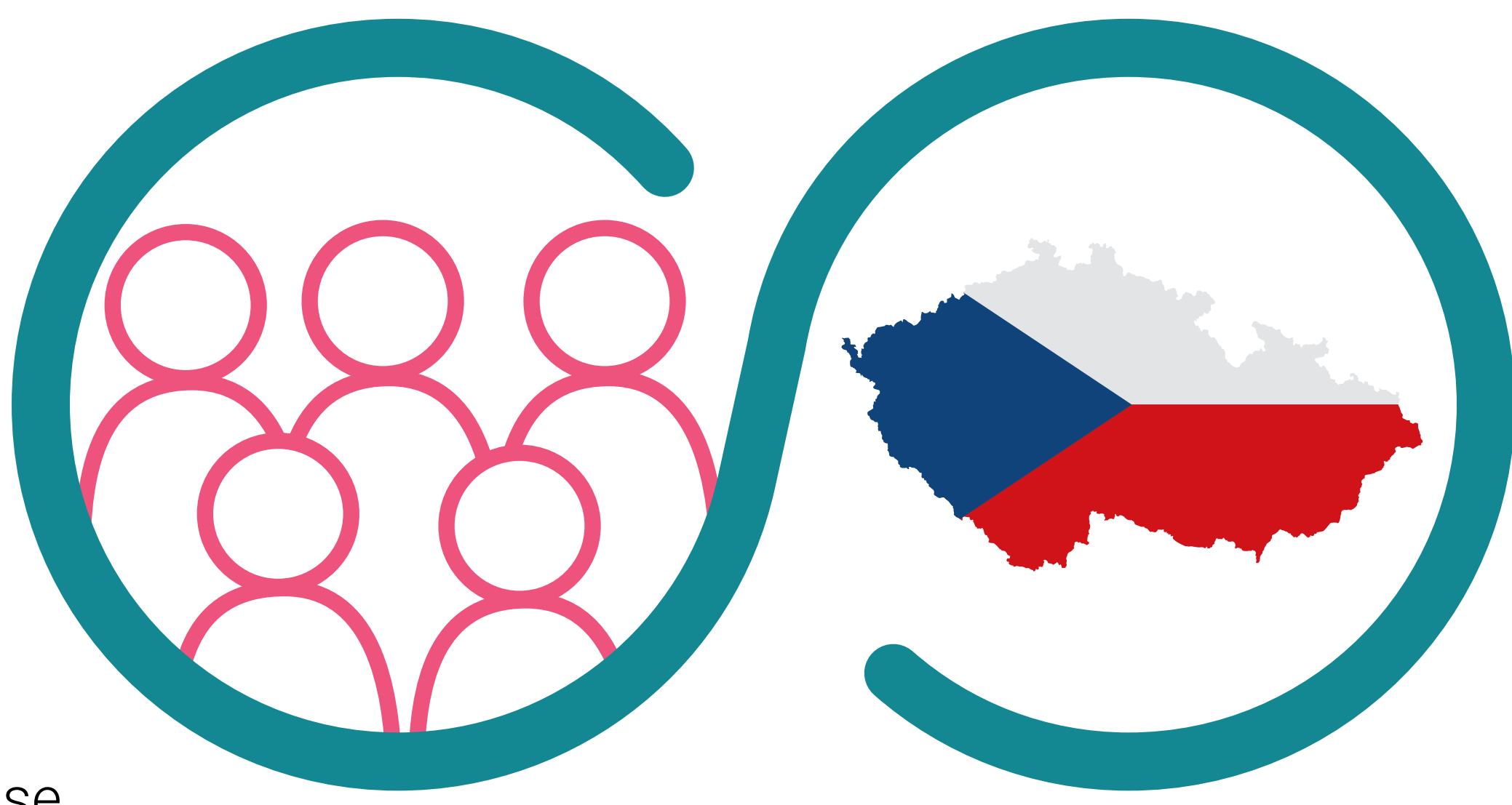


Czech EOSC Working Groups

Ecosystem for FAIR research data

The goal of the EOSC CZ initiative is to ensure that every scientist has access to the necessary information, expertise, skills, institutional support, and services to efficiently store, share, and reuse research data.



2021

EOSC CZ initiative officially started in 2021 by defining Architecture of EOSC implementation in the Czech Republic. The implementation follows a bottom-up approach with major focus on different data management aspects. A crucial aspect is full commitment of Czech government which allocated substantial funding. This allows to support several large projects that together form the National Data Infrastructure (NDI).

The general driving force of the EOSC CZ initiative are Working Groups consisting of researchers and relevant stakeholders countrywide. From the beginning, 12 EOSC CZ Working Groups have been established through a self-organizing community effort. Due to the wide membership base, the Working Groups cover most of the research and professional communities in the Czech Republic with the interest in FAIR research data management. To this date, the Working Groups connect more than 400 interested individuals.

2024

The Working Groups discuss and eventually propose standards (architectural, operational, metadata) that will be binding for the implementation of the entire National Data Infrastructure (NDI).

The active participation of scientists in the Working Groups has already contributed to the preparation of the National Repository Platform (NRP) project and, its integrated FAIR data-related services designed for NDI users. The main and most practical outputs include a Catch-all repository for research data, pilot field-specific repositories, support for data management planning via the Data Stewardship Wizard tool, support for persistent identifiers (PIDs), and assistance with data FAIRification.

In addition, the Working Groups collaborate with the EOSC CZ Training Centre that provides comprehensive facilities for training, education, and related activities. The Working Groups define training requirements, identify training topics and help to identify communities in need of training.

2028

By the end of 2028, we expect researchers in the Czech Republic to adopt systematic research data management as a common practice, aided by a fully functional and sustainable data infrastructure. This infrastructure will help accelerate secondary data use, connecting to the international EOSC environment and linking data and computing resources. The focus on data will lead to the explicit involvement of data experts (e.g. data stewards) and, as a result, to a change in the view of the importance of research data as a key output of scientific work.

12

Working Groups

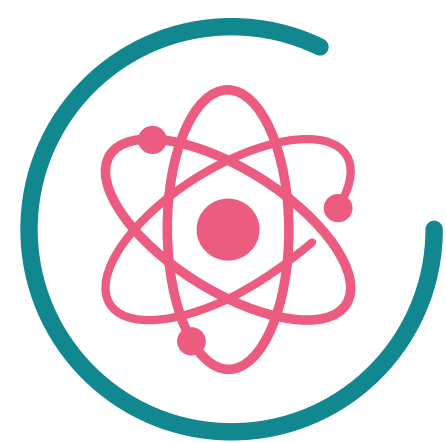
405

Members

64

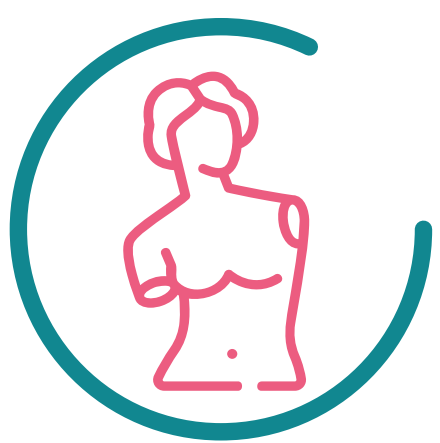
Institutions

Physical Sciences



35 members

Humanities and the Arts



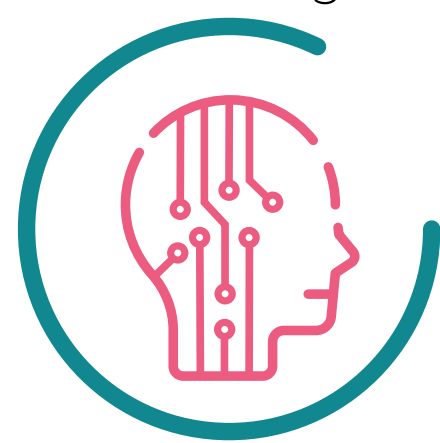
54 members

Environmental Sciences



51 members

Data Management for AI and Machine Learning



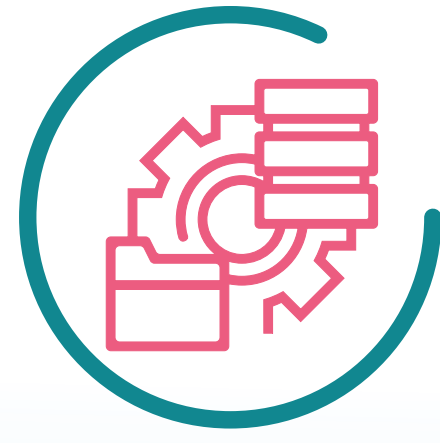
85 members

Bio/Health/Food



93 members

Materials Sciences and Engineering



49 members

Sensitive Data



87 members

Social Sciences



44 members

Core Services



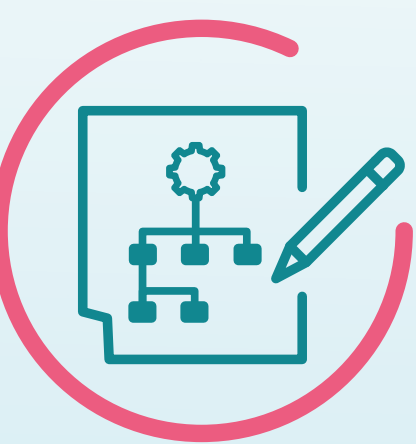
99 members

Metadata



113 members

National Data Infrastructure (NDI) Architecture



80 members

Education and Human Resources



73 members

OPERATING PRINCIPLES of WGs

- WGs represent the scientific community in the Czech Republic
- Support through the WG secretaries
- Monthly meetings
- WG chairs lead meetings
- Chairs meet fortnightly
- Functioning by consensus
- In-kind contribution
- Open to new members
- Connection to OS communities and stakeholders

National Repository Platform

1. Repositories as a service
2. Storage capacity
3. Catch-all repository
4. Services and tools
 - Data management planning (DMP) support
 - Persistent Identifier (PID) support
 - FAIRification support

Education and Training

1. System education in data management via EOSC CZ Training centre
2. System education in data management via large national projects
3. Shared knowledge and know-how in research community

Architectural and Operational Standards

1. Defining requirements for field-specific repositories
2. Data management principles
3. Metadata models

Field-specific Tools and Repositories

1. Building new repositories
2. Integration of existing repositories
3. Development of tools and services

Systematisation of research data management

Close integration with the international EOSC environment

Interoperability (services and data)

Highlighting the importance of science data

INFRASTRUCTURE

NDI (sustainable National data infrastructure)

Secondary use of research data (data re-use)

Data experts in science (i.e. Data Stewards)



Co-funded by
the European Union

