

# FAIR Metrics and Digital Objects Task Force

## Terms of Reference

### 1. TF Background and Scope

The FAIR metrics and Digital Objects Task Force focuses on the issues of the federation of FAIR data, extending the traditional FAIR metrics that focus mainly on features related to the repository. The TF pursues analysing the issues on the different schemas, access models, domain standards, basic provenance and data usage models to define new FAIR metrics that could assess the suitability for federation of data and repositories.

The Strategic Research and Innovation Agenda of EOSC strongly focuses on the fulfilment of the FAIR principles with the Strategic Objectives SO4 (increased FAIR by design) and SO5 (EOSC Interoperability Framework of FAIR DOs), as well as the Operational Objectives OO5 (specifications for FAIR DOs) and OO6 (FAIR metrics). The TF is also aligned with several priorities of the Multi-Annual Roadmap, such as the liaison with HEU projects and the domain-specific environments (in objective 1) and fostering FAIR-enabled trusted repositories (in objective 2).

#### 1.1. Main Objective

The main principles and delivery objectives of the specific TF are listed next:

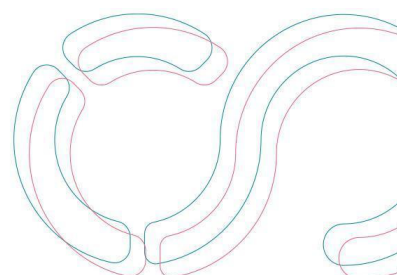
- Identify the limitations of the current FAIR assessment, which is mainly focused on the FAIRness of the repository, for evaluating the reusability of data. Currently, the FAIR assessment is mainly focused on the discoverability of data, which is insufficient for assessing the capability of data to be federated.
- Watch and promote initiatives (such as GREI, Signposting, RO-Crates, etc) to facilitate the definition of common metadata schemas and their interoperability.
- Identify issues on data privacy, considering data usage, data access and data licensing and specification for machine-actionable data usage policies (e.g. ODRL)
- Analyse the impact of provenance, especially in the context of federated environments.
- Identify synergies with the Data Spaces initiative.
- Define FAIR metrics according to the objectives of the task force.
- Engage with research clusters, empowering them to implement data quality practices tailored to their unique contexts by actionable recommendations, like DQ indicators to ensure data quality, addressing areas, for example, AI training and input data.

#### 1.2. Key Focus Areas

The set of measurable Key Focus Areas (KFAs) contributing to the main objective is listed next:

#### **EOSC Association AISBL**

Rue du Luxembourg 3, BE-1000 Brussels, Belgium  
+32 2 537 73 18 | [info@eosc.eu](mailto:info@eosc.eu) | [www.eosc.eu](http://www.eosc.eu)  
Reg. number: 0755 723 931 | VAT number: BE0755 723 931



- KFA1: Survey and analyse the benefits and limitations of the existing technologies for metadata schemas and their interoperability, focusing on the reusability of data and provenance.
- KFA2: Identify issues and limitations when dealing with private data in repositories, focusing on the managing of data access limitations.
- KFA3: Identify synergies and complementarities with respect to the Data Spaces, especially considering the Simpl Open middleware and the implementation at the different Data Spaces.
- KFA4: Proposal of FAIR Metrics for the evaluation of the reusability of data, considering the analysis of the previous Key Focus Areas.
- KFA5: Developing data quality indicators, establishing a support framework, and outlining what EOSC can offer in terms of data quality enhancements are critical for fostering a robust data ecosystem.

### 1.3. Expected Membership

The TF is expected to raise the interest of experts from research communities, Data repositories and Research Infrastructure jointly will gather the necessary skills required for achieving the TF objectives.

