

# WELCOME

## EOSC Support Office Austria 4th General Assembly

TUESDAY, DECEMBER 17TH, 2024  
UNIVERSITY OF VIENNA  
1 PM TO 5 PM



# Icebreaker Questions

Please go to **slido.com** and enter the following access Code:

**#3786317**

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## **Ilire Hasani-Mavriqi**

Chair of the General Assembly – EOSC SOA and delegate of  
the Austrian EOSC Mandated Organisation

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# Introduction

## Austrian EOSC Mandated Organization: ACONET Association

- plays a strategic role in advancing the Austrian NREN
- serves as a legal entity for the Austrian scientific and academic community

## The operational body: EOSC Support Office Austria

- Launched in 2021, serves as the central coordinating body for Austrian stakeholders, aligning national efforts with EOSC goals
- A dynamic network uniting **universities, museums, research institutions**
- A growing community of researchers, research support staff, data scientists, IT professionals, cultural heritage experts and policymakers in Austria
- **Umbrella organization** for the **Austrian EOSC National Node**, fostering collaboration and enhancing **Austria's participation in the build-up phase of the EOSC Federation**

# EOSC SOA Governing Bodies (MoU)

- The **General Assembly (GA)** acts as the representative body and as the final body responsible for decision-making
- The **Management** ensures the optimisation of processes and acts as an intermediary for the coordination between the partners of the initiative. It consists of the **Management Board** and the **Secretariat**
- The **Steering Committee** provides the basic orientation of the initiative
- The **Synergy Team** coordinates the work of the **Working Groups**
- The **EOSC Café** is an Open Forum providing external stimulus

# EOSC SOA Participation

- [EOSC Association Task Forces](#)
- [Opportunity Area Expert Groups](#)
- [Projects](#)
- [EOSC Federation Handbook](#):
  - The EOSC Federation Handbook will comprehensively address the purpose, structure, governance, architecture and operations of the EOSC Federation



Technical and Semantic Interoperability Task Force



FAIR Metrics and Digital Objects Task Force



Health Data Task Force



Long-Term Data Retention Task Force



OA Expert Group:  
Persistent Identifiers



OA Expert Group:  
FAIR Assessment and Alignment



OA Expert Group: Skills, Training,  
Rewards, Recognition and Upscaling



# EOSC SOA Engagement

## Events:

- [FAIR-IMPACT Roadshow – Austria](#) 19.6.2024
- [FAIR Implementation Workshop – Introduction to Mandated Organisation and the national FAIR](#)

## EOSC-A Mandated Organisations:

- [Regular EOSC-A meetings](#)
- Node exchange group

## Community Consultation:

- [EOSC Nodes](#)
- [Multi Annual Roadmap \(MAR\) 2026-27](#)
- [EOSC Federation Handbook](#)



# Build-up phase of the EOSC Federation

- With the public launch of the [EOSC EU Node](#) at the EOSC Symposium in October 2024, [the build-up phase of the EOSC Federation](#) has kicked into high gear
- One single node is not enough: additional EOSC Nodes need to be established and enrolled into the EOSC Federation

<https://eosc.eu/building-the-eosc-federation>

## EOSC EU Node -Your Gateway to Open Science

**Open Science** is at the centre of European research policy aiming to make science more accessible, efficient, transparent and robust.

The **European Open Science Cloud** (EOSC) is an enabler of Open Science, and data-centric research in Europe a **federated** multi-disciplinary network of distributed **nodes** operating under a common framework offering a **consolidated** pan-European access mechanism to FAIR research data, publications, and services.



<https://www.youtube.com/watch?v=67mirPt-FhY>



The **EOSC EU Node** is the first European-level gateway of the emerging EOSC Federation, made available to a wider research community by the European Commission.



## EOSC Nodes – Questionnaire

- **121 Submissions**
- **Findings:** Strong community interest reaffirmed through a high number of positive responses



# Build-up phase of the EOSC Federation

## Two-Stage Dialogue Process

29 organisations have been identified by the Tripartite Governance

Potential Candidate Nodes (first wave) invited to participate in first-stage dialogue meetings

<i>First-stage dialogue Meeting 1</i>	<i>First-stage dialogue Meeting 2</i>	<i>First-stage dialogue Meeting 3</i>	<i>First-stage dialogue Meeting 4</i>
ACTRIS ERIC ARIADNE RI CERN CLARIN ERIC CNR (Blue-Cloud) CNRS-LAPP (ESCAPE) ESRF (PaNOSC)	BITP CNRS (Data Terra) CVTI SR Foundation ICSC HUN REN Lux NDS NCN NFDI	ACOnet / EOSC Support Office Austria ARNES CSC – IT Centre for Science DeiC EUDAT NRIS SND SRCE SURF	BBMRI ERIC Elixir Hub EMBL Euro-Biolmaging ERIC Instruct ERIC

<https://eosc.eu/eosc-about/building-the-eosc-federation/contributing-to-the-build-up-phase-of-the-eosc-federation/>

# Build-up phase of the EOSC Federation

## Two-Stage Dialogue Process

**ACONET Verein / EOSC SOA** participated in the **first dialogue** with the Tripartite Group (10.12. 9:30-12:30)

### Objectives

- Present key **goals/deliverables** of the build-up phase & **timeline**
- Discuss the **expectations of candidates** in joining the Federation
- Clarify and confirm expected levels of **commitment** and required resources

A subset of organisations will join a **second dialogue** in January – February 2025, leading to the selection of 7-10 candidate EOSC Nodes for the first wave of enrolment

The first wave of candidate EOSC Nodes will launch the build-up phase in early 2025



# 1st Dialog Main Takeaways

- The EOSC Federation is generally perceived positively
- First pilot nodes (1st wave) aim to address open questions:
  - Business models
  - Cross-border service provisioning
  - Public organizations – procedures and conditions under which institutionally or nationally funded services can be offered
  - Demonstrating practical benefits
- Some Candidate Nodes have clearly committed to participating and actively tackling these issues
- ACONET Verein / EOSC SOA will participate in the subsequent waves

# EOSC SOA Next Steps

- Leverage the Austrian EOSC Node concept to consolidate national Open Science efforts, minimizing fragmentation
- Lead proactive dialogue to align national efforts and establish a focused working group involving universities and Open Science initiatives
- Address critical topics such as governance, business models, technical challenges, and knowledge sharing
- Promote the EU EOSC Node among Austrian researchers
- Organize capacity building events to educate and engage the community about EOSC developments

# Austria Country Profile

Status Q4/2024

Barbara Sánchez, 17 December 2024

21

networks & consortia on RDM, FAIR, Open & Citizen Science

3

under **INFRA-EOSC**

7

active Horizon projects on Open Science & FAIR

28

active digitization projects with BMBWF seed funding

1

National Open Science Policy

+2

Funders' Open Data Policies

11

RDM & Open Science Policies at Universities

54

publication servers

2.492

Austrian **Research Infrastructures** – Open for Collaboration

32 labelled “Cluster EOSC”

7 **ERICs**

with Austrian participation  
(1 more coming)

2

**Data Steward Certificate Courses**

2

nation-wide PID services

+8

discipline-specific

+15

Public Sector Information data portals

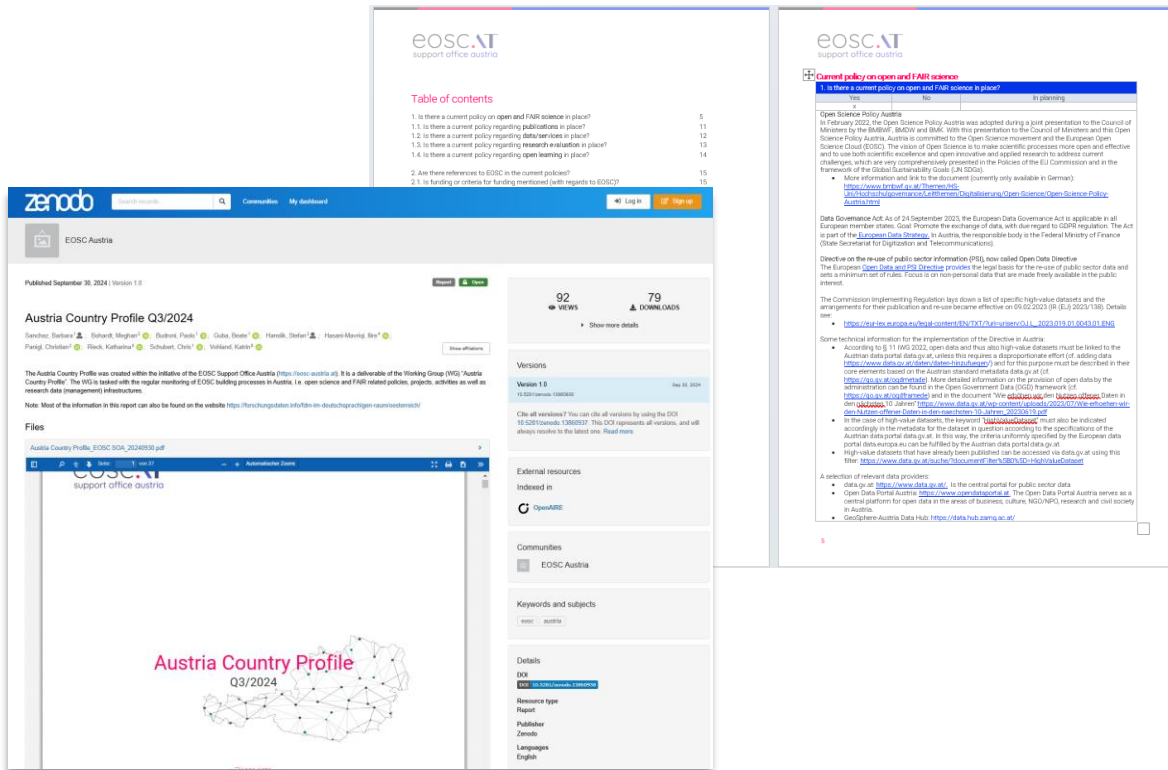
+

**HPC Infrastructures** and membership with EuroHPC

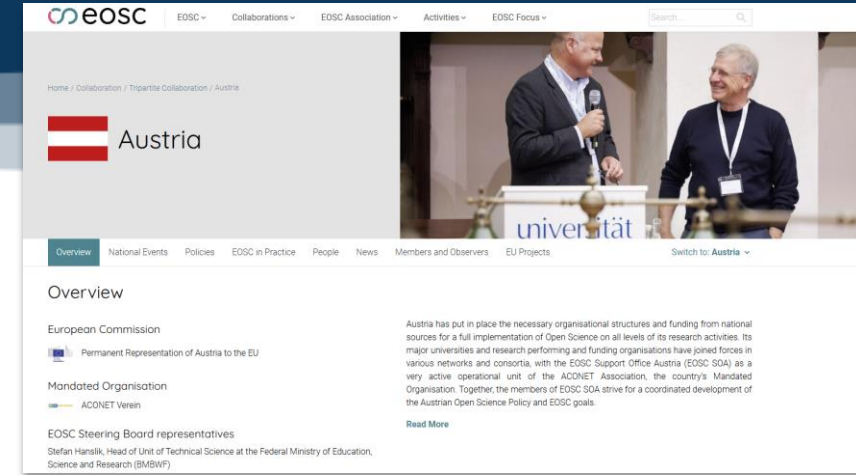
14

institutional **data repositories**

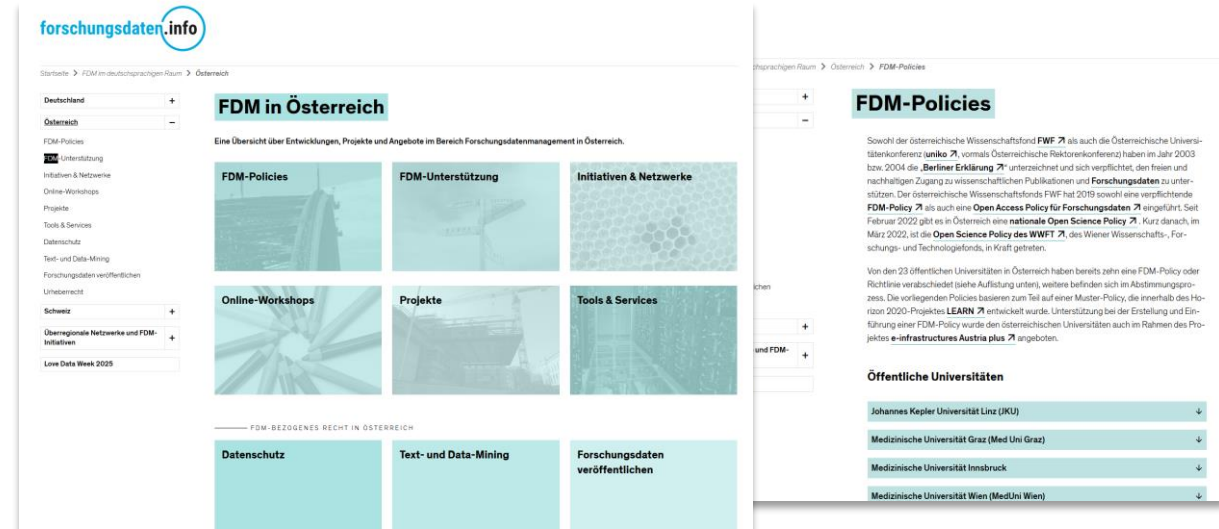
# We try our best to keep our communities informed!



Austria Country Profile  
<https://doi.org/10.5281/zenodo.13860938>



EOSC-A Country Pages  
<https://eosc.eu/tripartite-collaboration/austria/>



RDM overview for DACH region  
<https://forschungsdaten.info/fdm-im-deutschsprachigen-raum/oesterreich/>





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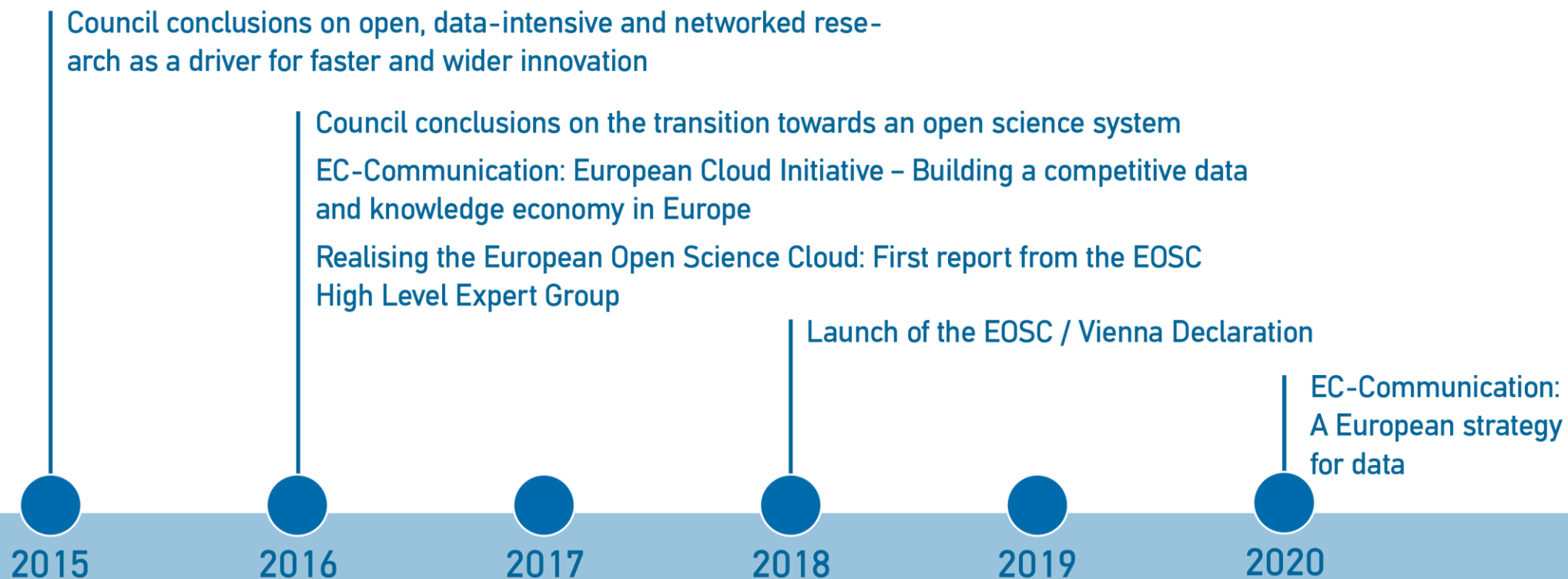




# Building the EOSC – A brief review and outlook

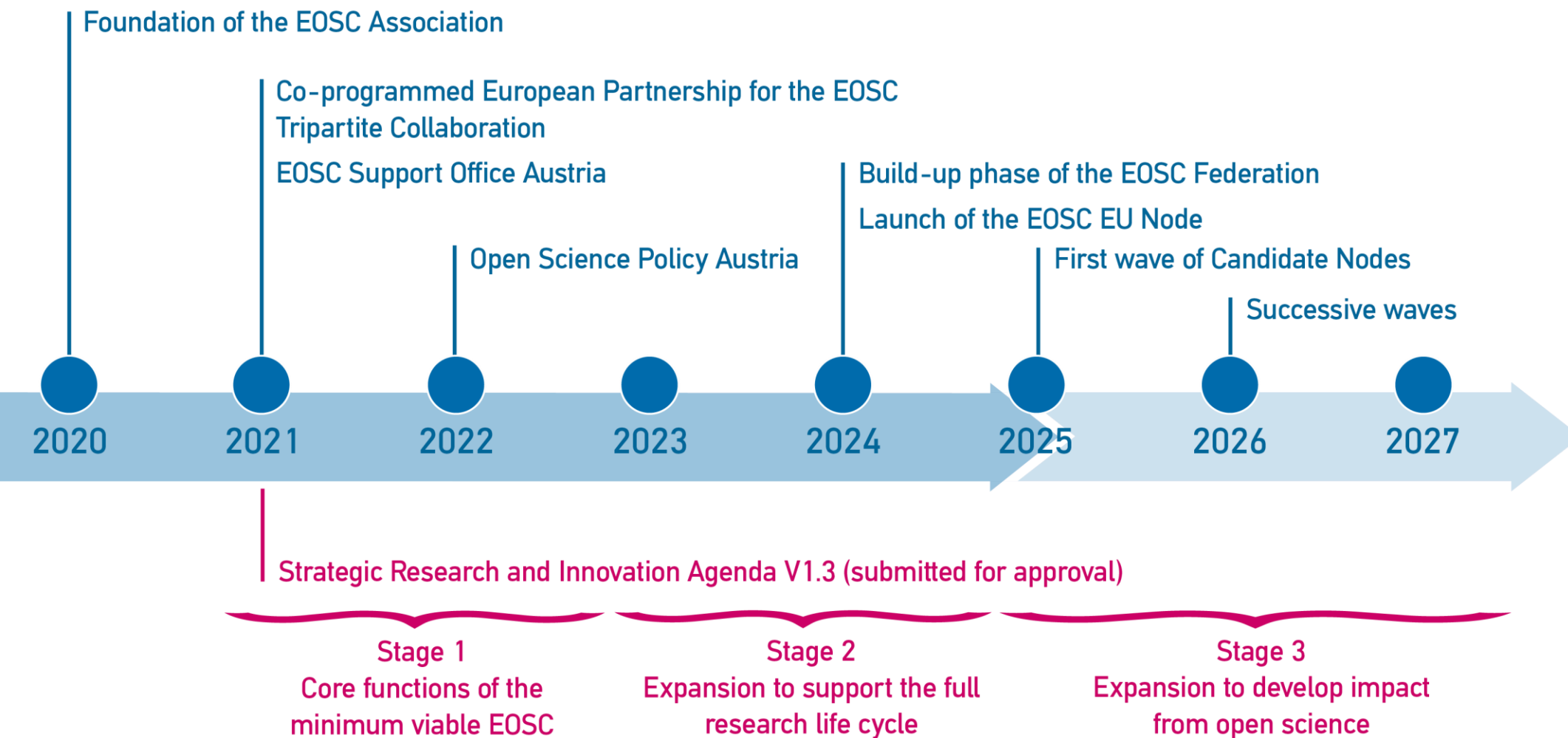
Steering Committee  
represented by Beate Guba, TU Wien, Library Director

# From past ...

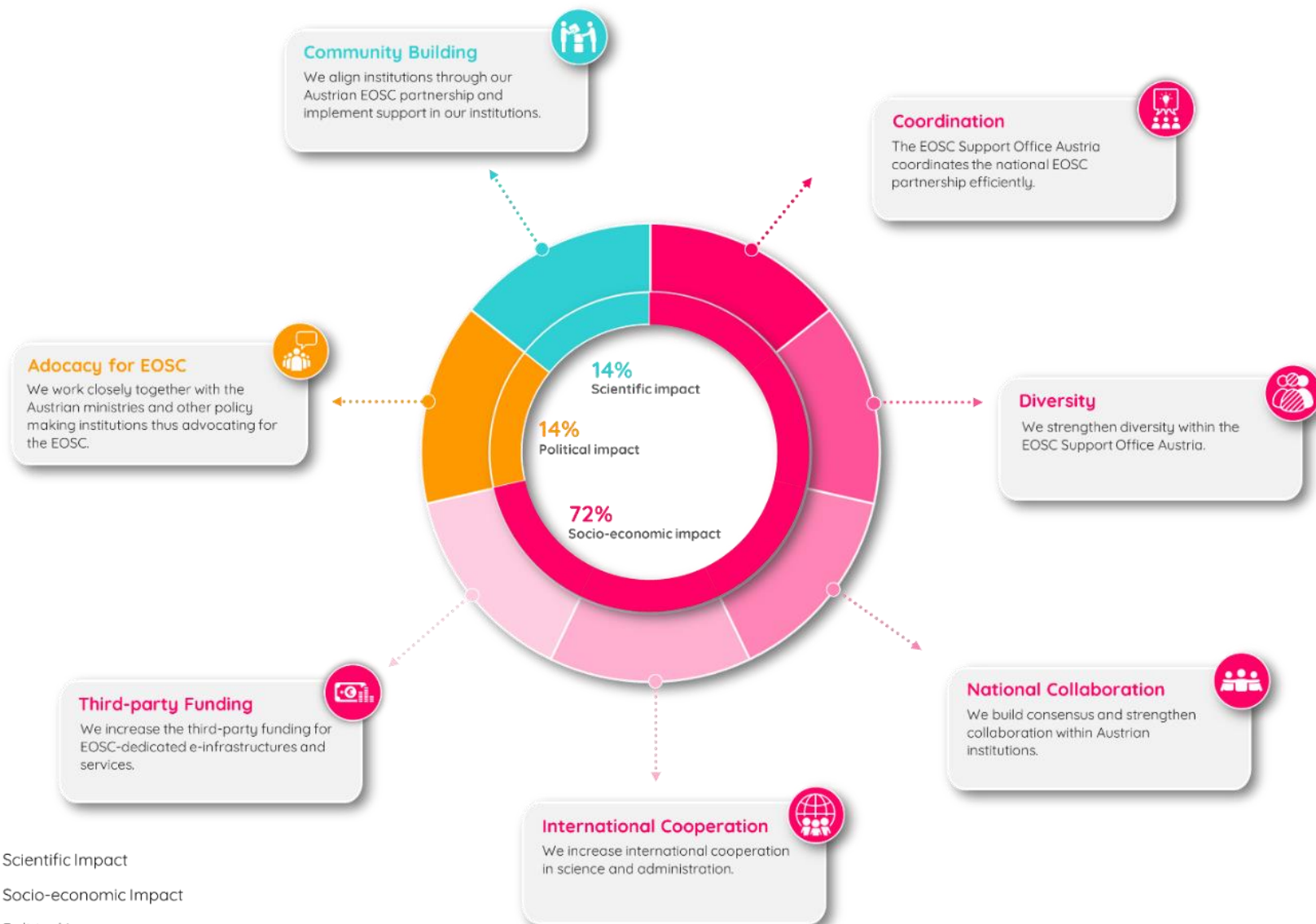


Vienna Declaration: 'We therefore declare to work together towards realising the potential of the European Open Science Cloud for the benefit of citizens, society and the economy.'

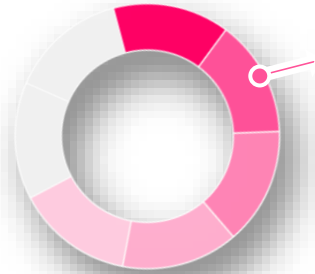
# ... to present to future



# EOSC Support Office Austria: Key Performance Indicators



# Socio-economic impact



2022

Starting point of monitoring, evaluation, assessment

2025

Starting point for Social Network Analysis



## Diversity

We strengthen diversity within the EOSC Support Office Austria.

Indicators	Methods	Types of institutions
<ul style="list-style-type: none"> <li>diversity of partners</li> </ul>	<ul style="list-style-type: none"> <li>qualitative description of role and relevance of the partners</li> <li>Social Network Analysis</li> </ul>	all types
Data collection frequency	Source of data	Dissemination channels
Every third year	Management Board (Chairperson)	<ul style="list-style-type: none"> <li>website</li> <li>Austria Country Profile</li> </ul>
Status 12/24		
<ul style="list-style-type: none"> <li>Universities: 8</li> <li>Museums: 1</li> <li>Libraries: 8</li> </ul>	<ul style="list-style-type: none"> <li>Ministries: 1</li> <li>Funding bodies: nil</li> <li>Others: 6</li> </ul>	

Note: Multiple assignment of university libraries (type universities and libraries)



A...kademie der bildenden Künste Wien  
Academy of Fine Arts Vienna



Federal Ministry  
Republic of Austria  
Education, Science  
and Research

EOSC.AT  
support office austria

# Transition to a fully operational mode of the EOSC from 2025 onward

- Aligning our governance and our service portfolio with the EOSC Node requirements to become a national EOSC Node, thus enhancing the EOSC Federation
- Further contributing to the EOSC Association Opportunity Area Expert Groups and Task Forces
- Linking with other Common European Data Spaces
- Strategically expanding our Austrian EOSC community
- Securing sustainable funding by the ministry

# Thank you!

[www.eosc-austria.at](http://www.eosc-austria.at)

**Beate Guba**

First Speaker of the Steering Committee

[beate.guba@tuwien.ac.at](mailto:beate.guba@tuwien.ac.at)



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Supporting





# The Year in Review

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Secretariat and Management Board  
Activities 2024

Matthias Schwarz, CCCA  
(on behalf of Tereza Kalová)

Management Board

EOSC Support Office Austria

# Vision for 2024

EOSC SOA as both a community and resource hub for Open Science and EOSC developments in Austria.

# Focus Areas for 2024

- General Communication
  - Content as an Added Value
  - Community Building and Engagement
- ✓ While maintaining back-office & support activities

# Progress: General Communication

## General Communication

- ✓ Overhaul of website
  - Events and Calls updated weekly
  - SOA Materials page
  - EOSC Resource Hub
- ✓ Newsletter: bimonthly, highlighting community activities
- ✓ Alignment with EOSC Secretariat  
(incl. EOSC Forum, EOSC-A Newsletter)

# Progress: Content as Added Value

## Knowledge Snacks

One-page “bite-sized” Open Educational Resources

- ✓ What is a PID?
- ✓ The FAIR Principles
- ✓ Some Common Misconceptions about FAIR

2 more planned: Open Data and The CARE Principles

- ✓ Findable and downloadable on Zenodo and in OER Hub Austria



# Progress: Community Engagement

- ✓ FAIR Impact Roadshow in June
- ✓ Successful first EOSC SOA community event
- ✓ Community and Stakeholder Engagement Plan (on CoLab)
- ✓ Articles: ERCIM News & Neues Museum
- ✓ Reference Points at Member Institutions:
  - Consultation on MAR 2026-27 & Handbook
  - Quarterly email with funding calls and important events

## Bringing EOSC Task Force Outcomes to the Austrian RDM Community



Online Event  
Hosted by the  
EOSC SOA Secretariat  
7 October 2024  
13:00-14:30



# International Engagement

- Exchange with EOSC CZ Initiative in Brno
- Summer School in Novi Sad - BEAMING Project (Horizon Europe)



# Working Groups

## Continuing in 2025

- Researcher Engagement WG

## Discontinued as of Jan 2025

- Austria Country Report
- Collections
- Technical Infrastructure
- Training
- Synergy Team

# Thank you!

We especially thank **Tereza Kalová** for her leadership as Management Board Chair.

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THE NEWEST  
EOSC SOA PARTNERS!

WELCOME

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# ACONET Community Programme

A Brief Insight



# ACONET Community

ACOnet: 270+ Participating Organizations

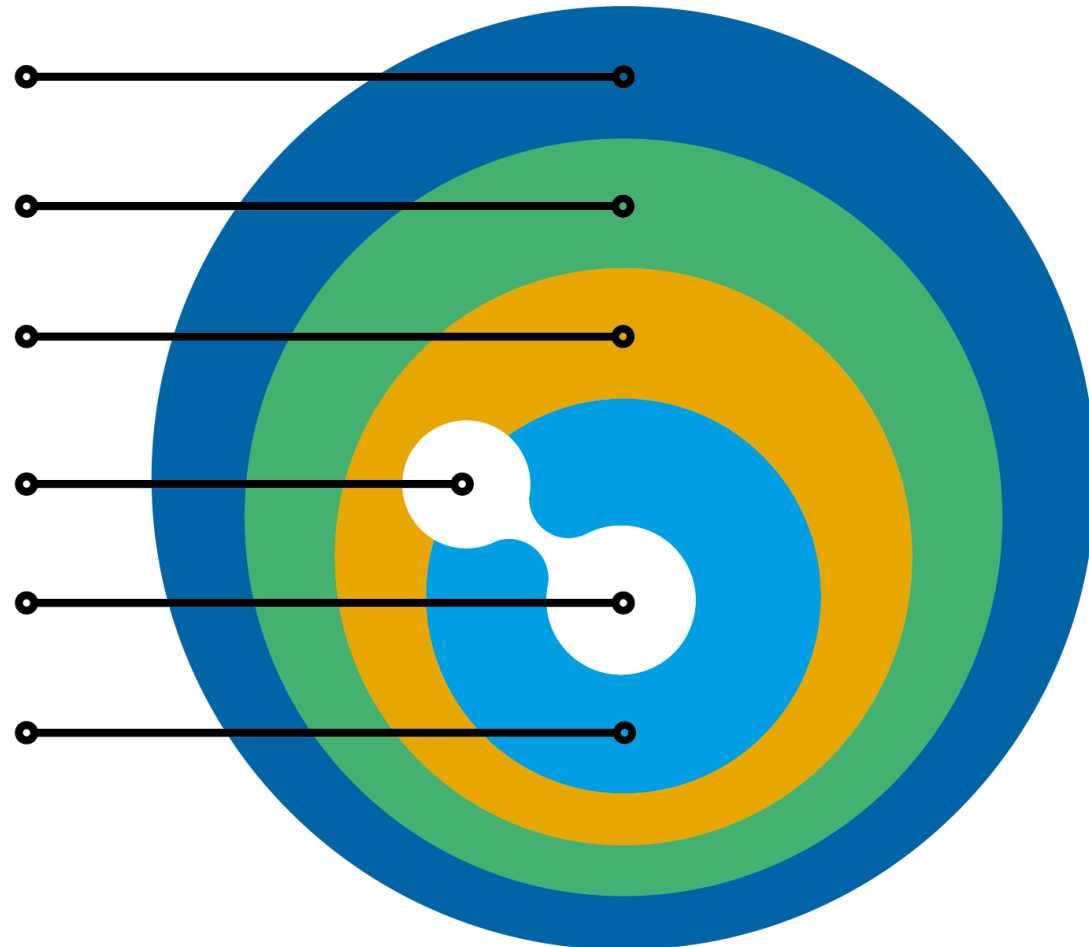
ACOMarket: IT-Service Broker

ACONET Association: 45 Members

Board of ACONET Association =  
ACOnet Steering Committee

ACOnet-Team, ZID, University of Vienna

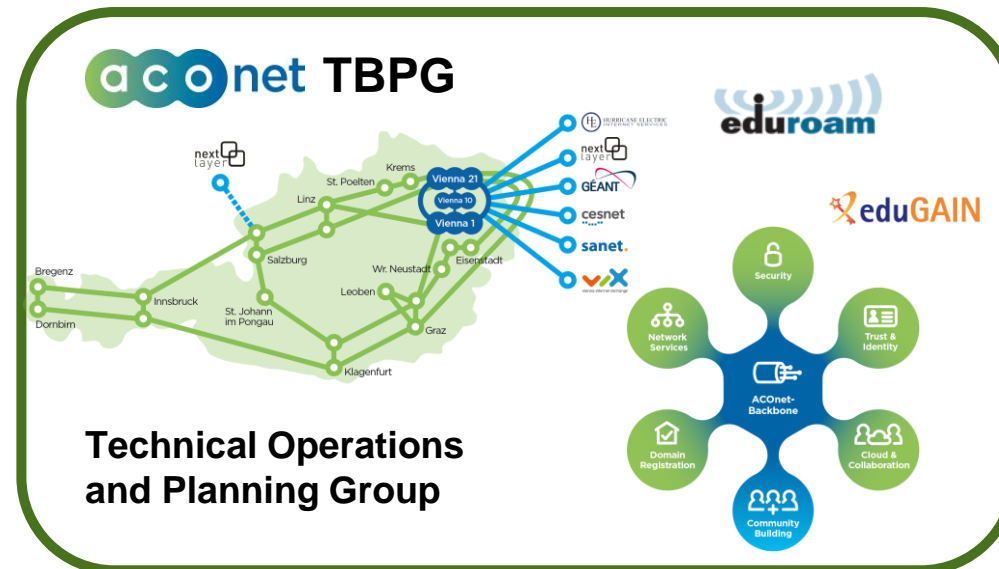
ACOnet Locations: 20



# ACONET Community Programme - Background

- Numerous **working groups**, **user groups**, **interest groups**, etc. exist in the field of IT and digitalization.
- Mostly **self-organized**, defined by common **topics**, common **goals**, common **values** and regular **communication**.

## Examples:



## ... and many more...

ArgeSecur  
ArgeSoft  
ArgeStorage  
ArgeZID  
Bundesmuseen-IT  
FH-IT-Leitungen  
Datenverbund -AHESN  
Phaidra  
CampusOnline UG  
Moodle  
Atlassian  
m:usi .....

# ACONET Community Programme – Vision & Mission

**We all are THE ACONET community**

**consisting of a large number** of working groups, special interest groups, task forces and projects in connection with the network infrastructure and many services based on it

with the aim of **jointly creating optimal conditions** for non-profit organizations in science, research, education, art and culture in Austria

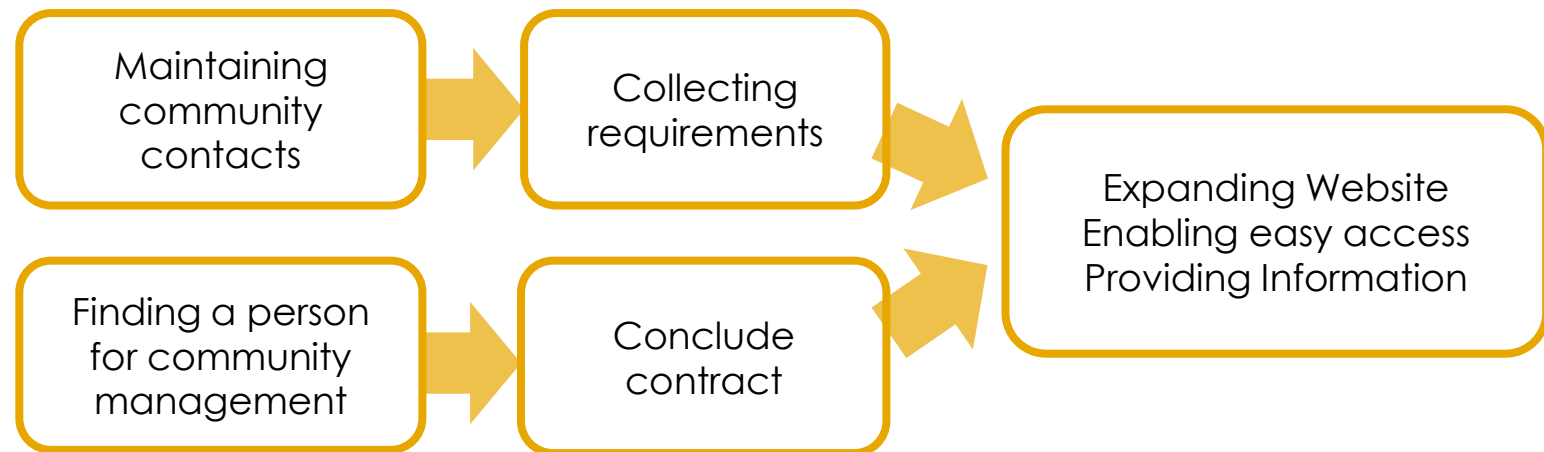
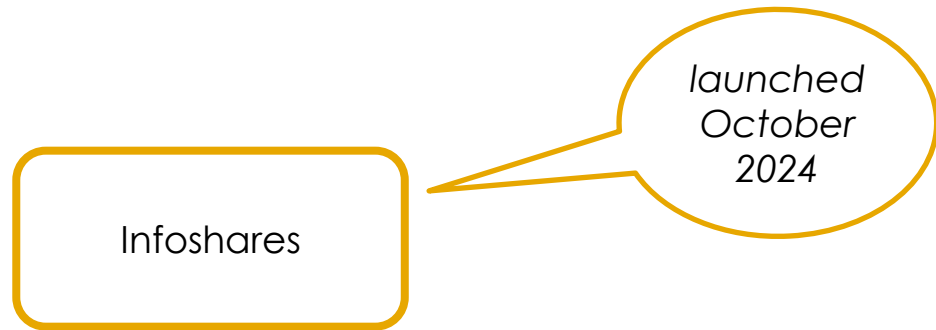
and **promoting international cooperation** and **innovative developments**.

**„Connect people to the right human network“**

# ACONET Community Programme – Goals & Benefits

- **Visualize** existing groups and **enable easy access**
- Support **self-organization**, strengthen **contacts** and recognize **needs**
- Share **knowledge** and **experiences** & **support** each other
- Identify **new and innovative topics** and develop **new services**
- Save resources by **avoiding duplication**
- **International networking**, e.g. participate in GÉANT groups

# ACONET Community Programme – Next Steps



# Thank you!

[www.eosc-austria.at](http://www.eosc-austria.at)

**Petra Karlhuber**

ACONET Verein

✉ [generalsekretariat@aconet.at](mailto:generalsekretariat@aconet.at)

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# Candidates

Name:	Affiliation:	Targeted position:
Helmut Klug	University of Graz	Management Board Member
Dimitri Prandner	JKU	Management Board Member
Barbara Sanchez Solís	TU Wien	1st Chair – Management Board

# Working Groups

## To be continued:

- Researcher Engagement in Austria

## Ending this period:

- Austria Country Report
- Collections
- Technical Infrastructure
- Training

Given that there will be only one Working Group in the upcoming period, the Synergy Team will not be elected this year.

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# EOSC Initiative in the Czech context (EOSC CZ)

Jiří Marek, Head of EOSC CZ Secretariat

(credits to Matej Antol, Ph.D.)

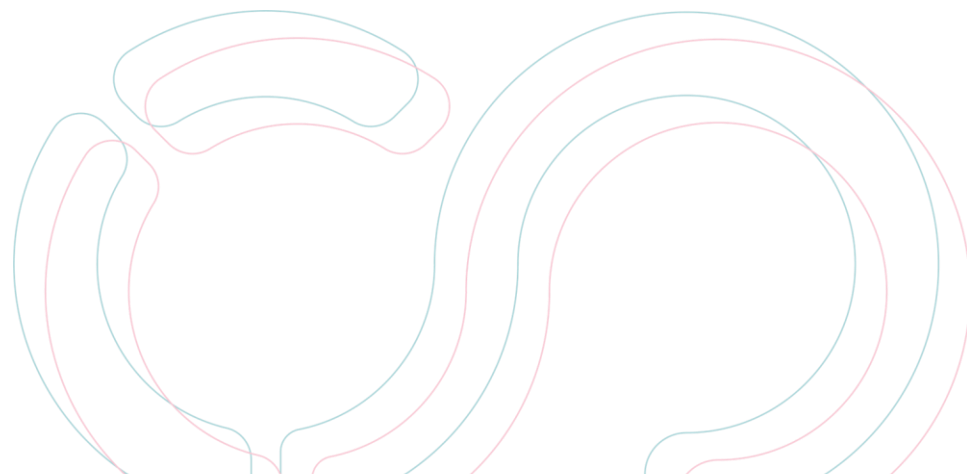
17.12.2024



Spolufinancováno  
Evropskou unií

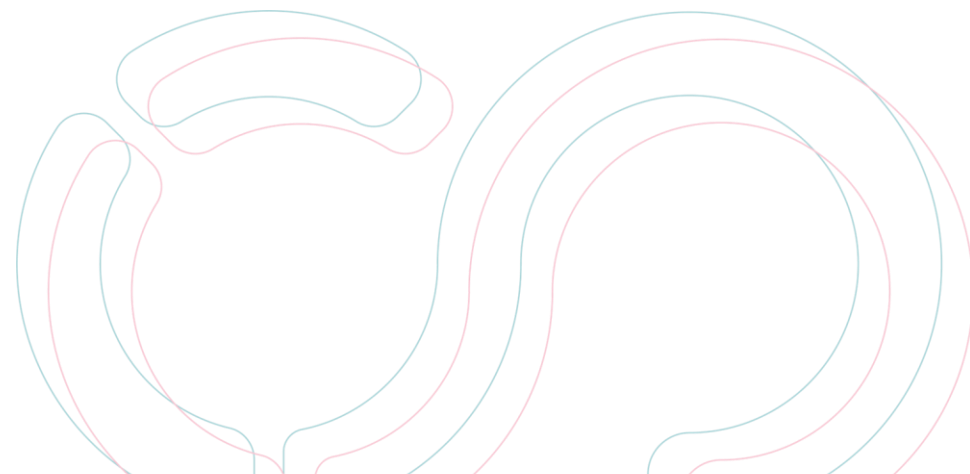
# In this presentation

- EOSC CZ – two years in the making
- Czech National Data Infrastructure
- What's next



# EOSC CZ

## two years in the making







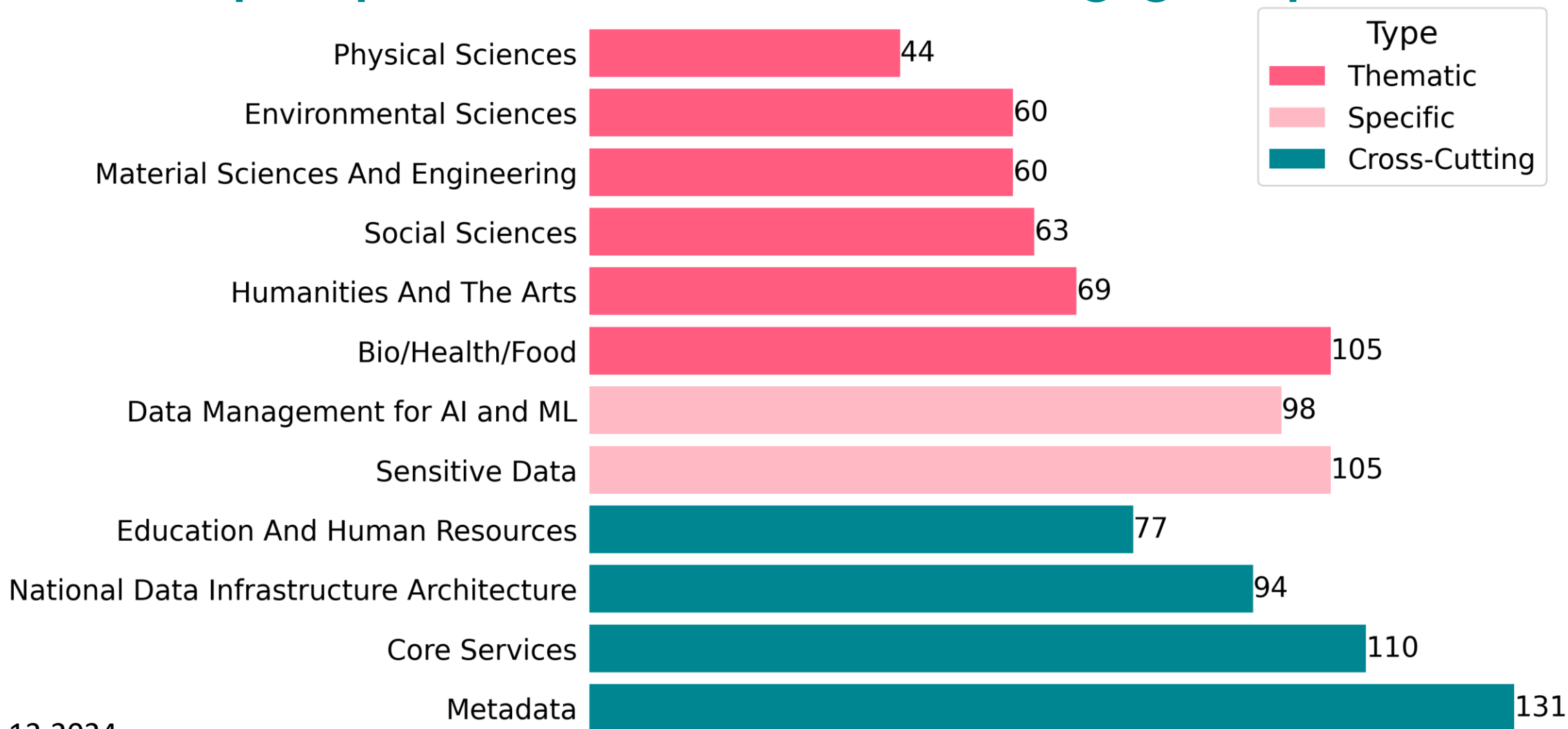
# People of EOSC CZ

Researchers, librarians, IT professionals, coordinators...

... taking action in designing and building EOSC CZ and  
the National Data Infrastructure.



# 450+ people in EOSC CZ working groups

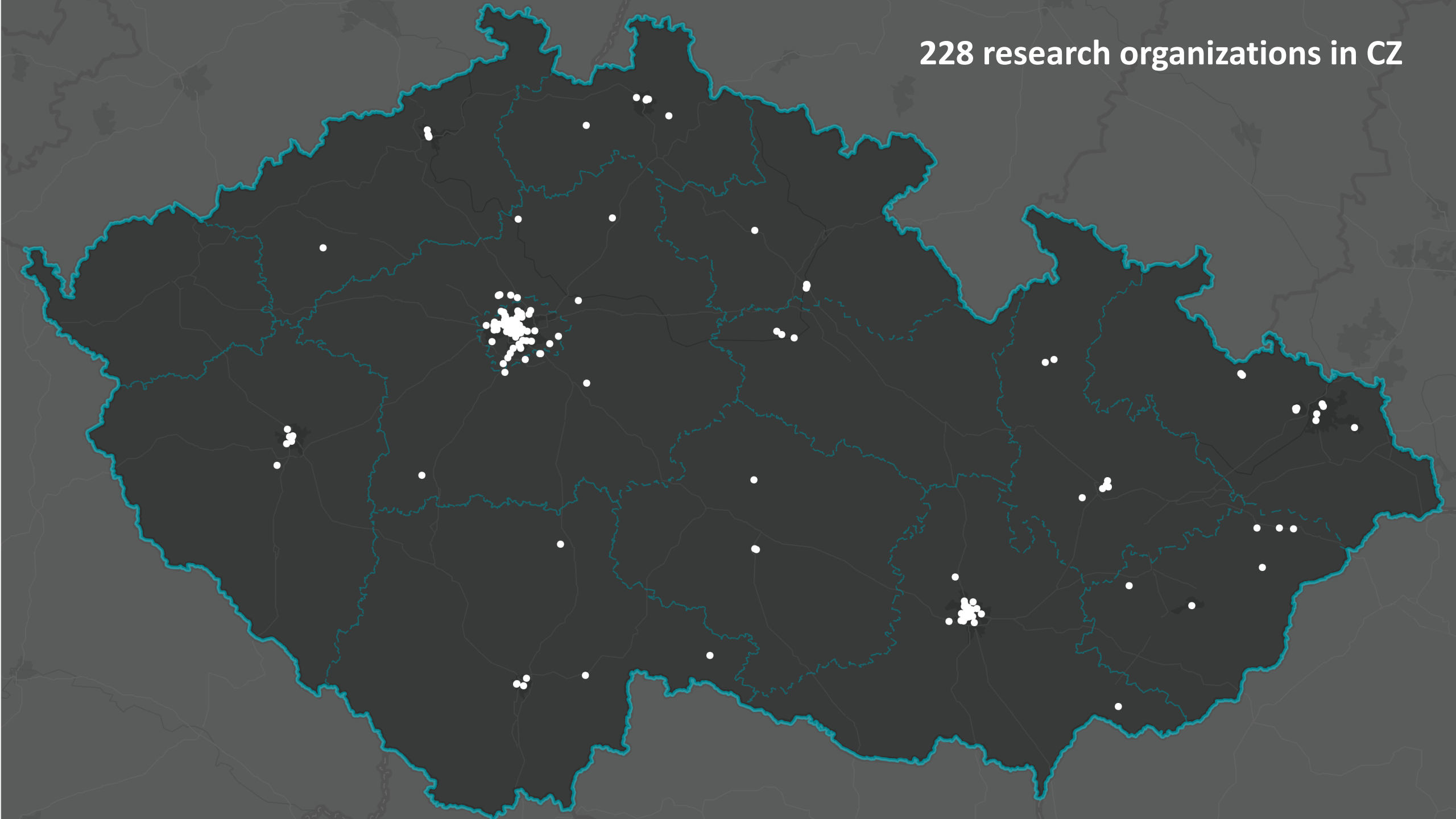


## Conferences, workshops and community meetups

- **21 trainings** and workshops
  - ca **3.000 registrations** from ca 90 research institutions
- **3 Conferences** with hundred+ attendees
  - 150 visitors of this conference present + more than 150 online
- **31 Physical meetings** of communities and working groups
  - 3 roadshow in Prague, Brno and Ostrava
  - 5 EOSC CZ Networking events – bringing EOSC CZ to the universities in České Budějovice, Liberec, Olomouc, planned trips to Zlín and AV ČR
- **+ over 100 online working group meetings**
- **Thousands people continuously in touch**
  - 300+ followers on social networks
  - 300+ EOSC newsletter subscribers
  - 3.000+ views of content on YouTube



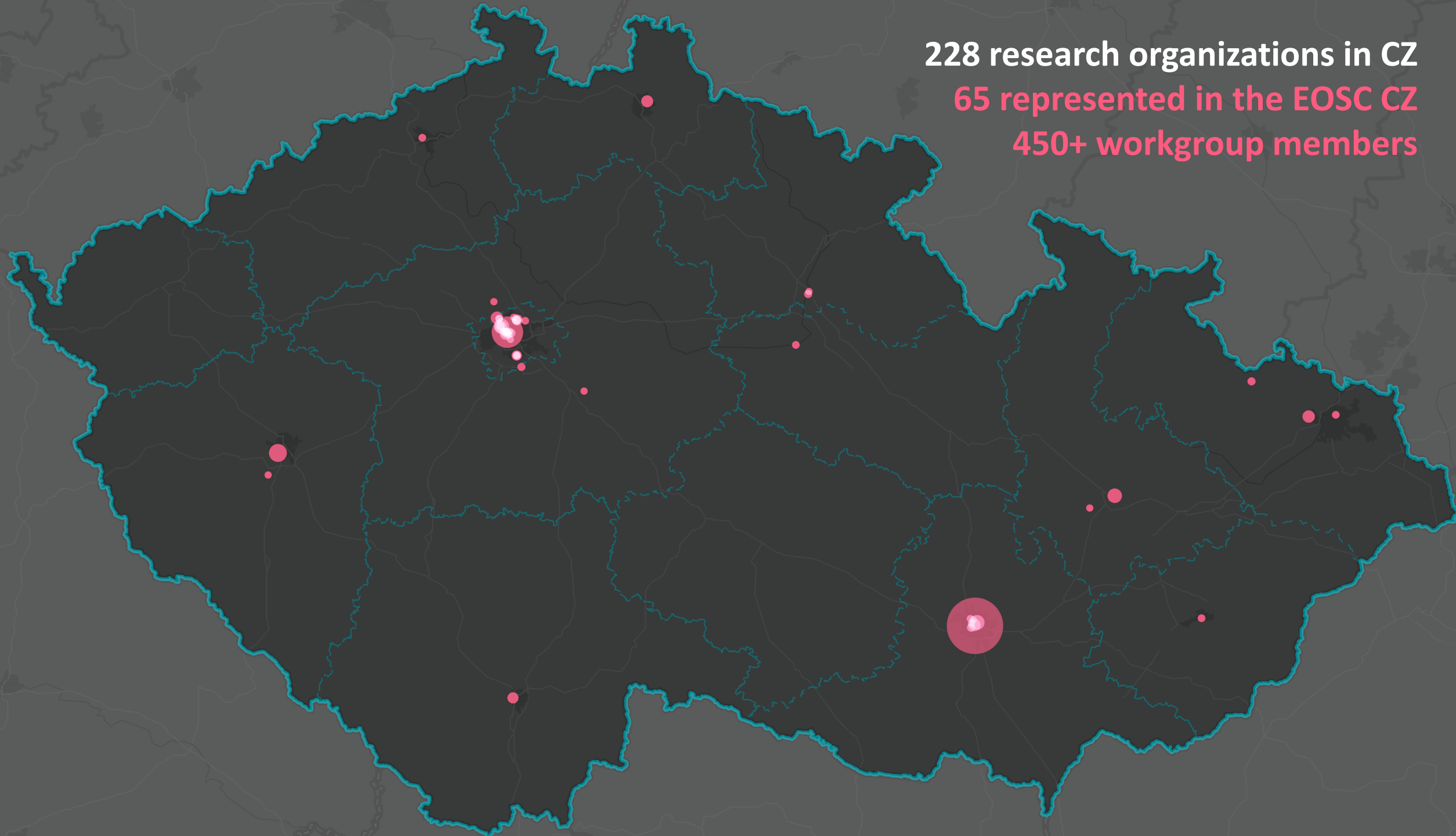
228 research organizations in CZ



**228 research organizations in CZ**

**65 represented in the EOSC CZ**

**450+ workgroup members**





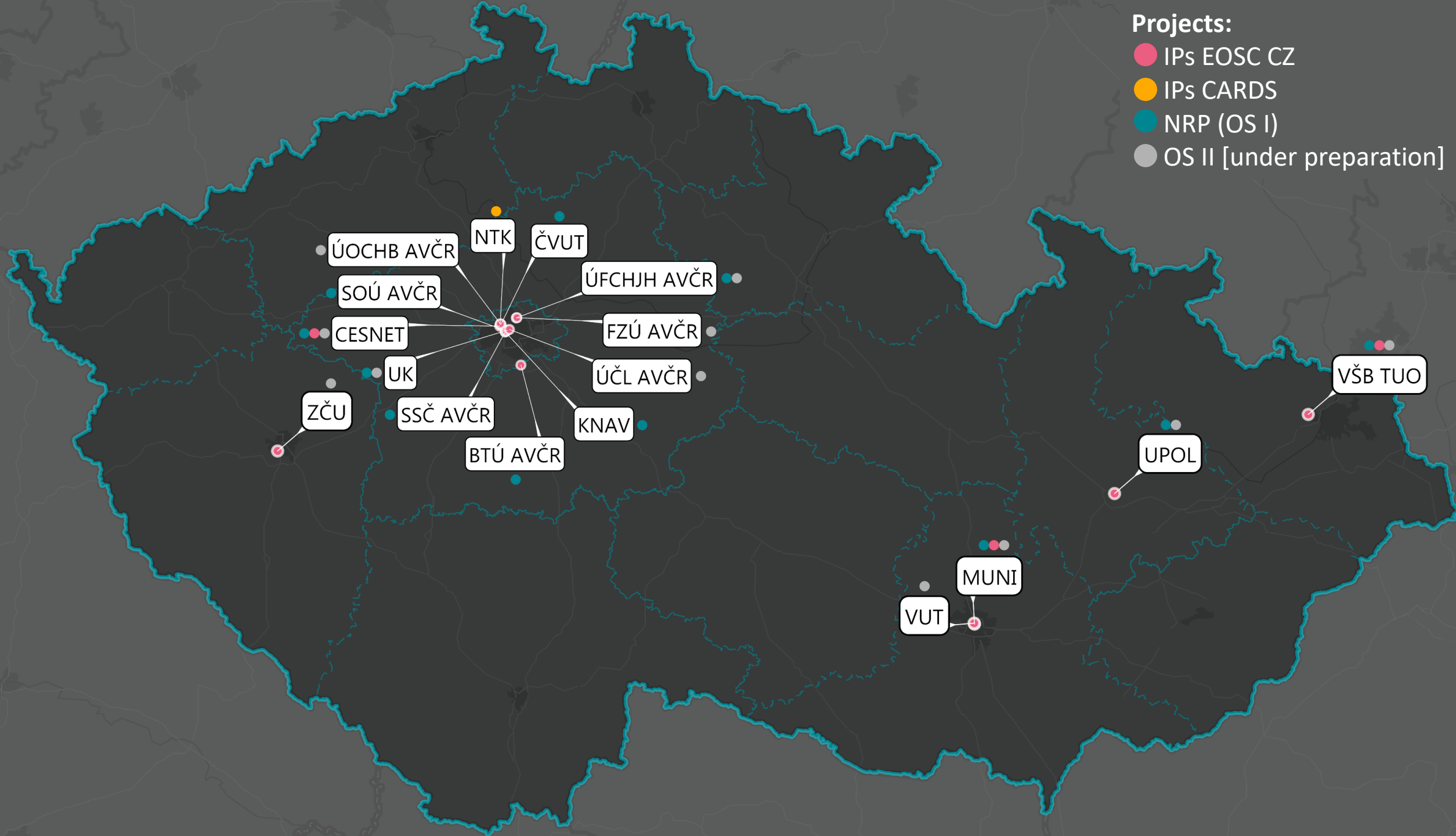
# Projects:

● IPs EOSC CZ

● IPs CARDS

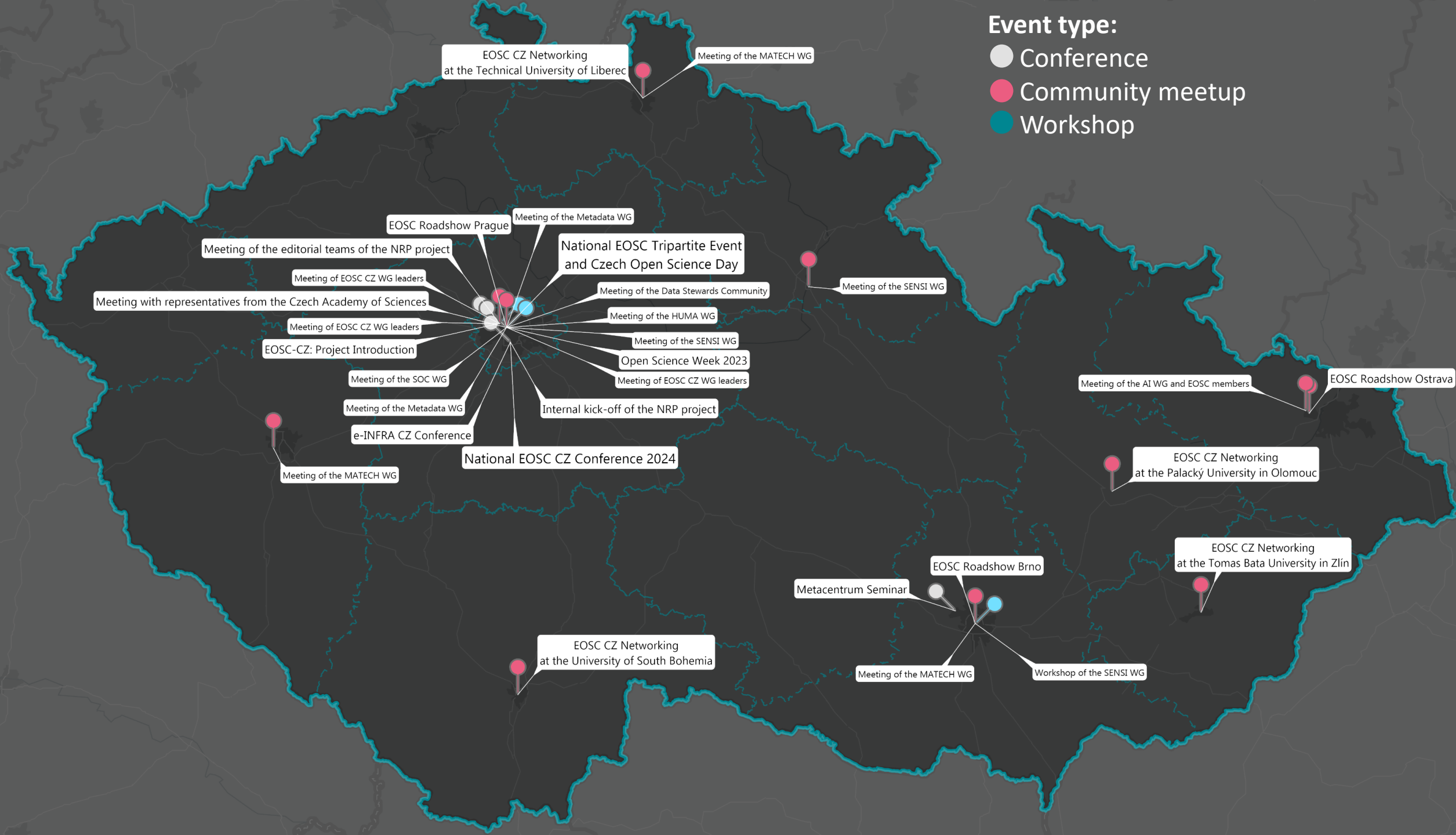
● NRP (OS I)

● OS II [under preparation]



## Event type:

- Conference
- Community meetup
- Workshop



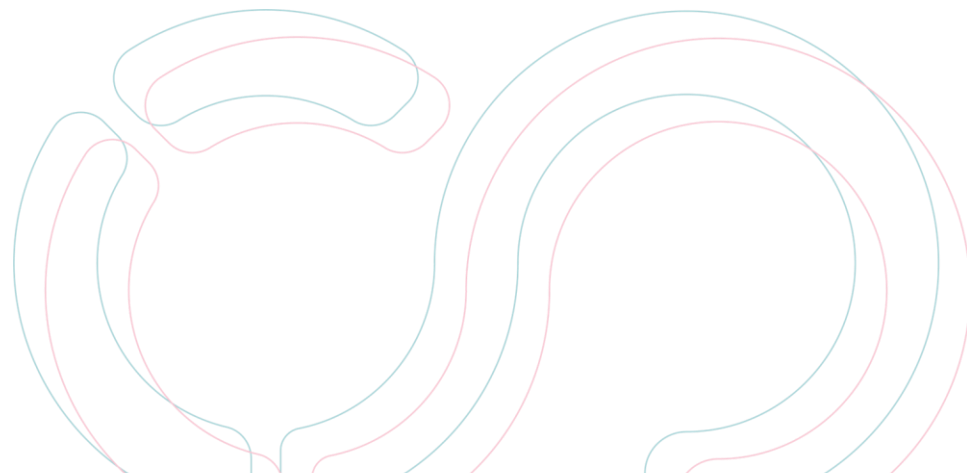
# Shaping the European development

- Notable engagement of Czech professionals
  - 14 Czech members in the **EOSC Association Task Forces**
    - 2 Czech Co-Chairs: Jiří Marek and Petr Holub
  - Members in the **Opportunity Area Expert Groups**: Miroslav Ruda, Marek Cebecauer and others
  - **EOSC Executive Board** (2019 – 2020), **EOSC Steering Board** Vice Co-Chair (since 2023) and **Tripartite group**: Jan Hrušák
- Development of the infrastructure
  - CESNET – subcontractor in LOT 1 and LOT 3 **developing EOSC EU Node**
  - Regular contribution and consultations to the **EOSC Association activities**:  
SRIA and MAR, Federation Handbook, EOSC Nodes survey, EOSC Symposium, etc.
  - Participation in the INFRAEOSC projects (Horizon Europe), **OSCARS, BEYOND, ENTRUST, AARC TREE, CRAFT-OA (EOSC United** – submitted)

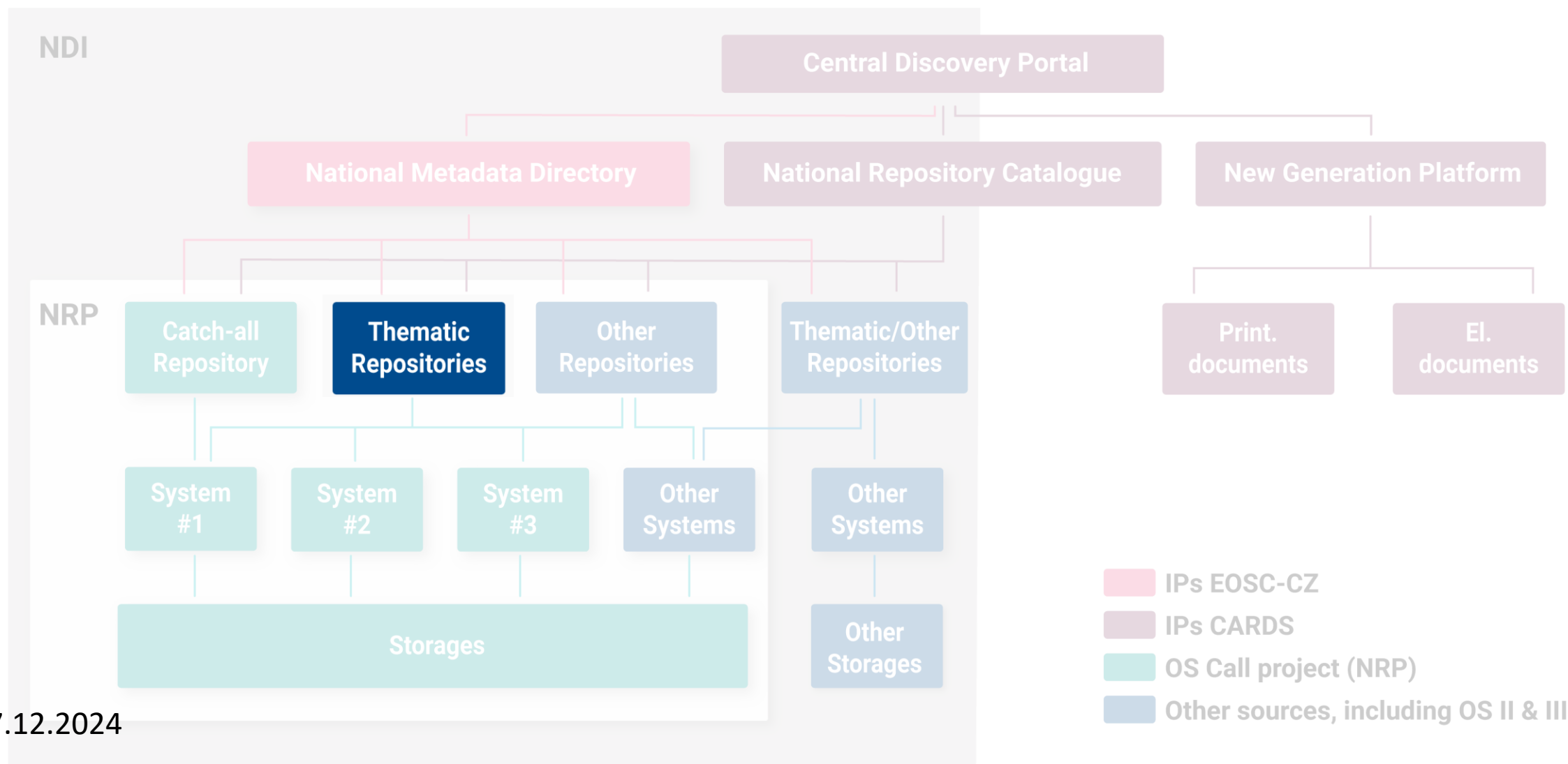


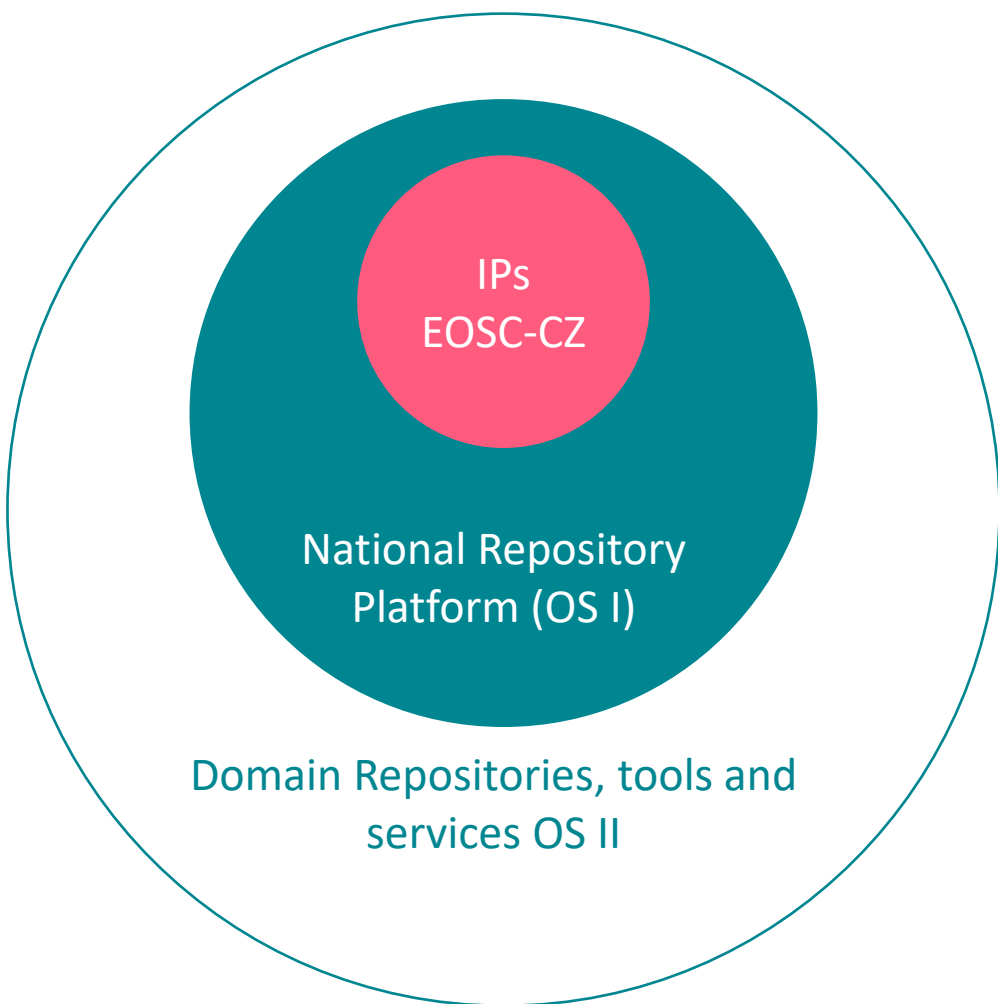


# The Czech National Data Infrastructure



# National Data Infrastructure (NDI)





## IPs EOSC-CZ (since 2023) – Fundamentals for EOSC implementation in CZ

- Organizational (**Secretariat**) – <https://www.eosc.cz/en/secretariat>
- Technical (**National Metadata Directory**) – <https://nma.eosc.cz/>
- Knowledge and skills (**Training Centre**) – <https://www.eosc.cz/en/training-centre>

## National repository Platform (OS I, since 2024) – “technical core”

- **Repository platforms** (dspace, cesnet invenio, asepl arl) (50+ PB user capacity)
- First **exemplary repositories**
- **Core services** (PIDs, DSW, licenses, ...)
- **Compliance** and UX (cybersecurity, ServiceDesk, ...)
- **Training** – technical side of things

## OS II (since 2025) – “domain specifics”

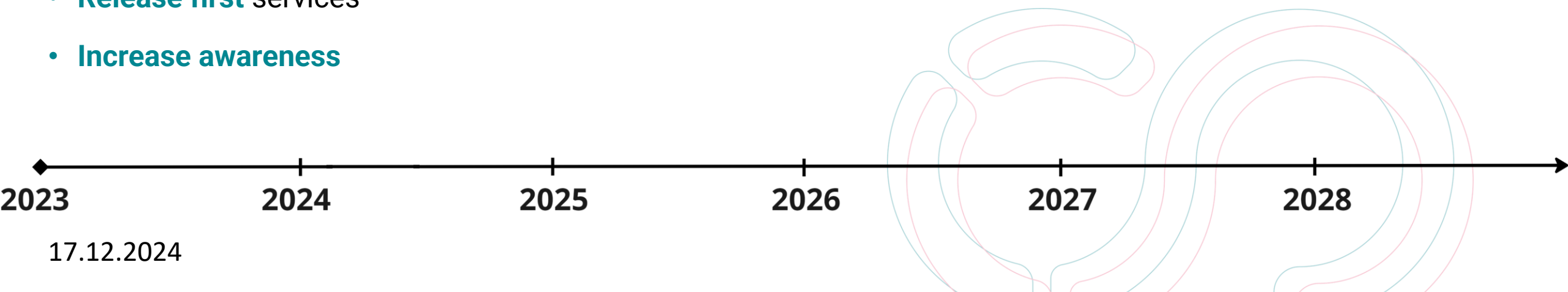
- Under preparation, content not clear yet
- **Based on expertise of the 8 thematic / discipline workgroups**
  - Bio/Health/Food, Matech, AI & ML, Social Sciences, Physics, Humanities & Arts, Enviro, Sensitive Data
- see <https://www.eosc.cz/en/working-groups>

## OS III (since 2026?)

# Nearing the end of the first phase

## Phase 1

- **Engage Czech researchers** and professionals
- **Organize** the work groups and communities
- **Kick-off 3 major projects**
- **Design** the core infrastructure and services
- **Release first** services
- **Increase awareness**



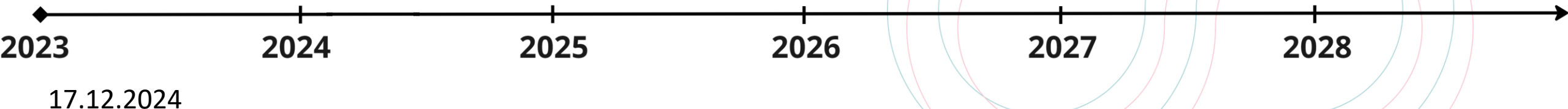
# Beginning the second phase

## Phase 1

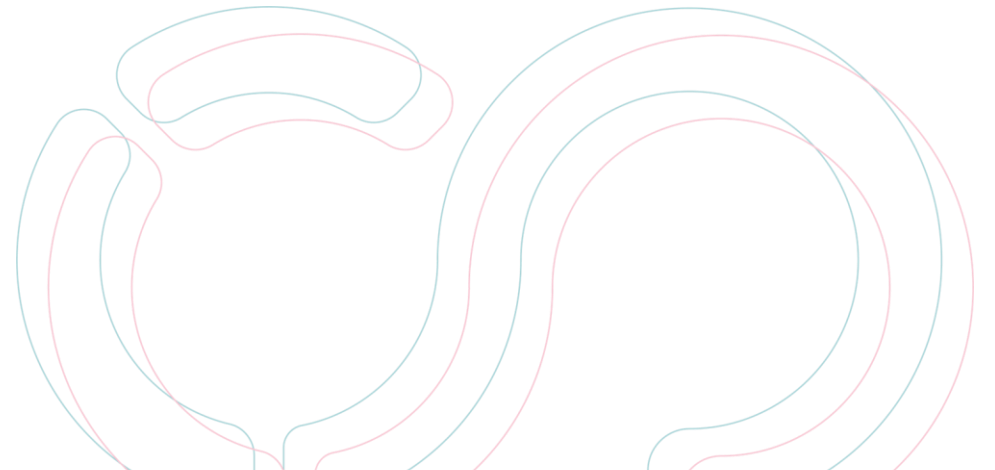
- Engage Czech researchers and professionals
- Organize the work groups and communities
- Kick-off 3 major projects
- Design the core infrastructure and services
- Release first services
- Increase awareness

## Phase 2

- Deploy the infrastructure
- Deploy all the core services
- Integrate and deploy first repositories
- Support the uptake of data management skills and know-how
- Integrate the national and international ecosystem
- Propose the sustainability model



# What's next





# In 2025...

## Infrastructure

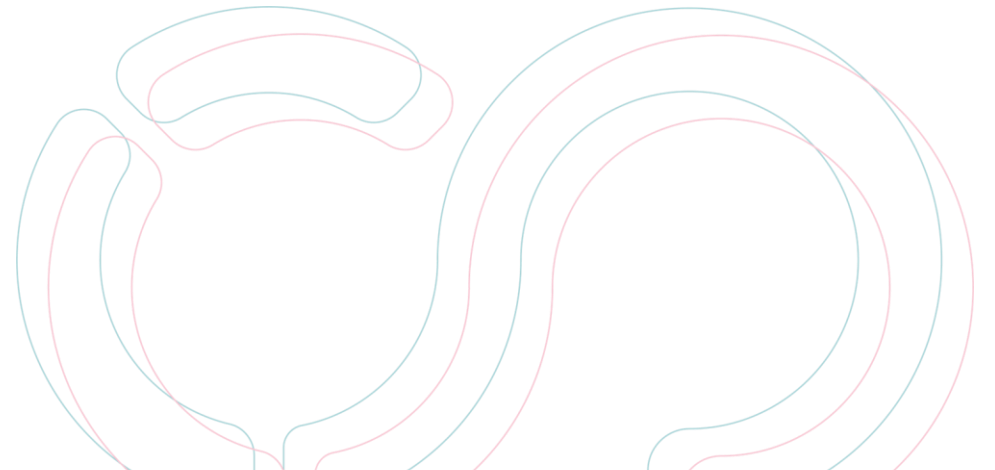
- Installation of **first hardware for repositories**
- Emergence of **first and pilot repositories**
- National Repository Catalogue

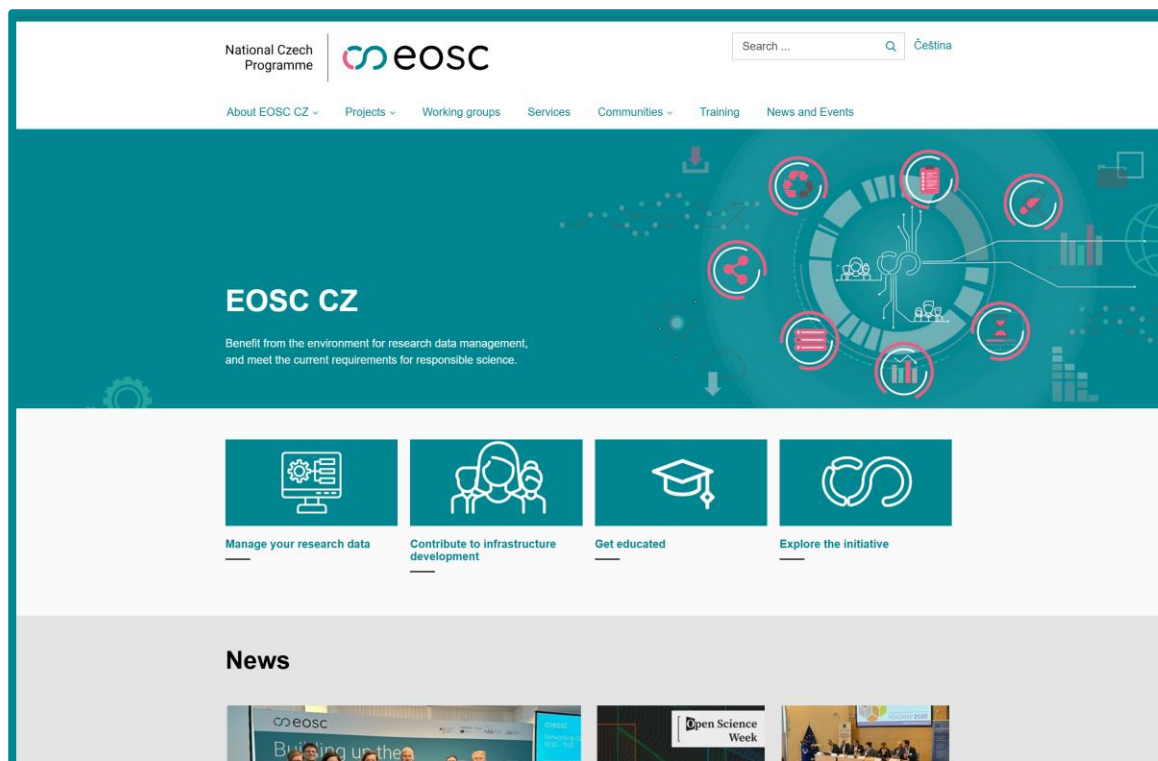
## Services

- First versions of all major core services, including
  - Repository platforms
  - FAIR Implementation Profile Wizard
  - Data Stewardship Wizard
  - License management
  - AAI for repositories
  - ... and more

## Events

- National Tripartite Event
- Data Steward Summer School
- ... trainings, workshops, seminars, conferences, ...



visit <https://www.eosc.cz/en>

17.12.2024

EOSC CZ: Towards the development of Czech  
national ecosystem for FAIR research dataMatej Antol , Jiří Marek , Michaela Capandová , Jaroslav Juráček , and Luděk Matyska 

**Abstract**—This short paper presents a compact overview of the Czech approach to implementing the European Open Science Cloud and plans for developing a Czech national infrastructure for FAIR research data. Its purpose is to provide an all-encompassing summary of the near future of research data management in Czechia. As such, we deliberately attempt to explain complicated concepts in minimum words, sacrificing the precision of expression for compactness.

**Index Terms**—EOSC, EOSC CZ, FAIR data, National Data Infrastructure, National Repository Platform, Open Science

## I. INTRODUCTION

The importance of data in research is continuously rising, while approaches to store, manage and share these data seem to fall behind. The value of the data is reduced by their considerable heterogeneity and lack of structure, which leads to low reproducibility and hinders scientific progress. Open Science (OS) [1] seeks to address some of these current issues, focusing on data availability and sharing, urging for more collaboration and emphasising research integrity. European Open Science Cloud (EOSC) [3], [4] is an international initiative that builds on the Open Science principles. EOSC seeks to create a common European research environment [5] to store, share and re-use research data and other digital objects without barriers. We call such data and objects FAIR [2] (Findable, Accessible, Interoperable, Reusable).

## II. EOSC CZ – INFRASTRUCTURE AND SERVICES FOR FAIR RESEARCH DATA

The establishment of fundamental principles for the Czech national EOSC implementation took place in 2021, resulting in the document called *Architecture of EOSC implementation in the Czech Republic* [6]. The document represents the official start of the EOSC CZ initiative [7]. The primary tangible outcome of this initiative will be a National Repository Platform (NRP) – a core component of the National Data Infrastructure (NDI). NRP will be a federated ecosystem of distinct technological layers (see Fig. 1) and associated services (see below).

The data infrastructure will complement the existing Czech national e-infrastructure e-INFRA CZ [11] with all its services. NDI will be fully integrated at the European level [12]. NRP will interconnect with the already running parts of NDI: data repositories and services held at universities, Czech Academy

of Sciences and Research Infrastructures. Examples are environments such as LINDAT/CLARIAH-CZ [13] for natural language processing, Czech-BioImaging [14] for biological and medical imaging or EIRENE RI [15] for human exposome. Next to the repositories themselves, the initiative plans to deploy and integrate several FAIR data-related services designed for NDI users. Notably:

- Central Discovery Portal (CDP) integrated into the New Generation Platform (PNG) will ensure the searchability and availability of all types of resources (electronic, digitized and printed) and research results.
- National Metadata Directory to search in NDI metadata.
- Single Authentication and Authorization Infrastructure (AAI) solution Perun [16] to guarantee data accessibility.
- Support for data management planning via Data Stewardship Wizard [17].
- Support for Persistent Identifiers (PIDs) [18].
- Support for data FAIRification.
- Data mgmt. tools such as OneData [19] or iRODS [20].
- Training [21] and university courses on data management.

## III. ACTIVE COMMUNITIES AND HOW TO PARTICIPATE

Researchers' engagement is vital for the EOSC CZ's success. Since 2021, as a reaction to the EOSC CZ Architecture document, 12 EOSC CZ working groups [22] have been established through a self-organizing community effort. These groups will be operational during the entire EOSC CZ initiative, and registration is continuously open to new potential members. A list of their members is publicly available. Currently, the initiative is in its initial implementation phase, and the active participation of scientists in the working groups

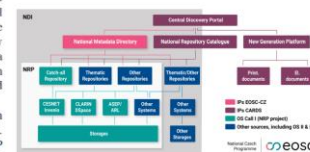


Fig. 1. NDI and NRP blueprint with five abstraction layers. Bottom-up: hardware infrastructure dedicated across Czechia; three initial repository systems – CESNET Invenio [8], CLARIN-Dspace [9] and ASEP/ARL [10]; specific domain and other repositories, metadata directory and on top, Central Discovery Portal.

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Manuscript published February 20, 2024

is the main guarantor for the NDI ecosystem to encompass and support all relevant research data management needs of research communities.

The initiative is also closely connected with the National Open Science coordination team within the National Library of Technology. On top of that, collaboration is being established with the already existing national Open Science communities:

- Open Science working groups of the Association of Libraries of Czech Universities,
- national Data Steward Community and
- members of the institutional Open Science centres within Czech academic institutions.

## IV. HOW TO BENEFIT FROM THE EOSC CZ OUTCOMES

The NDI's ecosystem of services will be offered to the whole research community regardless of their active participation in the EOSC CZ initiative. The EOSC CZ Secretariat [23] and Training Centre [21] are already operational, providing consultancy, seminars and workshops for the Czech research ecosystem. The National Metadata Directory will be deployed in 2024, followed by the NRP with a portion of core services in 2025. By this time, the first domain and other repositories should also be emerging. This first phase will be completed in 2026, with an entire NRP and its services available. The initiative will concurrently foster the development of data management and other related skills for all Czech academia members. It will also encourage the systemic formation of data steward and curator roles across the academic ecosystem.

With this infrastructure, any reasonably interested Czech scientist should have sufficient information, know-how, skills, institutional support, and services to store, share, and reuse research data efficiently. These ambitions summarize the main objective of the EOSC CZ initiative.

## ACKNOWLEDGMENTS

The EOSC CZ initiative has active collaborators who significantly exceed the authors of this paper. Out of these, we would namely like to acknowledge the contributions of Radka Římanová, Klára Slanáová, Petra Čermohávková, Martin Svo-boda, Miroslav Bartošek, David Antoš and Michal Ruzicka.

**APPENDIX: FINANCIAL SUPPORT FOR EOSC IN CZECHIA**  
Czech Ministry of Education, Youth and Sports (MEYS) supports the EOSC CZ initiative [24] via two systemic projects and three open science calls:

- Individual Systemic Project (IPs) EOSC-CZ, coordinated by Masaryk University with two additional partners, supported with 18 mil. EUR to provide a fundamental organizational, technical, and training environment.
- IPs CARDS, coordinated by National Library of Technology, supported with 56 mil. EUR, to provide support for PIDs, research data description, and deliver the PNG.
- OS Call I, with an allocation of 50 mils. EUR, to create the NRP, its core services and related training.
- OS Call II, with an allocation of 36 mil. EUR to support domain-specific data management, repositories and related services over the NRP.
- OS Call III, scope of which is currently under discussion.

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- [2] Wilkinson, M.D. et al. The FAIR Guiding Principles for scientific data management and stewardship. *Scientific data*, 3(1), pp.1-9. (2016)
- [3] <https://eosc-portal.eu/>
- [4] <https://eosc.eu/>
- [5] [https://eosc.eu/sites/default/files/2021-01/Implementace\\_EOSC\\_v\\_CZ.pdf](https://eosc.eu/sites/default/files/2021-01/Implementace_EOSC_v_CZ.pdf)
- [6] <https://www.eosc.cz/en>
- [7] <https://github.com/CESNET>
- [8] <https://github.com/CLARIN-Dspace>
- [9] <https://asep-portal.lib.cas.cz/basic-information/dataset-repository/>
- [10] <https://www.e-infra.cz/en>
- [11] <https://eosc.eu/participate/collaboration/czech-republic/>
- [12] <https://lindat.cz/>
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- [24] <https://www.datazena.cz/en/statisticky-a-analyzy/seznam-operaci-tjrepceni>



Matej Antol is the principal project manager of the IPs EOSC-CZ. He is also the integration manager of the Czech e-infrastructure e-INFRA CZ and an executive director of one of its three partners, the CERIT-SC infrastructure. He has a long background in IT and research projects. His research activities focus on managing and analysing complex, high-dimensional data.



Jiří Marek is the General Secretary of the EOSC CZ initiative and head of the EOSC CZ Secretariat. He holds the role of the Open Science manager at Masaryk University and serves as a head of the CZARMA Open Science Task Force. He is also involved with activities regarding digitization of the public sector via open technologies (Open Cities, etc.)



Michaela Capandová is the secretary to the EOSC CZ Working Groups Metadata and Materials Sciences and Engineering. Her research in the biomedical field is focused on the development of cellular elements and biomaterials for lung tissue engineering. She loves electrospraying and scanning electron microscopy.



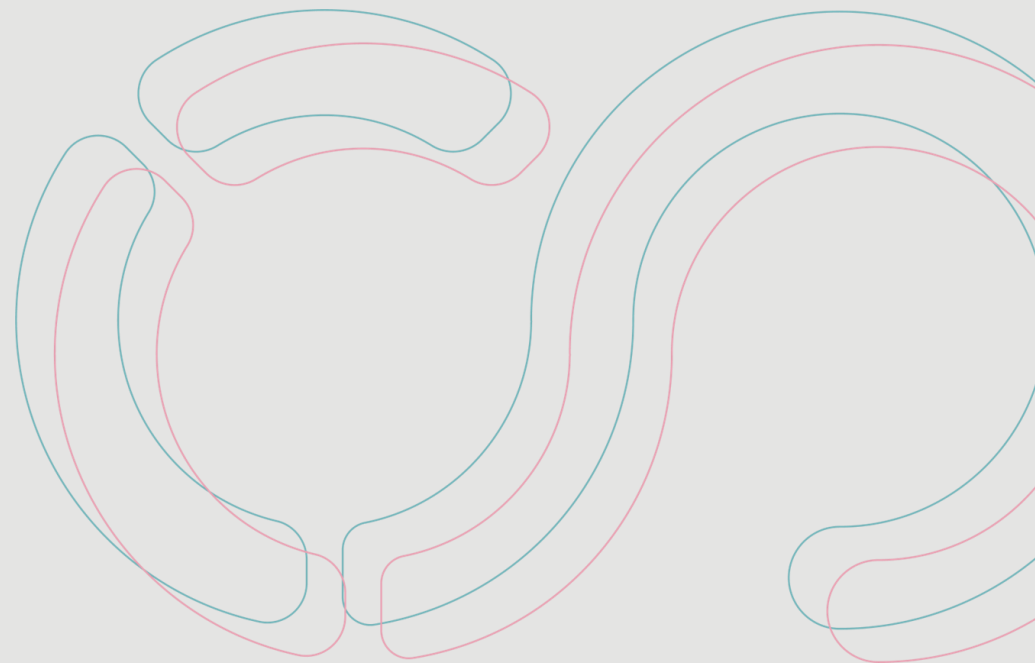
Jaroslav Juráček is the secretary to the EOSC CZ Working Group BioHealth/Food. Beyond that, he takes part in building the European Genomic Data Infrastructure and related activities at the national level. His focus is set on advancing open science initiatives and access to and utilization of genomic data for research and innovation.



Luděk Matyska is a full professor at the Faculty of Informatics, Masaryk University, with a long track in developing national and European research infrastructures. He is the director of the CERIT-SC, one of three members of the e-INFRA CZ steering board, the principal project manager of the NRP project, and chairman of the IP EOSC-CZ steering committee.

read <https://arxiv.org/pdf/2402.13343>

# Thank you for your attention



17.12.2024



Spolufinancováno  
Evropskou unií

# WELCOME

## EOSC Support Office Austria 4th General Assembly

TUESDAY, DECEMBER 17TH, 2024  
UNIVERSITY OF VIENNA  
1 PM TO 5 PM







# EOSC Engagement: the EU and Nordic perspective

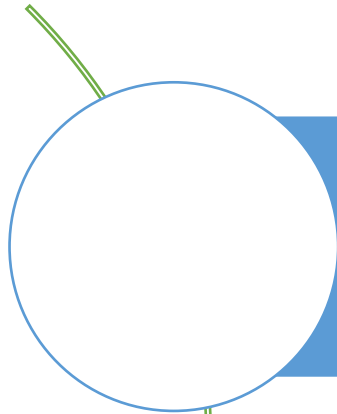
Sara Garavelli

EOSC Association Director

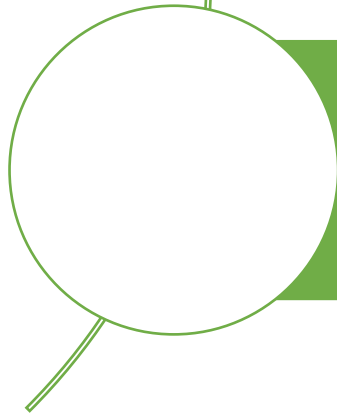
Strategic European Engagement and Coordination Development Manager  
at CSC – IT Center for Science

17 December 2024, 4th ESOC SOA General Assembly





Design the future of EOSC post-2027



Building-up the EOSC Federation



## Design the future of EOSC post-2027

- **Engagement of policy makers and funders, incl. representatives of Member States and Associated Countries**
  - **Opinion paper** of the EOSC Steering Board (March 2025)
  - A **unified policy narrative**, agreed upon by the EOSC Tripartite Governance, to position EOSC in key areas such as security, AI, and competitiveness and assist country representatives in integrating EOSC into national agendas and making the case within their constituencies (March 2025)



eosc

Why EOSC is pivotal for European competitiveness

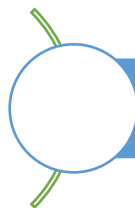
Reflections of the EOSC Association on the Letta report 'Much more than a market'

The report by Enrico Letta on the Future of the Internal Market was published in April 2024 and presented to the European Council<sup>1</sup>. Starting from the analysis of how Europe has changed fundamentally since the Single Market was launched, the report provides policy recommendations for the future of the Single Market, remarking on its crucial importance for strengthening European competitiveness.

One of the main recommendations from the report is to create "a fifth freedom (in addition to the free movement of people, goods, services and capital) dedicated to research, innovation, knowledge and education" that can support policy and decision makers with the evidence-based information necessary to deal with complex new scenarios. "Whether it is about shaping public policies, responding to disasters, or enhancing research, data plays a fundamental role in our understanding of complex social, environmental, and economic issues. Those who can freely access new research, increasingly accurate data, and more efficient technologies can innovate more quickly, improve their processes, and maintain competitiveness in the global market. Eliminating barriers to data access is a powerful catalyst for innovation, improved public services, and economic growth. It advances groundbreaking scientific research and arms businesses with tools to compete globally."

[https://eosc.eu/wp-content/uploads/2024/11/20241104\\_EOSC-A-reflection-paper-on-Letta-report\\_final.pdf](https://eosc.eu/wp-content/uploads/2024/11/20241104_EOSC-A-reflection-paper-on-Letta-report_final.pdf)

# EOSC priorities for 2025



## Building-up the EOSC Federation

eosc

- A process has been defined and organised by the EOSC Tripartite Governance to select a first batch of nodes that are expected to be in **production by the end of 2025 (target c.a. 12 nodes)**.



# EOSC Federation engagement

## 1<sup>st</sup> tier Respondents

- **121 respondents** to the “Questionnaire for parties interested in the build-up phase of the EOSC Federation”, in particular those indicating interest in becoming EOSC Nodes (52 organisations)

## 2<sup>nd</sup> tier Interested organisations

- **Interested organisations** that did not fill-in the questionnaire
- **EOSC-A membership**, in particular Mandated Organisations

## 3<sup>rd</sup> tier Broader community

The **broader EOSC community** such as:

- EOSC-A Newsletter subscribers
- EOSC-A Task Forces members
- INFRAEOSC project participants

# 1st tier respondents



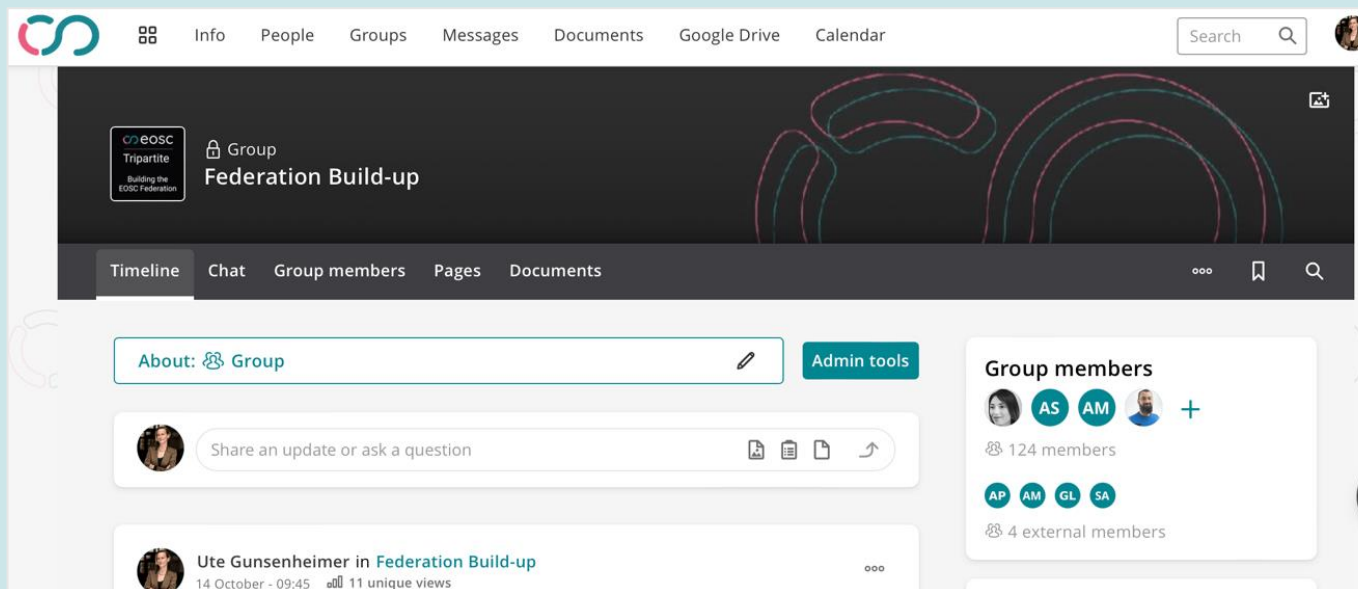
1st tier  
Respondents

Webinar on 28 November 2024 at 14:00 CET




- Socialisation of dialogue process with 29 Potential Candidate Nodes
- Presentation of rationale for decision making
- Presentation of briefing material for Dialogue Process
- Q & A

Webinars when further milestones are reached

- Selection of Candidate Nodes
- Dedicated “production” milestones
- Match-making with Candidate Nodes



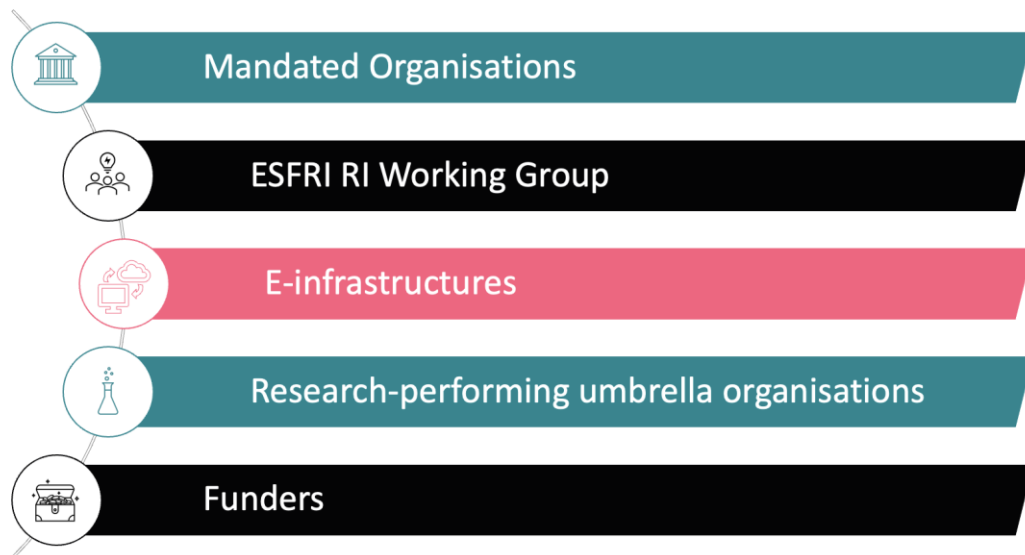
Regular updates on Dialogue Phase

-  Sharing of briefing material for Potential Candidate Nodes
-  Communication of results of Dialogue Phase
-  Promotion of DG CNECT “EOSC Node Builder Kit”

# 2nd tier respondents



2<sup>nd</sup> tier  
Interested organisations



Annika Glauner in [Mandated Organisations](#)

1 October - 12:31 20 unique views

...

## (inter)national Node Exchange Group / invitation

Dear all,

Thank you for your interest in a **European national EOSC Node Exchange Group**.

To define a common denominator for such a forum, we propose an **initial 60-minute online meeting on Thursday, 31 October 2024 at noon (12 PM)**.

In advance, we would send a short Survey Monkey to interested parties to clarify which countries, which organisations are already at what stage regarding a national node. Do you think it is important for government agencies to be involved? If so, should they be permanently present in this forum? Etc.

Please let us know who would like to be involved so that we can create...

Read more ▾



1



3

Expression of  
Interest  
campaign for 2<sup>nd</sup>  
wave





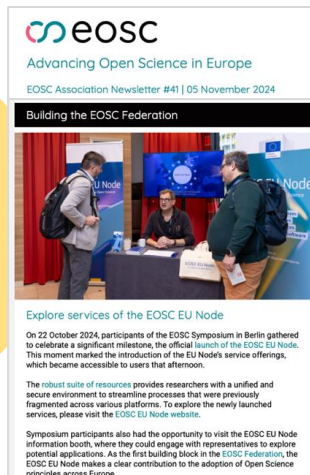
3rd tier  
Broader community

**EOSC  
Symposium**



**EOSC Symposium 2025**  
3-5 November 2025, Brussels

**EOSC-A  
newsletter &  
EOSC  
Federation  
website**



**National  
Tripartite  
events**



**EOSC-A Task  
Forces &  
Opportunity  
areas**

**Winter School**



**Collaborations  
(CoARA, DG  
Sante, etc)**





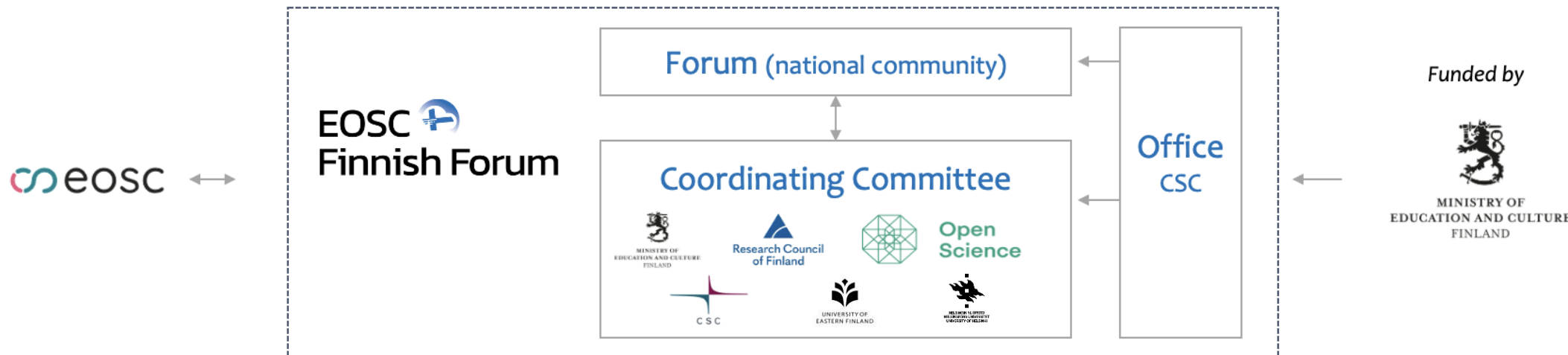
# EOSC in Finland and in the Nordics



# EOSC in Finland

- The **EOSC Finnish Forum** as a **fora for national reflections and engagement**
  - To **discuss & exchange** information on the latest EOSC developments and assess implications on other national initiatives
  - To **represent the collective interests of Finland into EOSC** by formulating a shared approach/message to be communicated to the EOSC Governance
  - To discuss **potential future EOSC-related collaborations & opportunities** at national level and **strengthen the collaboration** between Finnish RDI actors

*Set up in 2021*





# EOSC in Finland

- Several communication and engagement channels established
- Registry of Finnish universities and research centers
- 4-5 webinars per year & promotion at national events

Call for travel grants for EOSC FF members to attend the [23rd RDA Plenary](#) 12-14 November in San José, Costa Rica



January 28, 2025

Tuesday

12.00 - 13.00



## Webinar: EOSC main achievements in 2024 and plans for 2025

Join the EOSC Finnish Forum webinar to get a comprehensive overview of what is going on around the European Open Science Cloud (EOSC). We will take a look back summarising the main achievements from...



Coming up!

## Membership

- Free of charge
- Individual experts (no organisational membership)
- Signature of the [Declaration for Open Science and Research 2020-2025](#) either by the individual or his/her home organisation



Open Science

[www.avointiede.fi](http://www.avointiede.fi)

Coordination > International Collaboration > EOSC



WHAT IS OPEN SCIENCE?

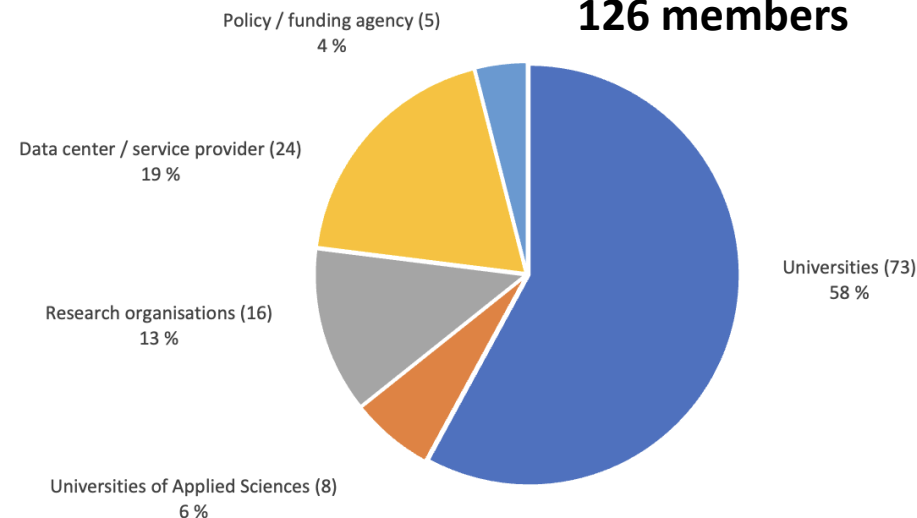
OPEN SCIENCE EXPERT PANELS

POLICIES & MATERIALS

COORDINATION

[Home](#) » EOSC

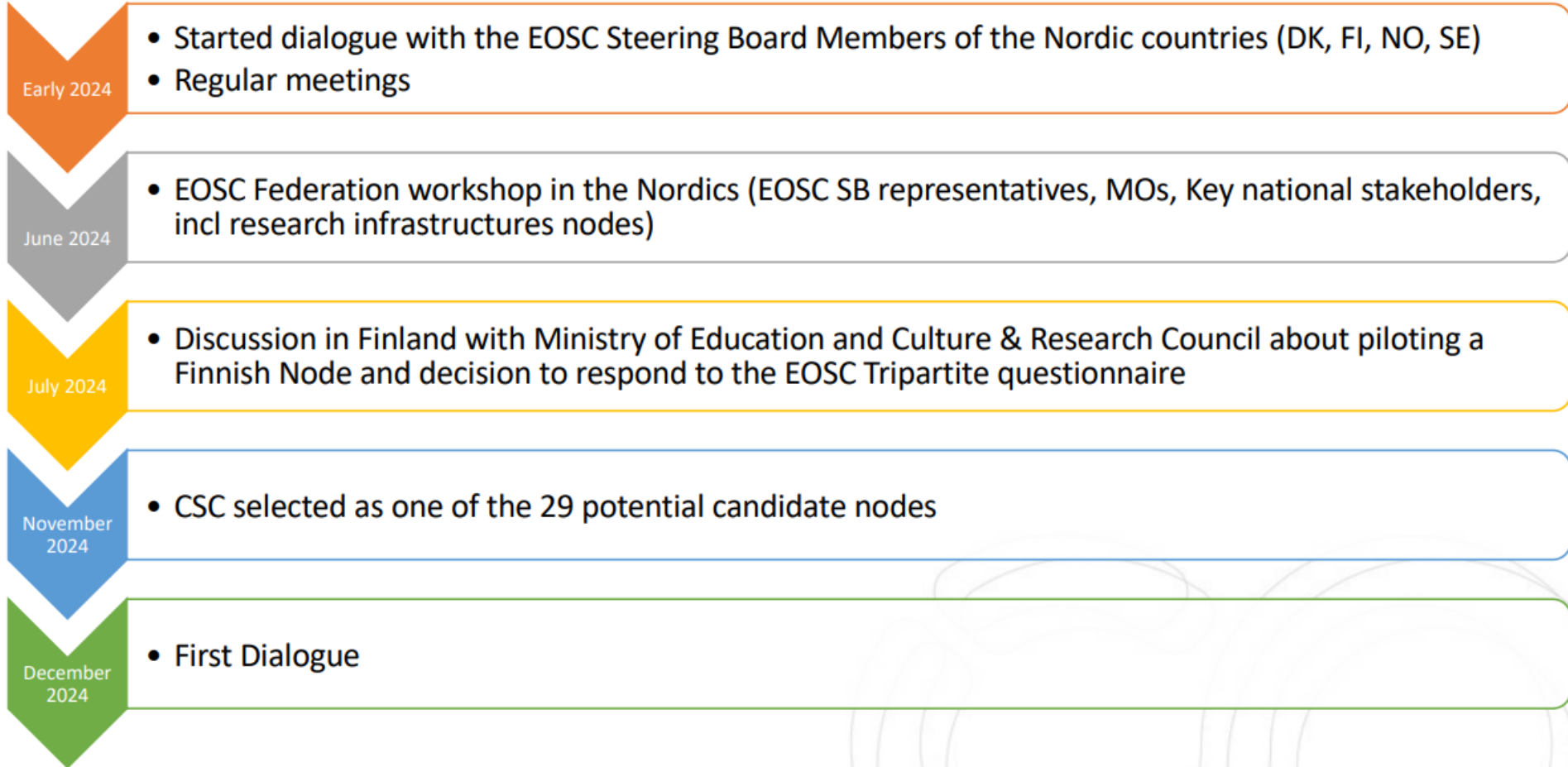
126 members





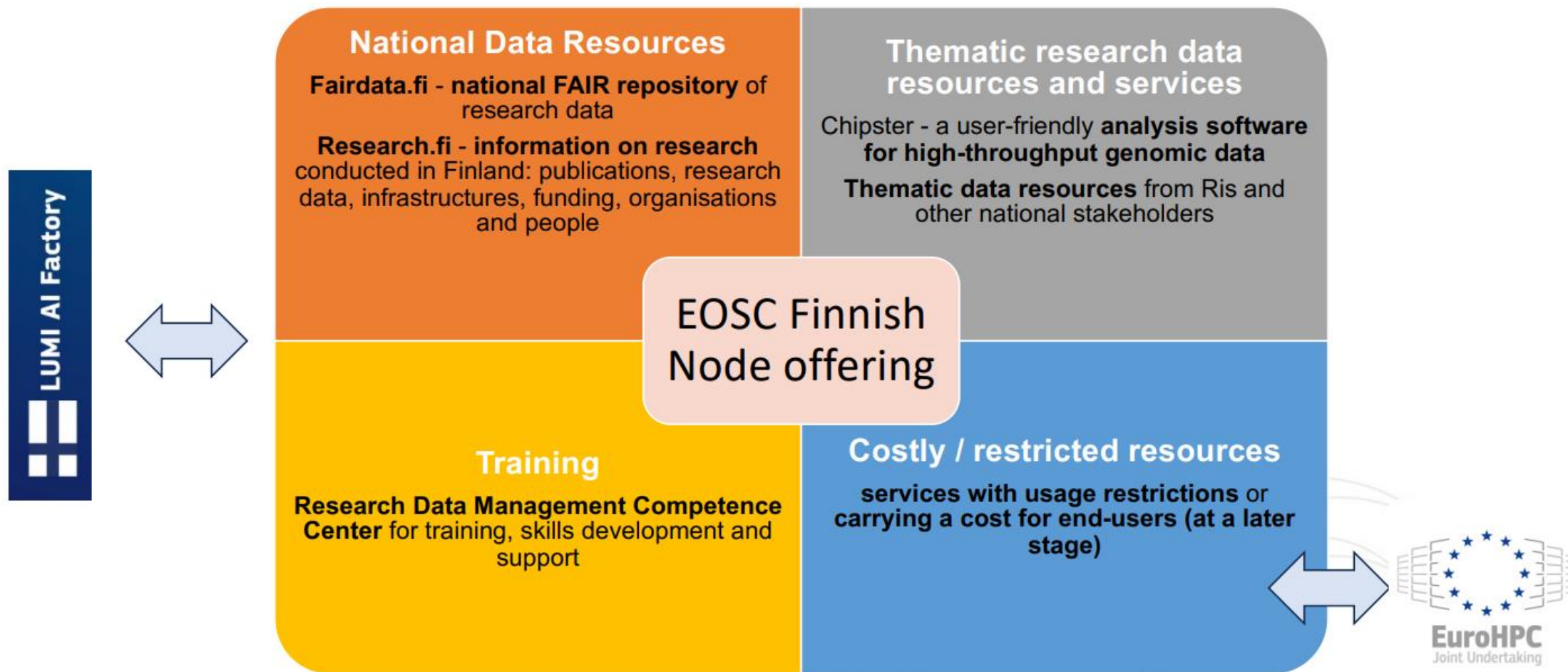
# EOSC in Finland

## Building the EOSC National Node for Finland

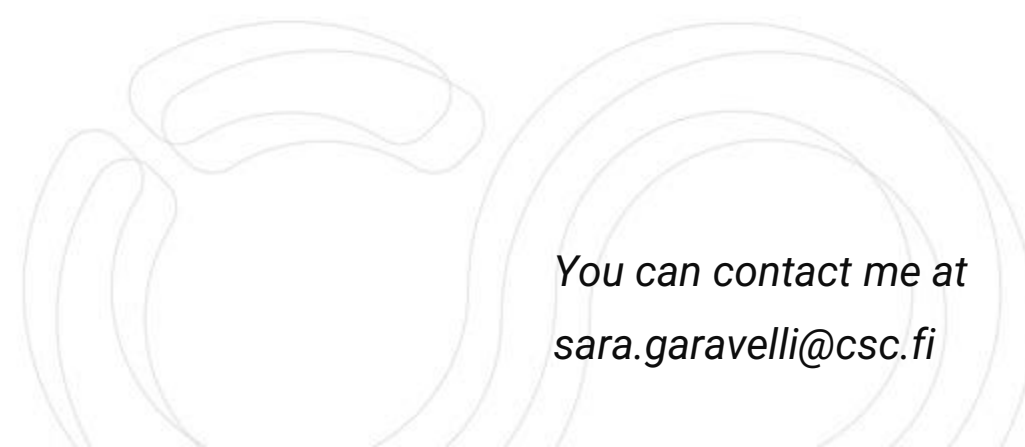


# EOSC in Finland

Building the EOSC National Node for Finland



# Thank you

A decorative graphic in the bottom right corner consisting of several concentric, hand-drawn style circles and loops in a light grey color.

*You can contact me at  
[sara.garavelli@csc.fi](mailto:sara.garavelli@csc.fi)*



# WELCOME

## EOSC Support Office Austria 4th General Assembly

TUESDAY, DECEMBER 17TH, 2024  
UNIVERSITY OF VIENNA  
1 PM TO 5 PM



# Epistemic contributions of data curation: The case of biocuration

Sarah R Davies (sarah.davies@univie.ac.at)

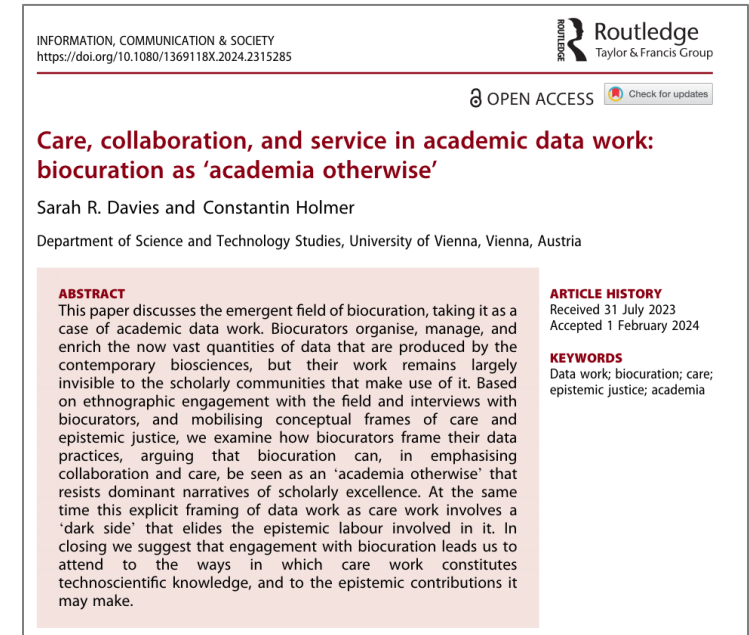
Department of Science and Technology Studies, University of Vienna

4th EOSC Support Office Austria General Assembly, 17<sup>th</sup> December 2024

Data curation is perennially underfunded and **undervalued**...  
...in part because it is misunderstood as merely ‘**clerical**’ or as ‘data entry’...  
...but this ignores its profound contributions to **scientific knowledge production**.

What is this argument based on?

- Biocuration as a central case
- Ongoing ethnographic work with the field of biocuration, and especially with the ISB

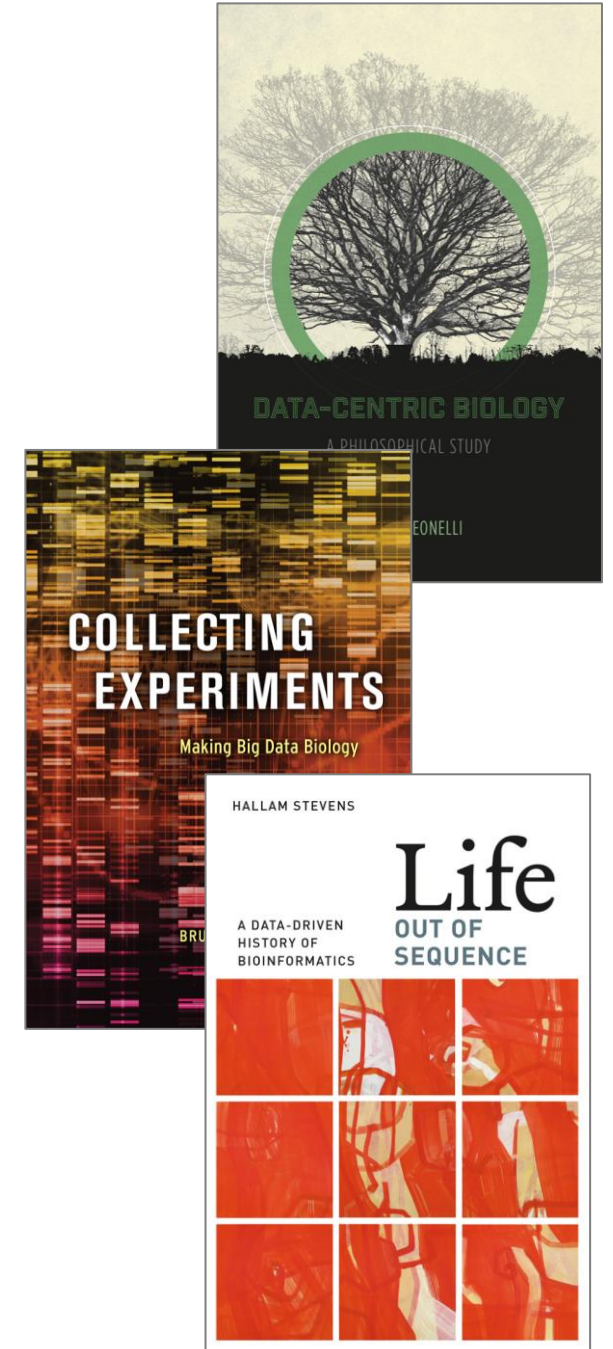






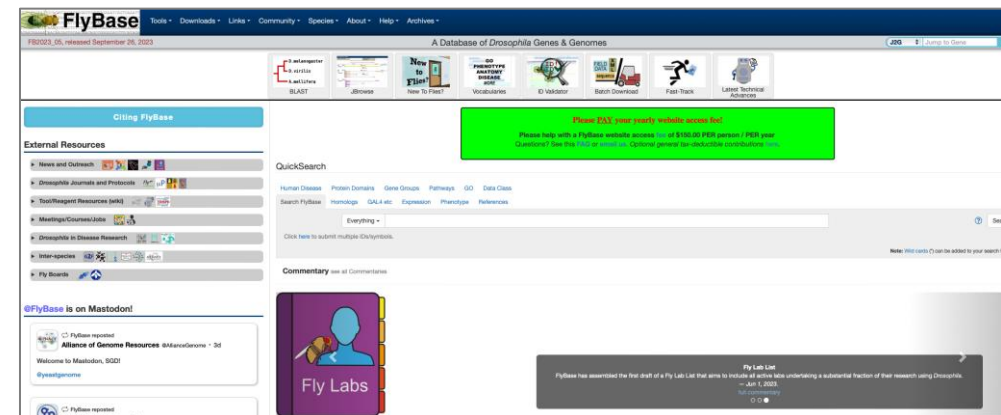
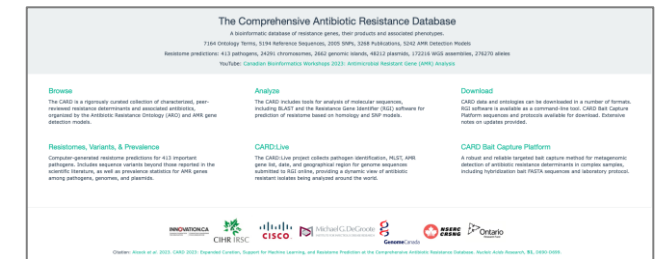
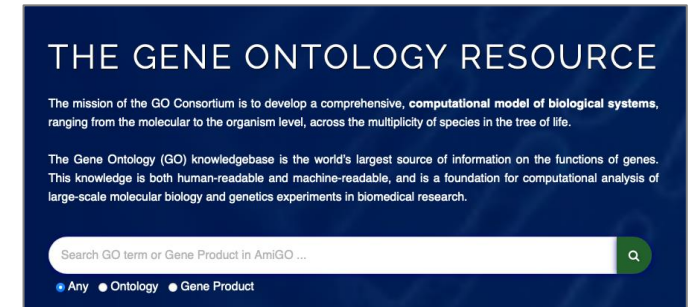
# Biocuration and bio-ontologies

- The wider context is **the digitisation of biology** and a ‘data deluge’ of genetic sequences, protein structures, gene expression information, and more, all of which is produced and managed through diverse forms of **data work**.
- In this context, biocuration is “**the process of identifying, organising, correcting, annotating, standardising, and enriching biological data**” (Tang et al 2019). Its “primary role ... is to extract knowledge from biological data and convert it into a **structured, computable form** via manual, semi-automated and automated methods” (Quaglia et al 2022).
- This is often done in the context of large data- and knowledgebases and through development of bio-ontologies, or classification systems, all of which are designed to be **machine-readable**, and which are now **central to the biosciences**.



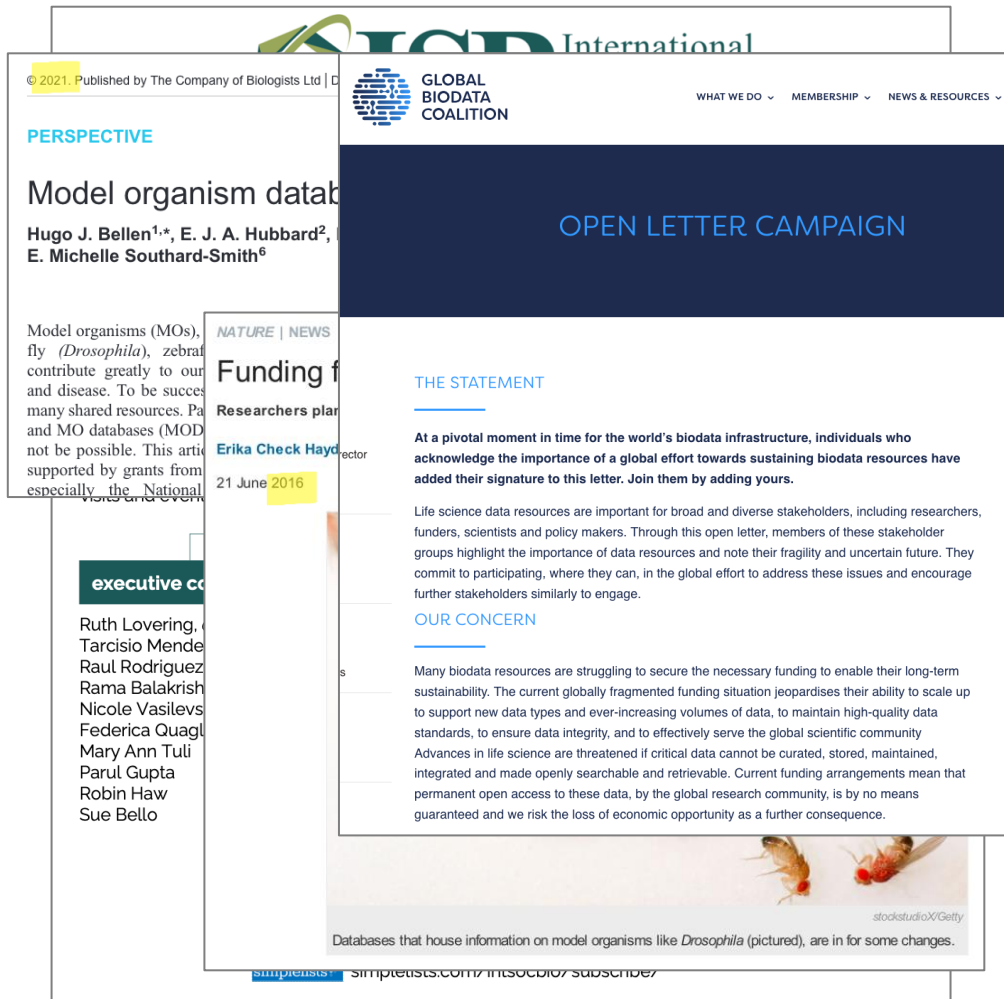
# Biocuration and bio-ontologies

- In practice, biocurators' work can involve:
  - Reading scientific articles and extracting useful information from them;
  - Inputting such information into **databases**;
  - Adding **metadata** and **annotating** information in databases;
  - Creating taxonomies or **ontologies**;
  - Developing digital tools (such as **research infrastructures** or **AI tools** for text-mining);
  - Organising as **collectives** to do these things...
- And can overlap with:
  - Bioinformatics;
  - Data stewardship and FAIR;
  - Ontology development / engineering;
  - Software development;
  - Lab science (through community curation)...





# Experiences of biocuration



- Despite a long history of curation practices in biology, biocuration is **an emergent professional community**.
- The ISB was founded in 2009 and offers a variety of resources, including a generic job description and activities that seek to raise biocuration's profile.
- This is central because biocuration work is **highly precarious**, with few stable career possibilities and **longstanding issues around funding** for curated resources.
- Biocurators often work remotely, in isolated positions (with some key exceptions like the EBI), on small resources.
- It is further a highly **gendered** field that is largely populated by women.

# Experiences of biocuration

"I think my community think of me as a scientist, but I think that's taken time and I think, I think a lot of a lot of communities **don't think of their database providers as true scientists**. They think of them more as computer people"

"So there was this funding crisis that the [funder] did not renew the grant, did not give him a new grant. Because they said, **you're not doing research, we fund research** ... There's no insight from it, right? Reading yet more papers to put more details on more [entity]"

"...we are in the background. Even researchers who heavily use these resources, don't usually know our names and **don't think about us existing**. But they love the resource. And that's actually something we've gotten with the booth when we were in conferences. People will come up and be like, oh you are the [resource]. Wow, you are good, awesome. **They are kind of shocked that there's humans there**"

# The epistemic contributions of biocuration

- Biocuration is thus frequently **invisibilised** within research practice and **de-valued** in research systems...
- ...rendering the conditions of those who work in it (and the work itself) highly **precarious**.
- However, creating, adapting, and maintaining bio-ontologies and other aspects of biocuration does significant **epistemic work** in making bioscientific data and knowledge **usable and thinkable**.

# The epistemic contributions of biocuration

- This lack of recognition and struggle for funding is longstanding and well-documented (Bellen et al 2021; Gabrielsen 2023; Leonelli 2016; Strasser 2019).
- **How to respond to this?** Efforts to professionalise and raise the profile of biocuration are in place and offer one important approach (see Quaglia et al 2022), as do efforts to find forms of attribution and recognition (e.g via ORCID, DOIs for datasets).
- Perhaps framing this as **a justice issue** may also help, drawing on theories of epistemic in/justice.
- **What will it mean to be attentive to (epistemic) justice in academic systems**, in research and in policy, and how might this be relevant to promoting data curation more generally?

“Epistemic injustice refers to those forms of **unfair treatment that relate to issues of knowledge**, understanding, and participation in communicative practices. These issues [include] ... invisibility and inaudibility ... unfair differentials in authority and/or epistemic agency...”

Kidd et al 2017

Epistemic exclusion “as the **systemic devaluation of certain kinds of scholarship** as illegitimate and certain kinds of scholars as lacking credibility”  
Grzanka et al 2023

# Thank you!

Sarah R Davies (sarah.davies@univie.ac.at)

Department of Science and Technology Studies, University of Vienna

4th EOSC Support Office Austria General Assembly, 17<sup>th</sup> December  
2024

# WELCOME

## EOSC Support Office Austria 4th General Assembly

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# Q&A with the Speakers

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# Q&A with the Speakers

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# Feedback Survey

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