

# Towards a Belgian Federal Open Science Cloud (FedOSC)

## The Belgian Federal Open Science Cloud (FedOSC)

FedOSC's aim is to facilitate the integration of research data and publications from the Belgian Federal Scientific Institutions (FSIs) into the **European Open Science Cloud (EOSC)**.

FedOSC will provide domain-specific data management expertise to support the thematic clusters of the FSIs.

# FedOSC



[https://www.belspo.be/belspo/fsi/index\\_en.stm](https://www.belspo.be/belspo/fsi/index_en.stm)

## FedOSC activities

### Best practices in :

- Research Data Management (RDM)
- FAIR+** (FAIR+ includes long-term storage and preservation of research data)
- CARE**



### Topics:

- Long-term storage
- Preservation
- Ethical and legal considerations
- Unique identification of data and publications (Persistent Identifiers)
- Inter-linking of data, publications and other research outputs will also be considered

## A collaborative initiative

Collaboration between:

- Belgian Science Policy Office (BELSPO)**
- Belgian National Research Network (Belnet)**
- Belgian Federal Scientific Institutions (FSIs)**



[https://www.belspo.be/belspo/index\\_en.stm](https://www.belspo.be/belspo/index_en.stm)  
<https://belnet.be/fr>

Interrelationships:

- ESFRI Research Infrastructures and Science Clusters
- European Strategy for Data
- European Open Science Cloud (EOSC)
- Common Data Space Initiatives
- Flemish Open Science Board (FOSB)
- Flemish Research Data Network (FRDN)
- Open Science in Wallonia

## The role of the Data Stewards

A team of **4-5 Data Stewards** led by the **FedOSC Project Manager** (Belnet) will provide domain-specific data management expertise to support the four thematic clusters of the FSIs:

- Art
- Nature
- Space
- Documentation
- Integration of other FSIs or Belgian Institutes

This domain-specific expertise is essential to ensure a high-quality Federal Open Science Cloud (FedOSC).

## Phase 1: Inventory of Datasets and Needs Analysis

### Goals:

- Identify the needed **support** to make the data FAIR and compatible with the EOSC interoperability Framework
- Focus on key **challenges** and shared **needs** across the FSIs

### Activities:

- Inventory of data sources managed by FSIs (which are:):
  - KMKG-MRAH
  - KMSKB-MRBAB
  - KIK-IRPA
  - KBIN-IRSNB
  - KMMA-MRAC
  - BIRA-IASB
  - KMI-IRM
  - KSB-ORB and Planetarium
  - RA-AE
  - KBR
- Selection of potential datasets for onboarding to EOSC

## Phase 2: FedOSC Implementation

### Goals:

Implement a **plan** to support onboarding of a selected number of federal data sources into EOSC

### Activities:

- Developing services and infrastructures (Belnet) according to the needs of the FSIs
- Include common services
  - Orfeo
  - SODHA
  - Domain-specific services



<https://orfeo.belnet.be/>



<https://www.sodha.be/>



## Phase 3: Sustaining Federal Open Science and Open Data activities

### Goals:

Develop a **long-term strategy** to sustain Open Science and Open Data activities at the FSIs

### Activities:

- The long-term strategy will take into account:
- Role of the FSIs in delivering data sources from the EOSC
  - EOSC EU Node and the future shape of the EOSC Federation
  - Belgian strategy towards EOSC, including EOSC Nodes as part of the EOSC Federation
  - Role of domain-specific expertise in EOSC, see Science Clusters: Position Statement on operational commitment to EOSC and Open Research (<https://doi.org/10.5281/zenodo.10732049>)

<https://eosc.eu/>



Chambers, S., Fremout, W., Bruyninx, C., Kauranne, S., Vanholsbeeck, M., Claessen, E., Bercegeay, M.-S., Monteny, F., Osstyn, D., Haex, D., Deriemaeker, N., Strobbe, F., Miglio, A., (2024) *Towards a Belgian Federal Open Science Cloud (FedOSC)* - a poster for *The European Open Science Cloud (EOSC) and national/regional Open Science Policies*, Brussels, 16 April 2024.



# FedOSC



This work is licensed under a Creative Commons Attribution 4.0 International Licence



## Towards a Belgian Federal Open Science Cloud (FedOSC)



@belspo

@belnet\_be

@KBRbe

@nat\_sciences\_be

@kikirpabe

@ORB\_KSB

[https://www.belspo.be/belspo/index\\_en.stm](https://www.belspo.be/belspo/index_en.stm)

