

Towards the European Open Science Cloud (EOSC): reflections on a local basis for domestic infrastructures

Paolo Budroni (TU Wien Bibliothek)
„Focus on Open Science“ – Ljubljana 2019



EOSC – Not a cloud made in Brussels ...

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



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THE EUROPEAN SCIENCE CLOUD
 JEAN-CLAUDE BURGELMAN
 EC

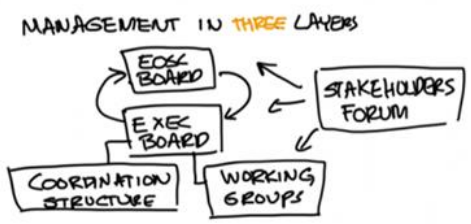
1.7 MILLION EU-RESEARCHER
 WILL GET FREE, OPEN SERVICES
 FOR DATA SCIENCE



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

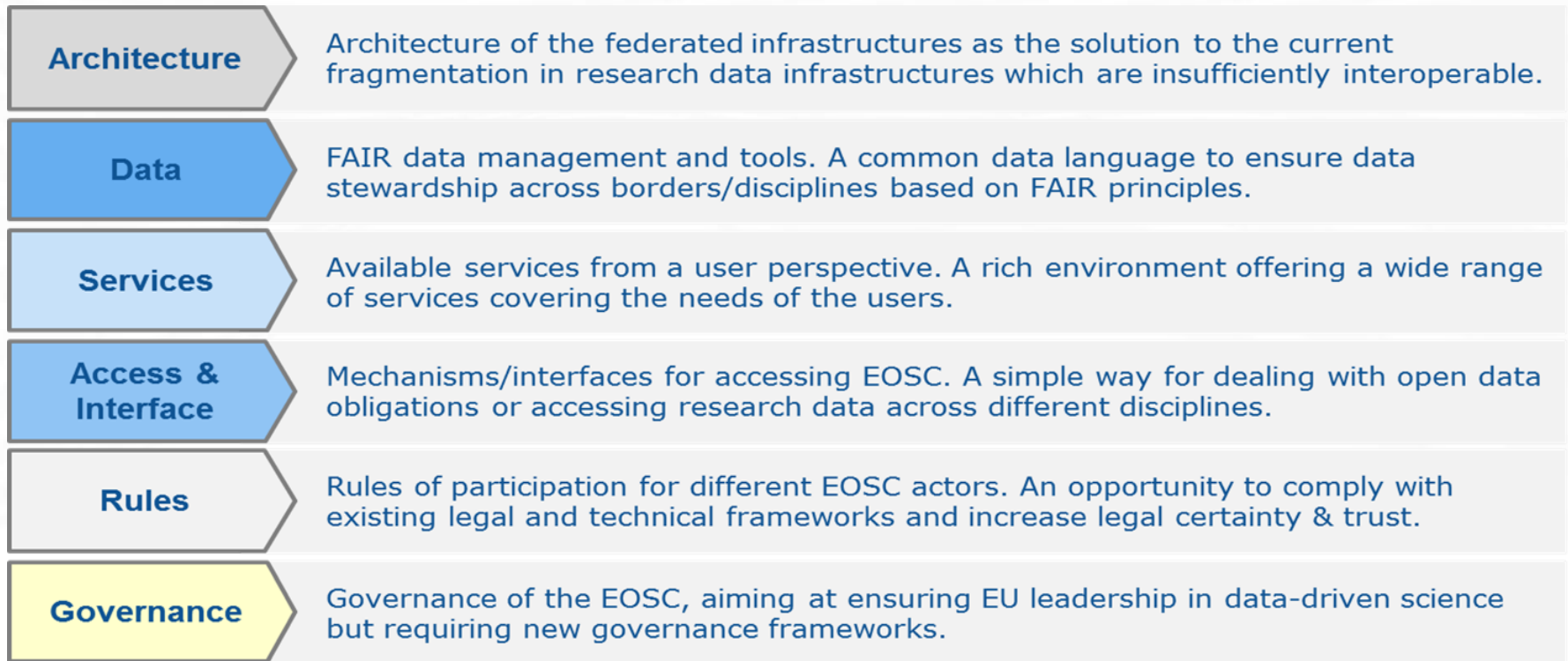


WITHOUT FAIR DATA
 THERE IS NO EOSC
 COST OF NOT HAVING
 FAIR DATA IS INTO THE
 BILLIONS OF EURO
 YEARLY



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EOSC Model: 6 lines of action – These action lines influence the development of the EOSC



Source: Implementation Roadmap for the European Science Cloud (Staff Working Document SWD(2018) 83), 14 March 2018:
<http://ec.europa.eu/research/openscience/index.cfm?pg=open-science-cloud>

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, March 2019

<https://www.degruyter.com/downloadpdf/j/abitech.2019.39.issue-2/abitech-2019-2006/abitech-2019-2006.pdf>

Fachbeitrag

Paolo Budroni, Jean-Claude Burgelman, Michel Schouppe

Architectures of Knowledge: The European Open Science Cloud

<http://doi.org/10.1515/abitech-2019-2006>

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

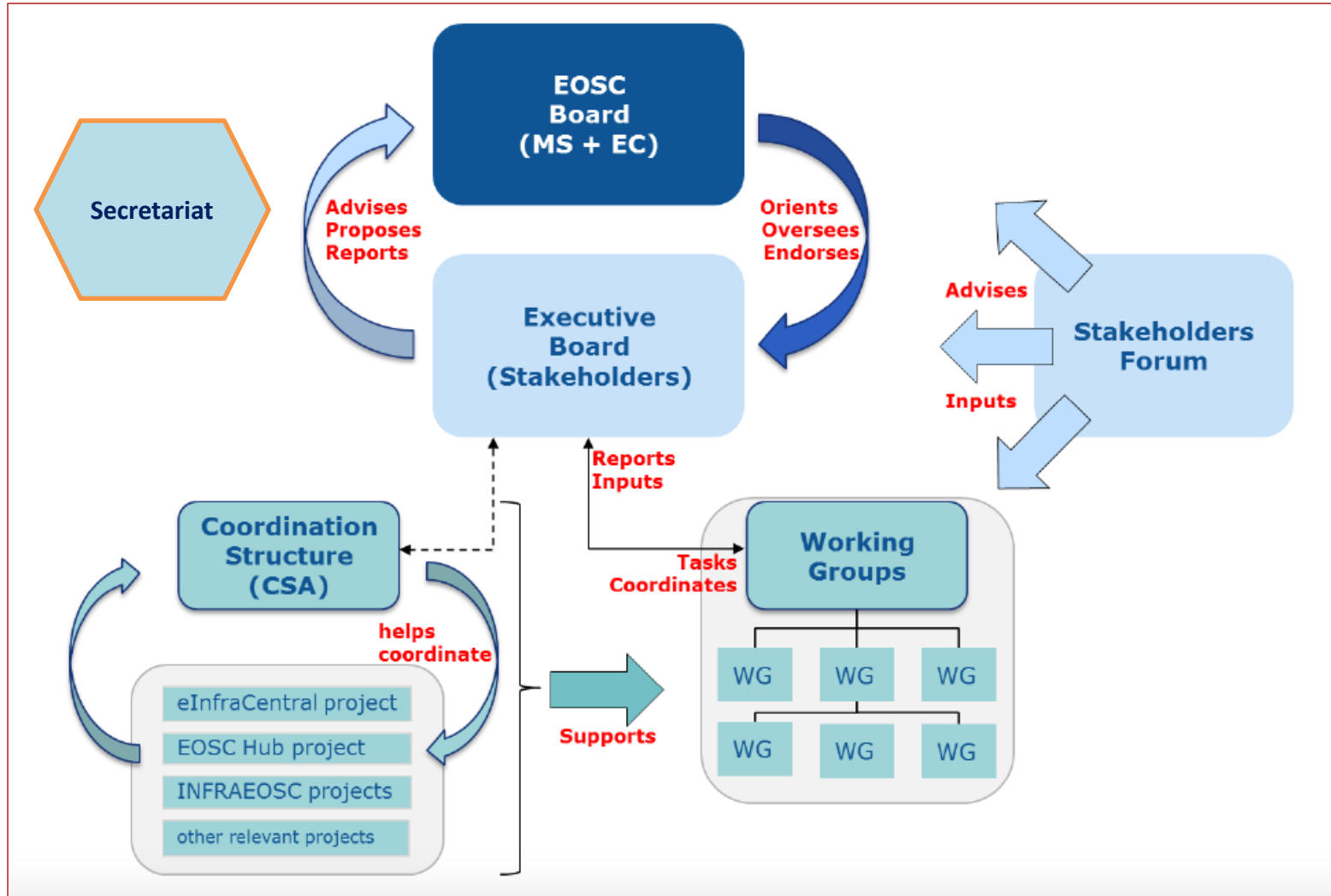
Keywords: European Open Science Cloud, EOSC, Digital Single Market

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.

The EOSC Governance 2019-2020



Projects supporting EOOSC



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.

promote opening up, sharing and reusing of research outcomes.



Setup and management of the EOOSC Secretariat supporting the EOOSC Governance

EOOSC Secretariat

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



EOOSC-hub

EOOSC-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.

cross-disciplinary links to enable such sharing on a global scale.

in Clouds
Research
Environments

Environments
to the European
access to commercial digital
(aaS cloud services), as
and (EO) services.





EOOSCsecretariat.eu

Setup and management of the EOOSC Secretariat supporting the EOOSC Governance

Secretariat support services



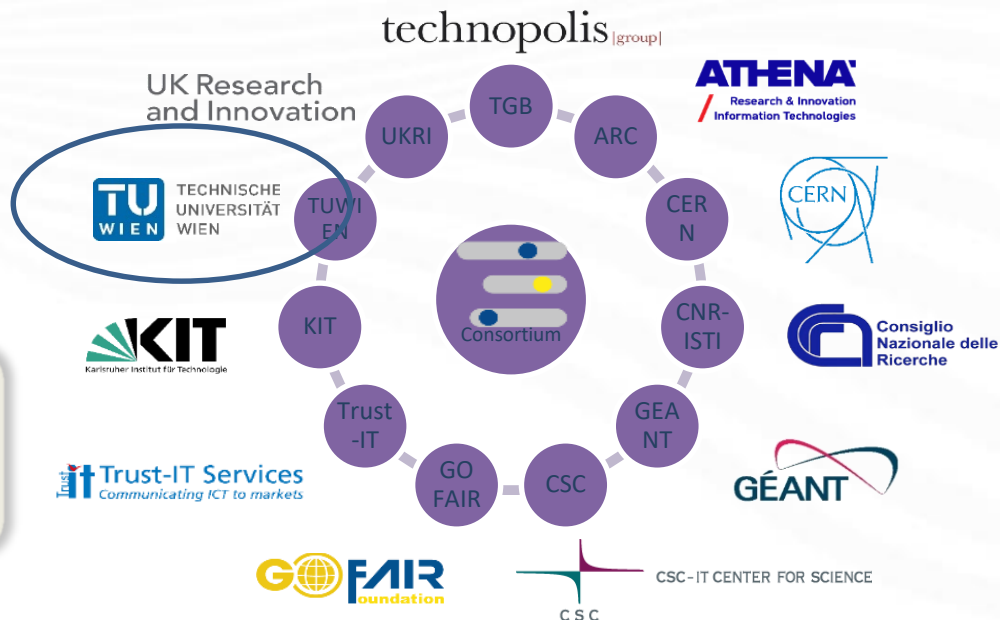
EOSCsecretariat.eu

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.



EOSCsecretariat.eu has received funding from the European Union's Horizon Programme call H2020-INFRAEOSC-2018-4, grant Agreement number 831644.

Partners



Main Objectives



Co-creation funding opportunities



EOSC Liaison Platform for open consultation



EOSC Stakeholder Forum for stakeholder engagement



Set-up of an operational framework supporting the EOSC Governance

EOSC building processes

The **Austrian** participation

TU WIEN TEAM



FAKULTÄT
FÜR INFORMATIK

Faculty of Informatics



Center for
Research Data Management



Why is TU Wien Bibliothek engaged in a relevant EOSC building process?

- Following the positioning of TU Wien (“*technology for people*”) TU Wien Bibliothek acts as a **knowledge hub** in both, in a domestic and in an international context
- Innovative approach: TU Wien Bibliothek acts as an **incubator** for EOSC Stakeholder driven engagement activities in a domestic and crossborder context
- TU Wien Bibliothek **actively supports** a user centric EOSC implementation, with the Co-creation budget at the command of the EOSC Executive Board

Consultations, Derived Strategy

AMBASSADORS

- **communicate** with peers - trust
- need to **obtain** them (e.g. RDA Interest Group)
- **motivate** them: connection to EOSC

INPUT FROM RESEARCHERS TO EOSC

- **give researchers a voice** in shaping and co-creating EOSC
- **meet their needs**
- workshops, panel discussions, world cafés, webinars, Liaison Platform
- **feed into WGs** (specifically rules of participation, services, data)

CLEAR MESSAGE

- envisioning **free at point of use, open and seamless services for storage, management, analysis and reuse of research data** across borders and scientific disciplines („eduroam for data and services“)



Message of TU Wien Team

“EDUROAM METAPHOR”



from a perspective of...

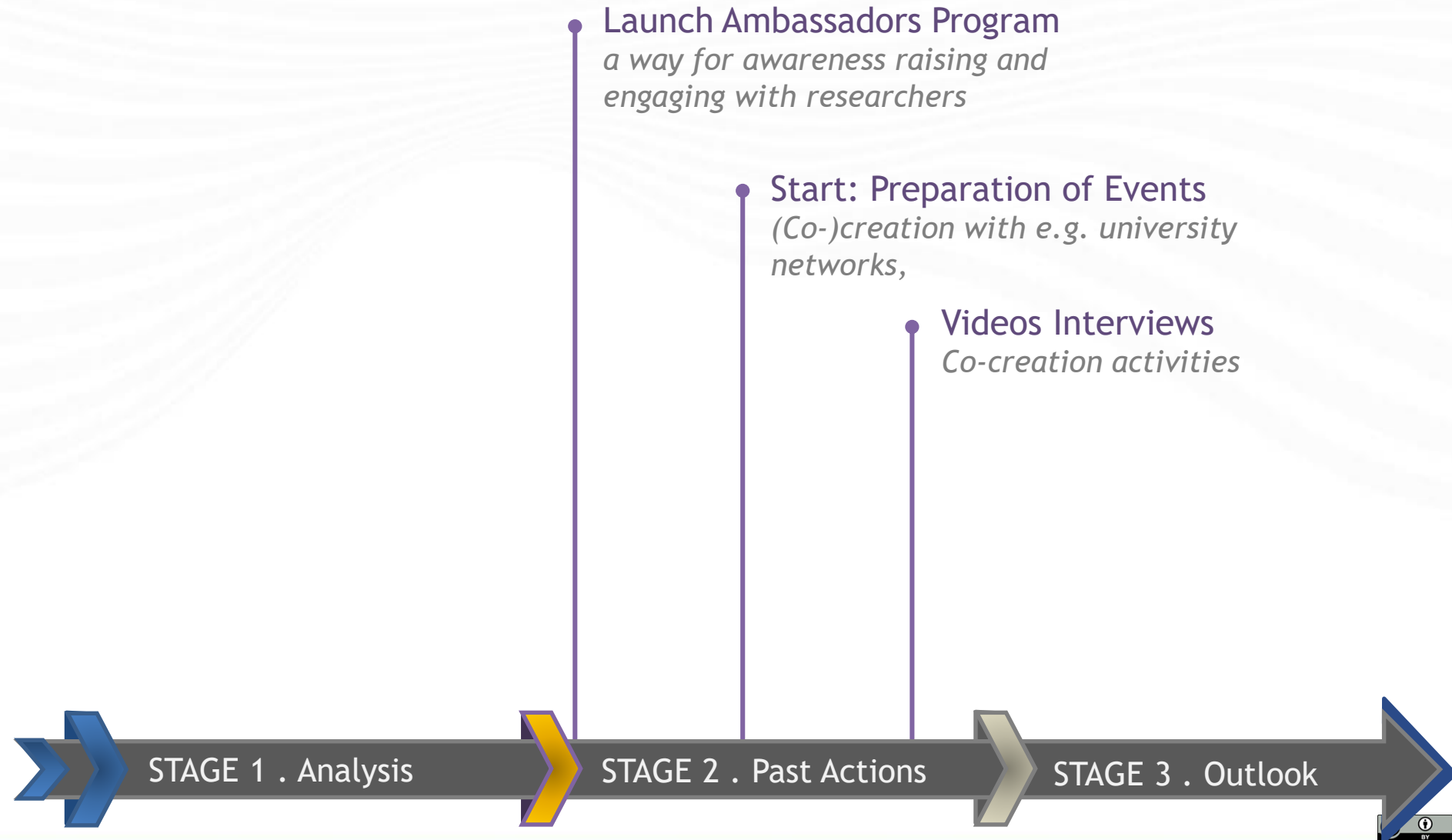
Researchers

EOSC

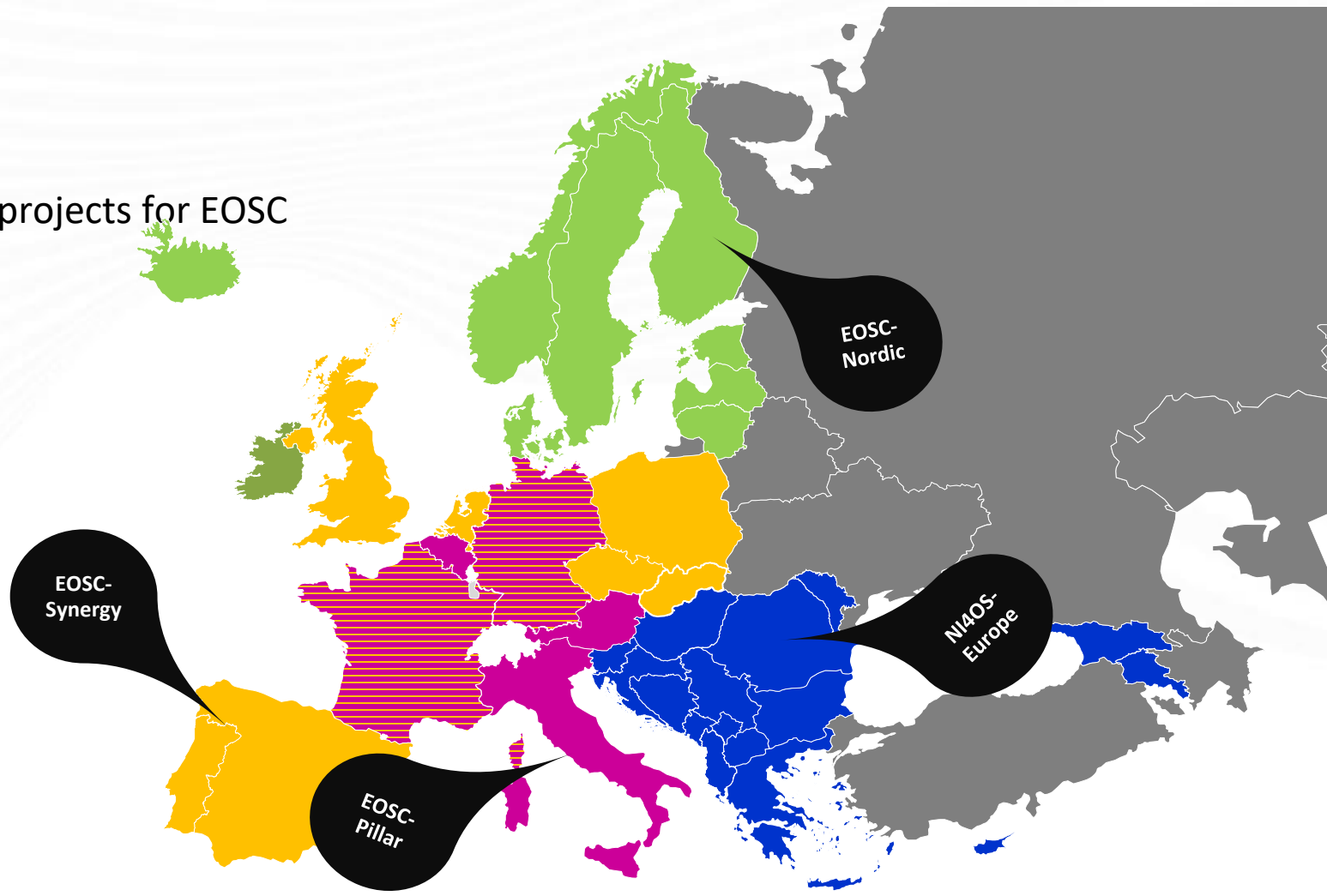
- is Well-known
- is Ubiquitous
- is Transparent
- is Free at point of use
- is Extremely useful

- has rules of participation
- has System architecture including security
- provides a specific (micro-)service
- deals with user data
- has governance

TU Wien Team - Timeline / Actions Taken



Regional projects for EOSC



ABOUT THE CO-CREATION PROCESS

Co-creation opportunities through the EOSCsecretariat

EOSC Secretariat.eu retains a high degree of flexibility in its roll-out plan by adopting a co-creation approach and providing budget for all upcoming, foreseen and unforeseen, activities and actions related to the work of the EOSC Secretariat to support the EOSC Governance.



REQUEST CO-CREATION BUDGET

Do you have an idea for an activity or mini-project that will help us co-create the EOSC? Share your idea now and have the chance for budget to be allotted for your activity!

DOWNLOAD a copy of Co-creation details

[Learn More](#)



CO-CREATION OPEN CALLS

Co-creation activities that have been approved for funding and are launching an open call for bids can be found in this section. Check out the co-creation open calls now!

[Learn More](#)



STUDY SUGGESTION FORM

Studies help the EOSC Working Groups, the Executive Board and the EOSC Secretariat to carry out informed decisions and activities that will help co-create the science cloud. Suggest studies that can be funded by the EOSC Secretariat below.

[Learn More](#)

Co-creation funding and Open Calls, together with opportunities for Study Suggestions for a total budget 5.95M€ are available at www.eoscsecretariat.eu/funding-opportunities

Co-creation approach

The EOSC Secretariat fosters stakeholder engagement by introducing a co-creation approach and a budget for its realization. If you have an idea to help co-create the EOSC and need funding you have the chance for budget to be allocated for your action or activity.

What can be funded?

The proposed requests will have to clearly demonstrate activities which are related to the work of the EOSC Secretariat to support the EOSC Governance, in particular the activities of the [Executive Board](#) Working Groups, the [Governance Board](#) Sub Groups and the [Stakeholder Forum](#) as well as identify the added value to existing EOSC activities, e.g.

- engaging with stakeholders/coordination (initiatives)
- support services for the EOSC Boards
- support services for the EOSC Executive Board Working Groups
- analysis and studies to support EOSC in practice
- communication, dissemination, stakeholder forum/events

Who are the stakeholders your Institution can address?

Researchers & Research Support at your institution

National digital infrastructures

National & EU funded projects & initiatives at your institution

Research & Academia Organisations

Policy makers at your institution

How can your institution support the EOSC building process?

- Your institution can organize **workshops** and know-how transfer on EOSC building processes → ask us
- Your institution can **entice** Research Institutions and Funders to get further engaged with EOSC building processes → ask us
- Your institution can contribute to the creation and development of the right environment for **common** terminologies in EOSC building processes

How can the involved Universities 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 EOOSC Governance Board
- Fostering the creation of WGs addressing collected suggestions
- Participating in the co-creation processes

EOSC Liaison Platform


📍 Want to provide feedback to the EOSC community? Start a discussion here.

Welcome to the EOSC Liaison Platform, an online discussion environment that allows the collection of input and provision of feedback to EOSC governance bodies.


- ▼ Why take an active role in the Forum?
- ▲ What you can do



START A NEW DISCUSSION



SHARE YOUR SURVEYS AND QUESTIONNAIRES



HAVE YOUR SAY ON THE TOPICS AND OUTPUTS OF THE WORKING GROUPS

For disseminating news and events, [contact us](#).

- ▼ Where to start?
- ▼ Who is invited to participate?
- ▼ Rules

Accessible only to group members

[Unsubscribe from group](#)

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Latest updates

[EOSC governance documents](#)

[EB & Working Group public calendar](#)

EOSC Liaison Platform members

[View all members](#)



Have Your Say On EOSC-Hub Initial Proposals For The EOSC Federating Core And Its Governance And Sustainability

By Dale Robertson

EOSC-hub has produced a [Briefing Paper](#) which proposes an open and participatory approach to the definition and provisioning of the EOSC Federating Core based on existing capabilities of e-Infrastructures and research infrastructures. [We invite all stakeholders to provide feedback and insight.](#)

[Read more](#)

[1 comment](#)

[1 new comment](#)

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Architecture

Sustainability

30 JUL 2019

The EOSC Liaison Platform facilitates the collection of input from the community of stakeholders and the provision of feedback to the EOSC Governance bodies.

Join the discussion on the EOSCsecretariat website:
www.eoscsecretariat.eu/eosc-liaison-platform



**Focus on FAIR - FAIR Data and the
European Open Science Cloud (EOSC)**

**7th November 2019
Graz University of Technology**

**8th November 2019
Ljubljana**

EOSC Stakeholder Forum: Symposium 2019

EOSC SYMPOSIUM 2019

AN INTEGRAL PART OF THE EOSC STAKEHOLDER FORUM

26-28 NOVEMBER 2019,
BUDAPEST, HUNGARY

#EOSCSYMPOSIUM

MORE INFO HERE:



[BIT.LY/EOSCSYMPOSIUM](https://bit.ly/eoscsymposium)



Co-located with the first EOSC
Coordination Day 28-29
November 2019, Budapest



EOSCsecretariat.eu has received funding from the European Union's Horizon Programme call H2020-INFRAEOSC-2018-4, grant Agreement number 831644

ORGANISED BY:

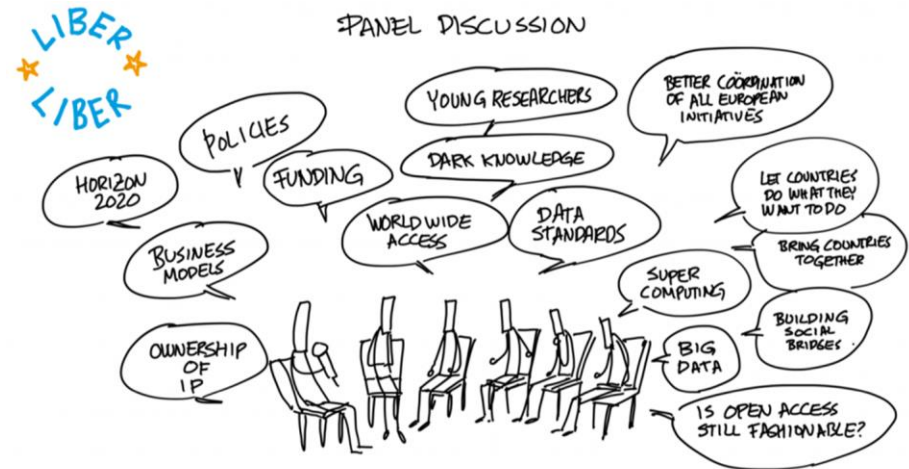


IN COLLABORATION WITH:



Thank you

Paolo Budroni, TU Wien Bibliothek
paolo.budroni@tuwien.ac.at



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*Office TU Wien – Paolo Budroni, Katharina Flicker, Juliana Giroletti,
Andreas Rauber (PI), Barbara Sánchez, Bernd Saurugger;*

e-mail contact: juliana.giroletti@tuwien.ac.at

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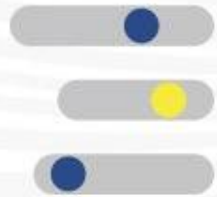
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Thank you!

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