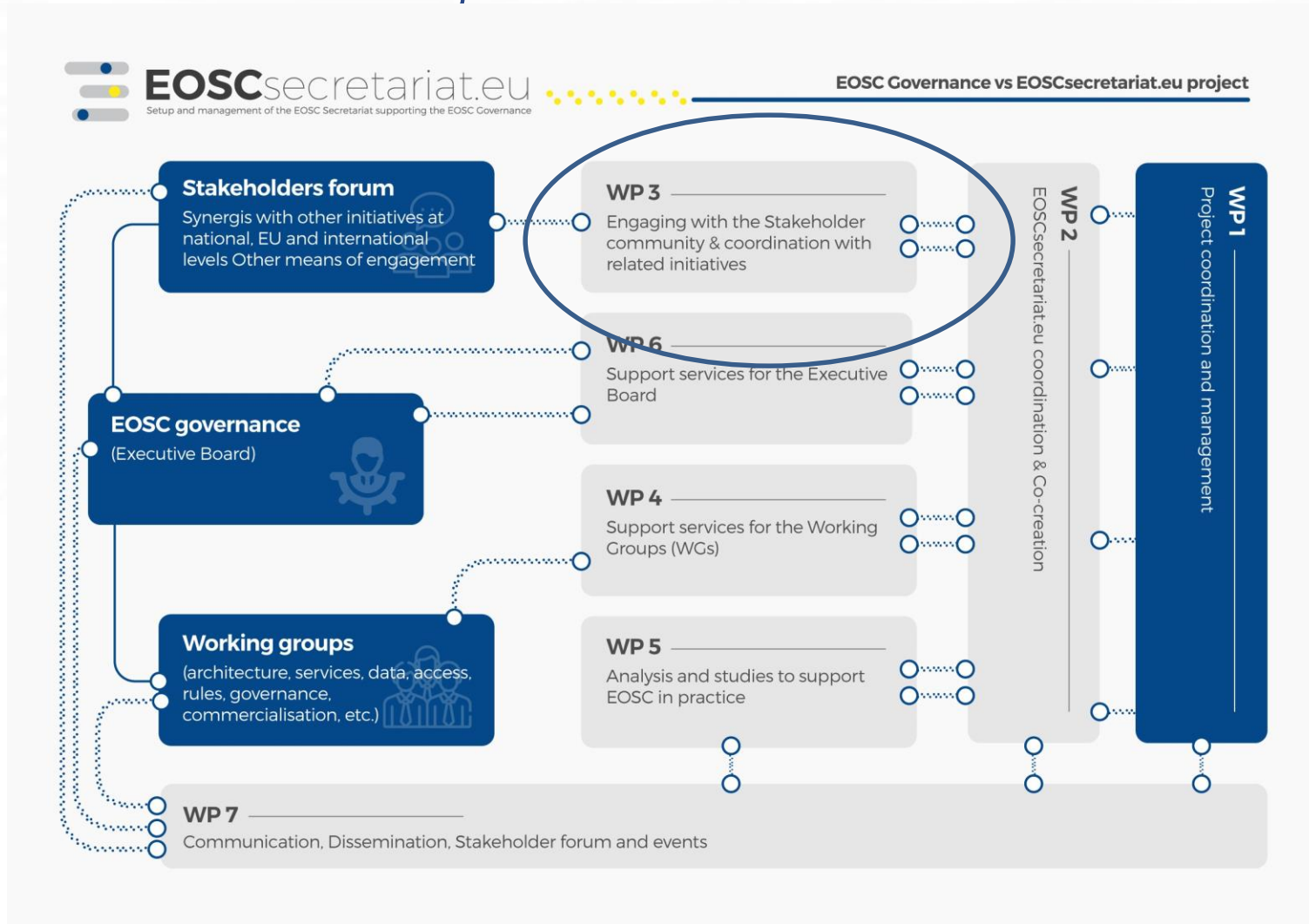
Executive Board

https://ec.europa.eu/info/news/results-call-applications-selection-members-expert-group-members-executive-board-eosc-2018-nov-23_en

Relation with the EOSC Governance



EOSC Secretariat Project Architecture



Addressed stakeholders

Policy makers & Funding bodies (incl. EC)

National & EU e-/digital/infrastructures

National & EU funded projects & initiatives

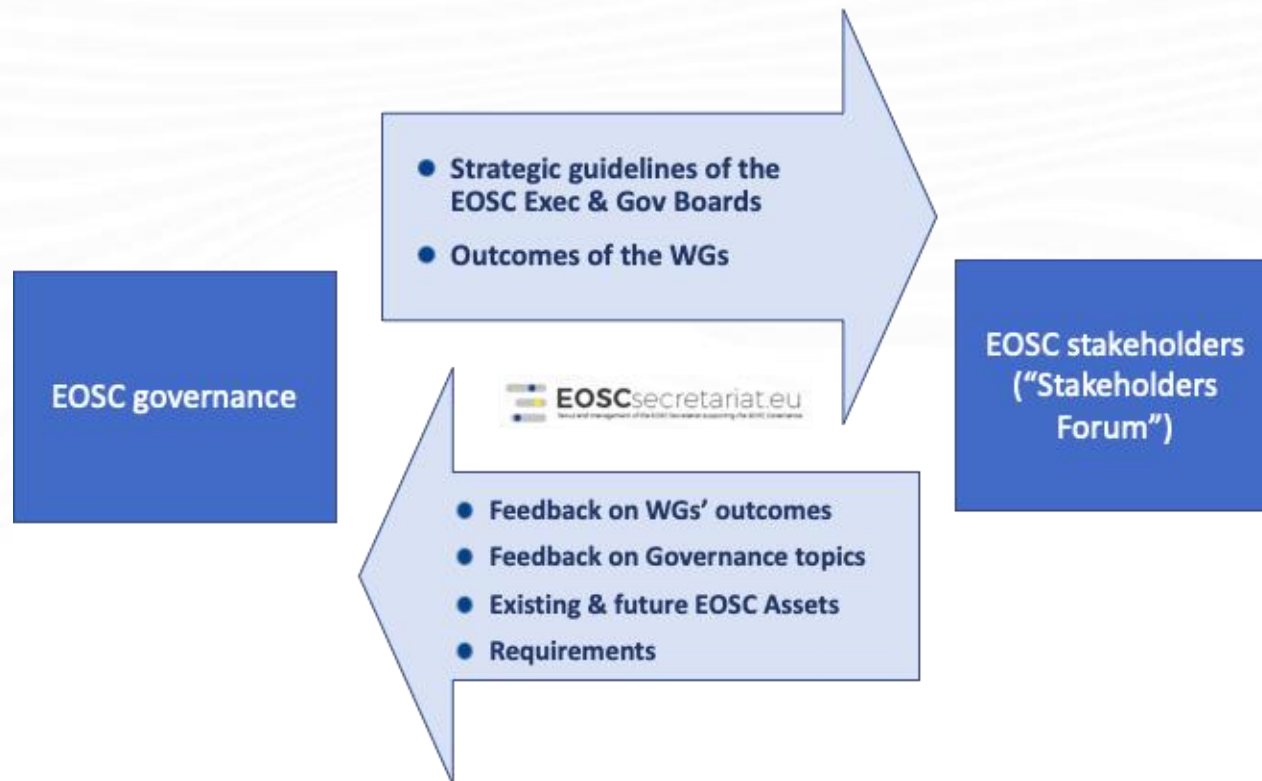
International initiatives & SDOs

Research & Academia Organisations

Researchers and Research Support

Industry and third sector

EOSC Secretariat: modus operandi



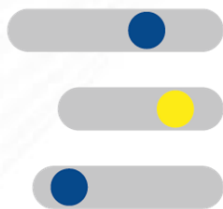
Systematic dialogue via a contact point per addressed stakeholders group (through “Ambassadors” and ongoing online consultations)

"Engaging with the Stakeholders community & coordination with related initiatives" means....

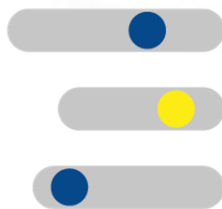
- Coordinate these efforts and initiatives in order to....
- Raise awareness and enhance coordination with and among infrastructure initiative in the Member States (IT - CNR leads)
- Raise awareness and enhance coordination with EU infrastructure initiatives / ESFRI, Elnfra, Thematic Clouds, etc). (DE - KIT Leads)
- Raise awareness and enhance coordination with International infrastructure initiatives (GO-FAIR Leads)
- Engaging with Industry (CERN Leads)
- Engaging with Researchers (AT - TU-Vienna leads)
- Support Services for the Stakeholder Forum (IT- CNR Leads)

..... and prepare the transition to new "Stakeholder-based governance"

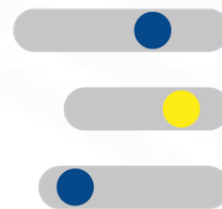
The EOSC Secretariat is at the heart of the activities happening around EOSC. Sign up to our community to receive immediate updates. Here's how you can take a more active role under the EOSC Secretariat:



Benefit from
the co-creation
funding



Have your say on the
EOSC governance
guidelines



Bring your assets to
EOSC



How can the involved **Stakeholders** help?

- Identifying priority topics
- Sharing stakeholder contacts
- Putting the players in contact with relevant initiatives & projects
- Promoting participation in all initiatives
- Requiring responses to collected suggestions by EOSC Governance Board
- Fostering the creation of WGs addressing collected suggestions
- Participating in the co-creation processes

Discussion in re: referring to the HPC-Community in Austria

- [High Performance Computing and the EOSC] European commitment to HPC is clearly demonstrated by the signature of the EuroHPC Declaration by twelve Member States(*) and one Associated State(**) since March 23, 2017. The Member States agreed to work together and with the European Commission in the context of a multi-government agreement called EuroHPC for acquiring and deploying by 2022/2023 a pan-European integrated exascale supercomputing infrastructure that will support data-intensive advanced applications and services. It is a response to the surging demand from scientists, industry and the public sector for access to leading-edge computing capacity to cope with vast amounts of data produced in almost all scientific and engineering domains. This supercomputing and data infrastructure could support the European Open Science Cloud by providing data access and advanced computing and data management services. The EC plans to adopt in January 2018 a proposal for the establishment of a legal instrument (the EuroHPC Joint Undertaking) that provides a procurement framework for the exascale supercomputing and data infrastructure, and supports the development of a full European HCP ecosystem.
- (*) Status 2019: 25 MS (**) Switzerland, Norway
- https://ec.europa.eu/research/openscience/pdf/eosc_declaration.pdf

Setting the scene in Austria ...

[Home](#) [Programme](#) [Venue](#) [Travel](#)

Conference in Vienna, 30th October 2018
**The European Open Science Cloud:
Austria takes initiative**

Österreichischer
Vorsitz im Rat
der
Europäischen
Union

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The European Open Science Cloud

Austria takes initiative

Presidency event
30th October 2018
Kleiner Festsaal,
University of Vienna

www.univie.ac.at/eosc

[Contact](#)

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The European Open Science Cloud (EOSC)

<https://eosc18-ati.univie.ac.at/home/>

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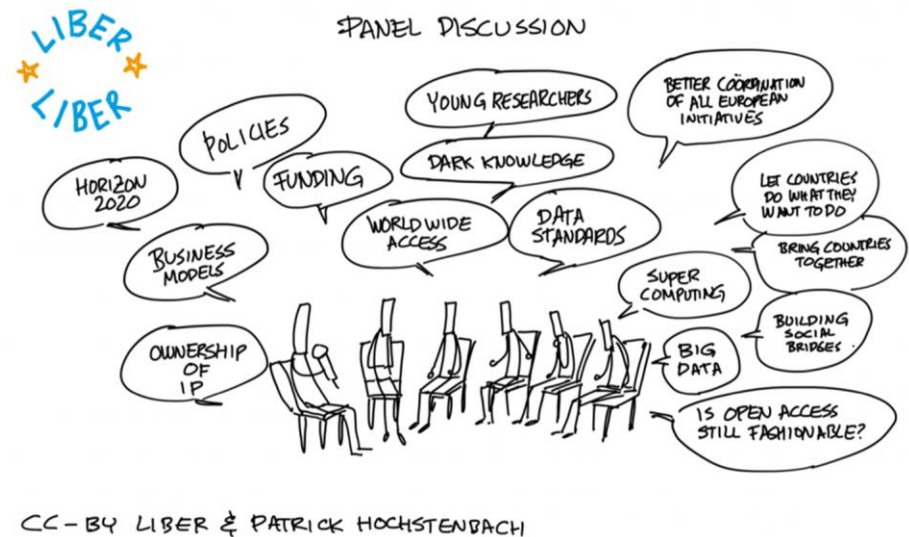
LinkedIn [EOSC Secretariat](https://www.linkedin.com/company/eosc-secretariat)



Thank you

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Austrian participation to the EOSC Secretariat: WP2, WP3

Office TU Wien – Participants: Andreas Rauber (PI) (TU Wien), Barbara Sánchez Solís (TU Wien), Paolo Budroni (University of Vienna)

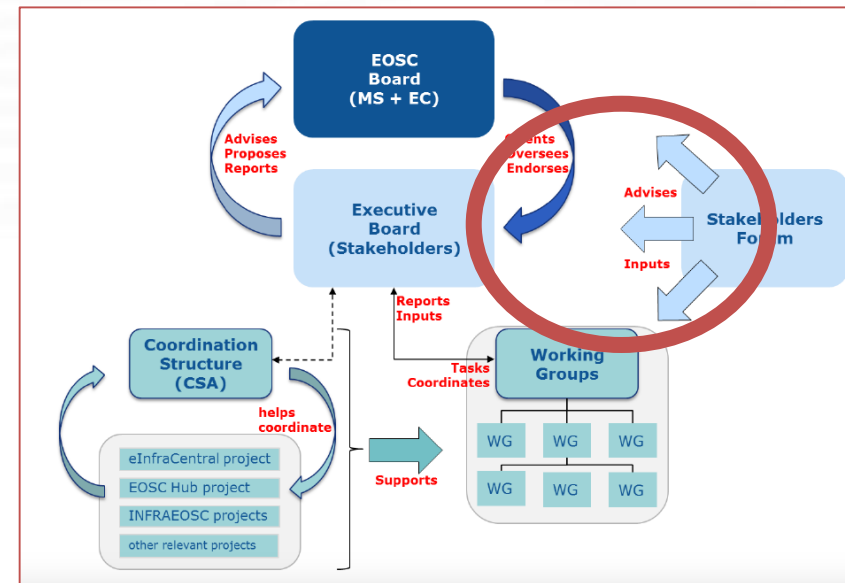
www.eoscsecretariat.eu

Depot

ANSWERING QUESTIONS

Details

- **Engage** with **relevant communities** to ensure that **their needs, requirements, advice and commitments** are reflected and passed on to the EOSC and Executive Boards and to the Working Groups
- To support coordination and consultation with **strategic, thematic, EU or global initiatives**
- To feed the information and the results of the liaison, analysis and engagement activities **into other WPs of the project**
- To support and contribute to the structuring of the EOSC Stakeholders Forum laying the ground for the **transition to the next phase of the governance.**



Details

