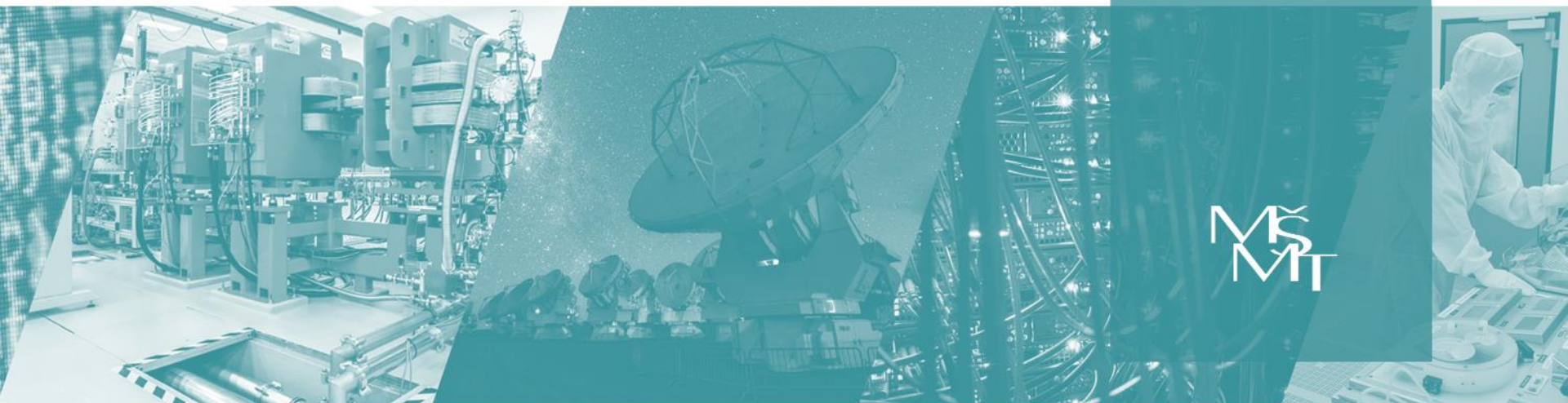




EU2022.CZ

# Implementation of the EOSC initiative in the Czech Republic



MSMT

*European Open Science Cloud (EOSC) Symposium  
14th–17th November 2022, Prague, Czech Republic*

# 1. RESEARCH INFRASTRUCTURES POLICY-MAKING AND PUBLIC FUNDING

## ● NATIONAL LAW-BASED RESEARCH INFRASTRUCTURES

- Initiative to finance research infrastructures set up under a country's national law, mostly **research infrastructures based in Czechia**, but also **facilities located abroad**
  - Operation and investment costs, membership fees for international cooperation
  - In-kind deliveries (technologies, maintenance, services) to international facilities

## ● EU AND INTERNATIONAL LAW-BASED RESEARCH INFRASTRUCTURES

- Initiative to finance research infrastructures established under the EU and international law as **European Research Infrastructure Consortia (ERIC)** and **international R&D organisations**
  - Payments of mandatory membership fees
  - Contributions to optional programmes and projects

## ● NATIONAL CENTRE FOR ELECTRONIC INFORMATION RESOURCES IN R&D

- Initiative to finance the **Czech national licence centre** to purchase and provide access to electronic information resources in R&D, such as electronic journals and books, and specialised R&D databases

## ● NATIONAL INFRASTRUCTURE FOR SCIENTIFIC DATA

- Initiative to finance the development of the **Czech national data infrastructure**, implement the concept and federate it within the European Open Science Cloud



## 2. STAKEHOLDERS ENGAGEMENT AND COORDINATION MECHANISM

### ● COORDINATION COMMITTEE FOR THE EOSC IMPLEMENTATION IN CZECHIA

- Since 2021, a **high-level coordination platform** driven by the Ministry of Education, Youth and Sports, as the public authority responsible for R&D policy-making and public funding, including research infrastructures
- Composed of **leading Czech R&D stakeholders**
  - Ministry of Education, Youth and Sports (lead policy-maker and funder)
  - e-INFRA CZ (Czech national e-infrastructure)
  - National Library of Technology (open science policy coordinator)
  - Czech Rectors Conference (higher education institutions)
  - Czech Academy of Sciences (public research sector)
  - Czech Science Foundation, Technology Agency (grant agencies)
  - Council for Research, Development and Innovation (advisory board)

### ● ARCHITECTURE OF THE EUROPEAN OPEN SCIENCE CLOUD IMPLEMENTATION

- High-level policy orientations on the EOSC implementation in Czechia
- A five-pager from mid-2021 setting out essential principles of EOSC-CZ
- Co-created by policy-makers, e-infrastructure operators and R&D actors
- Linking architecture design, implementation plan and funding instruments



### 3. IMPLEMENTATION ARCHITECTURE AND SUPPORT STRUCTURE

- **EOSC-CZ SECRETARIAT**

- Operated by the **e-INFRA CZ** Czech national e-infrastructure consortium
- Composed of three e-infrastructure pillars, mutually complementing each other
  - **CESNET** – NREN network, computational grids, data storage, ICT environment
  - **CERIT Scientific Cloud** – cutting-edge experimental computing and data storage
  - **IT4Innovations** – high performance computing, data analysis, artificial intelligence

- **WORKING GROUPS**

- Inclusive platforms with fluid membership open to any interested stakeholder
- **Cross-cutting areas** – horizontal data infrastructure challenges
  - (1) Architecture, (2) Metadata, (3) Core services, (4) Education and training
- **Thematic clusters** – specific needs of individual R&D disciplinary domains
  - (1) Physical sciences, (2) Material sciences and technology
  - (3) Data management for artificial intelligence and machine learning
  - (4) Environmental sciences, (5) Biological and medical sciences and food
  - (6) Social sciences, (7) Arts and humanities
  - (8) Sensitive data



## 4. CZECH NATIONAL DATA INFRASTRUCTURE ARCHITECTURE

### ● NATIONAL METADATA DIRECTORY

- Coordinated through the Working Group on Metadata
- Key component, guaranteeing findability and interoperability of data
- Centrally managed component directly interacting with all other components

### ● NATIONAL REPOSITORY PLATFORM

- Coordinated through the Working Groups on Architecture and Core Services
- Capacity building and providing basic/common data infrastructure services
- Defines standards and interfaces for the technical interoperability

### ● THEMATIC REPOSITORIES

- Coordinated through Thematic Working Groups
- Support of already existing and ongoing activities (research infrastructures)
- Definition of new science-disciplinary data needs and their facilitation

### ● EDUCATION AND TRAINING

- Coordinated through the Working Group on Education and Training
- Human resources development for the FAIR data management





## 5. IMPLEMENTATION PLAN AND FUNDING SCENARIOS

### ● OPERATIONAL PROGRAMME JOHANNES AMOS COMENIUS

- EU Cohesion Policy Funds for the public research sector in 2021–2027
- Series of complementary calls for research and national data infrastructures
- Budget allocation for upgrades of research infrastructures ≈ **EUR 240 million**
- Budget allocation for the EOSC implementation ≈ **EUR 120 million**

### ● FIRST CALL – already launched in 2022

- Support structure of the **EOSC-CZ Secretariat**
- Development and capacity building of the **National Metadata Directory**
- Coordination and providing of **education and training** for the FAIR data management

### ● SECOND CALL – under preparation, to be launched in 2023

- Development and capacity building of the **National Repository Platform**

### ● THIRD CALL – under preparation, to be launched in 2024

- Capacity building of the **thematic clusters data repositories**

### ● FOURTH CALL – under initial consideration with possible launch in 2025

- Activities directed at **uptake and upskilling**







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**Europe as a Task: Rethink, Rebuild, Repower**





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MINISTRY OF EDUCATION,  
YOUTH AND SPORTS

# THANK YOU VERY MUCH FOR YOUR ATTENTION!

**MR LUKÁŠ LEVÁK**

DIRECTOR OF DEPARTMENT  
FOR RESEARCH AND DEVELOPMENT

OFFICE: +420 234 811 511

MOBILE: +420 777 721 349

E-MAIL: LUKAS.LEVAK@MSMT.CZ



Karmelitská 529/5  
118 12 Prague 1



[msmt@msmt.cz](mailto:msmt@msmt.cz)



+420 234 811 111



[www.msmt.cz](http://www.msmt.cz)