



**EUROPEAN OPEN  
SCIENCE CLOUD**

# Monitoring FAIRness across the EOSC Partnership – EOSC Association's perspective

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# 1. Introduction to the EOSC-A monitoring activities



# 1.1 General objectives of the EOSC Partnership



Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'



Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results



Establish a sustainable and federated infrastructure enabling open sharing of scientific results

# EOSC PARTNERSHIP MONITORING FRAMEWORK

AIM: provide a consistent approach to monitoring and evaluation of the EOSC Partnership

Measures of  
success/ Key  
Performance  
Indicators

Baseline  
and target

Data source

Data  
provision

Data  
collection

General, specific and operational objectives set out by SRIA



# 1.3 MoU between the EOSC-A and the EU

## EN Annex 5

### Memorandum of Understanding for the Co-programmed European Partnership for the European Open Science Cloud (EOSC)

The European Open Science Cloud Association, representing the partners other than the Union (its constituent entities<sup>1</sup>), the registered offices of which are in Rue du Trône 62, 1050 Bruxelles, hereafter referred to as the "Partners other than the Union", and the European Union, represented by the European Commission, (jointly hereinafter referred to as "the Partners").

Considering that:

- Parts of Horizon Europe – the Framework Programme for Research and Innovation ("Horizon Europe")<sup>2</sup> – may be implemented through Co-Programmed European Partnerships, on the basis of a Memorandum of Understanding between Partners determined to support the development and implementation of research and innovation activities of strategic importance to enable the Union to address global challenges and maintain its competitiveness in line with EU priorities, including the Sustainable Development Goals;
- The Strategic Plan for Horizon Europe<sup>3</sup> has identified a candidate for a Co-Programmed European Partnership for the European Open Science Cloud (EOSC) considered instrumental to deliver scientific, economic and societal impact in line with the Horizon Europe objectives;
- The proposal received from the Partners other than the Union has been positively assessed by the European Commission in that it fulfils the new ambition and the selection criteria referred to in Article 10 and Annex III of Regulation (EU) 2021/695 of the European Parliament and of the Council<sup>4</sup> ("Horizon Europe");
- The implementation, monitoring and evaluation of the European Partnerships will comply with the criteria referred to in Annex III of Horizon Europe, including an alignment with Horizon Europe monitoring and evaluation provisions, set out in Article 50 and Article 52, as well as Annex V on Key Impact Pathways;
- The multi-annual Strategic Research and Innovation Agenda (SRIA) agreed by the Partners will provide the basis for the development of the co-operation under this

<sup>1</sup> Constituent entities are the members of the Association.

<sup>2</sup> Regulation (EU) 2021/695 of the European Parliament and of the Council of 28 April 2021 establishing Horizon Europe – the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination (OJ L 170, 12.5.2021, p. 1–68).

<sup>3</sup> <https://ec.europa.eu/cer/web/eu-law-and-publications/publication-detail/-/publication/5061d748-80c3-11eb-885-01a775ed71a1>

<sup>4</sup> (EU) L 170, 12.5.2021, p. 1–68.

RTD	DATE
ARES	20/08/21
ARRIVES	N° 505A 504
	CODE DOSSIER

- Signed on 30<sup>th</sup> of July 2021
- EOSC-A duties:
  - Measure the progress of the Partnership towards its objectives based on KPIs
  - Report on delivery of in-kind contributions to additional activities and investments in operational activities
  - Highlight “impact case studies”

# 1.4 Let's meet EOSC-A Monitoring Team!

Ilaria Nardello, Ph.D.  
Senior Policy Officer



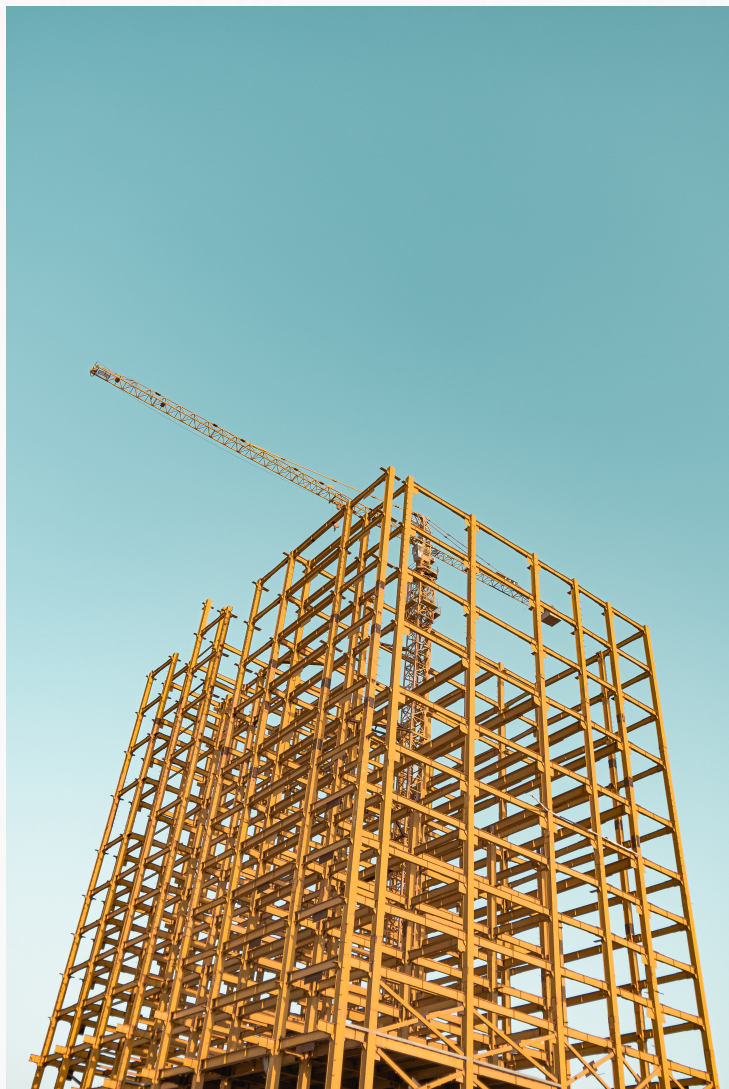
Justyna Kramarczyk, Ph.D.  
Policy Officer



## 2. Monitoring Framework: Key Performance Indicators (KPIs)



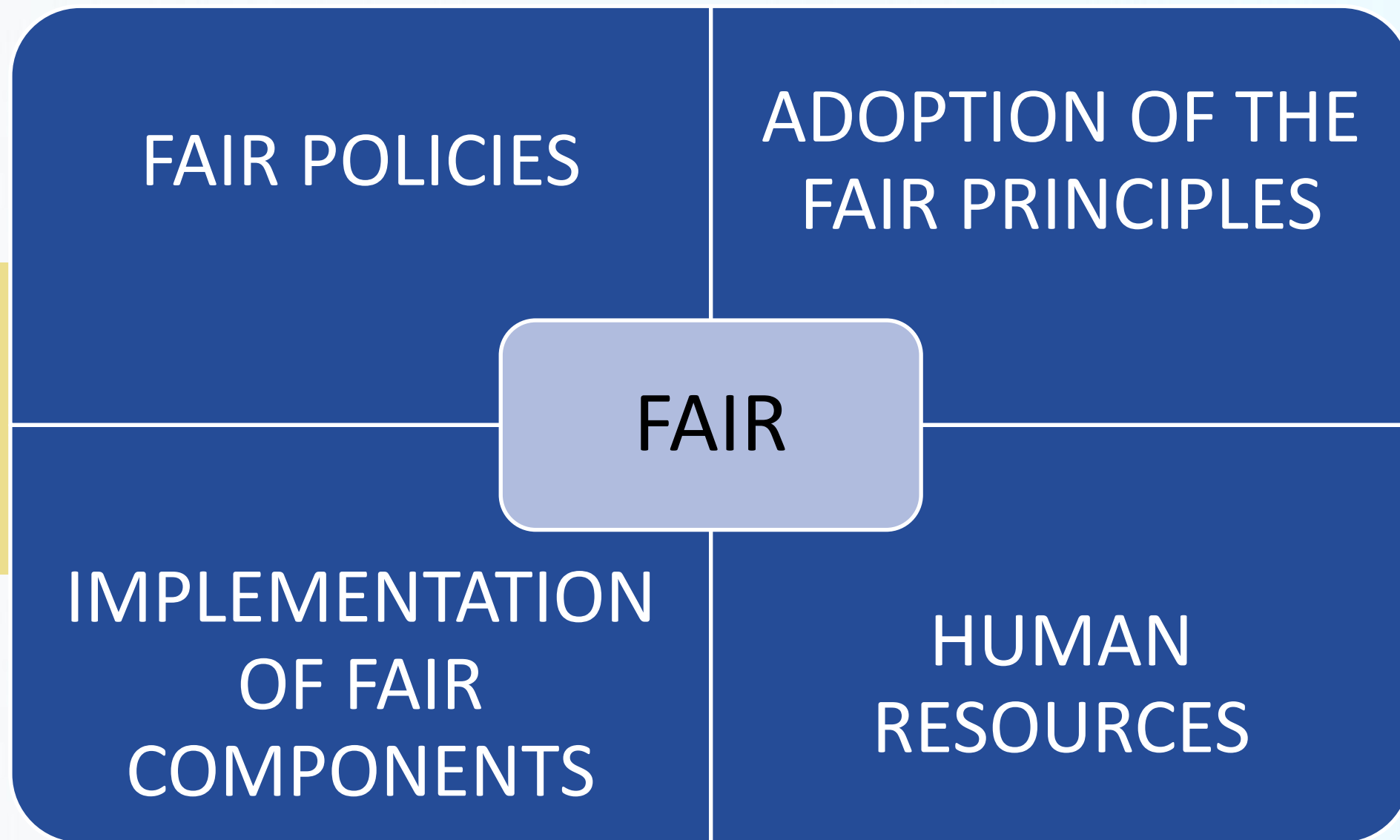
## 2.1 Monitoring Framework: status



- Current Draft Framework (summer 2021)
- Towards the Monitoring Framework Agreement (revision in progress)
- Survey

## 2.2 FAIRness in Draft Monitoring Framework

In close relation to  
the gaps indicated  
in SRIA



# A. FAIR policies

**SO2** Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science

**KPI:** Number of national education systems that recognise European curricula for data stewardship (*5 by 2025*)

**SO3** Development and adoption of incentives for researchers to perform Open Science

**KPI:** % of RFO members of the EOSC-A have policies in place to require data sharing and incentivise re-use (*70% by 2025*)

**SO4** Increasing amounts of research data produced by publicly funded research in Europe are FAIR

**KPI:** % of members of the EOSC-A have policies which require FAIR to be implemented in project design via Data Management Plans (*70% by 2023*)

## B. Adoption of the FAIR principles

**SO1** Increase the number of relevant research results that are made available as open as possible by researchers performing publicly funded research

**KPI:** % of publications from EOSC Association RPO members that become immediate open access (*70% of total publication record by 2023*)

**SO5** The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects

**KPI:** The EOSC Interoperability Framework is adopted by at least 5 major research infrastructures in Europe *by 2023*

**OO6** Provide the metrics and tools to measure the adoption of the FAIR principles and provide frameworks to help in certifying that repository services enable FAIR in EOSC

**KPI:** Number of available FAIR assessment tools to measure the FAIRness of research digital objects.

## C. Implementation of FAIR components

**OO5** Provide the technical components of a FAIR ecosystem for uptake and customisation by the communities by 2023

**KPI:** Technical components supporting FAIR digital objects like standards, schemas, APIs, frameworks are specified by EOSC related communities and supported by the service providing organisations *by 2025*

**OO11** Implement the EOSC persistent identifier (PID) policy and architecture by 2025

**KPI:** Persistent identifier allocation and usage is the adopted practice by RPO members of the EOSC Association *by 2025*

## D. Human resources

**SO2** Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science

**KPI:** % of the RPOs that are EOSC Association members have data stewards to support their research (*50% by 2025*)

**OO3** Increasingly mainstream Open Science skills in European RPOs

**KPI:** % of EOSC-A RPOs across Europe offer training on Open Science and FAIR data for researchers and data stewards (*50% by 2025*)

**OO8** Co-design and adopt a rewards and recognition framework for FAIR and open data practices in research

**KPI:** % of EOSC Association members that recognise Open Science and FAIR activities in research career assessments (*50% by 2025*)

## 3. Additional Activities

## 3.1 What do Additional Activities stand for?

Activities that are:

- in-kind or cash EOSC-A Members' contributions
- scope with the [the Strategic Research and Innovation Agenda \(SRIA\)](#)
- NOT covered by European Union funding (except for EC Structural Funds and RRF)



## 3.2 AA Categories

	1. Support to additional R&I		4. Creating new business opportunities		7. Supporting ecosystem development
	2. Scale up of technologies		5. Training & skills development		8. Communication, dissemination, awareness raising, citizen engagement
	3. Demonstrators		6. Contribution to development of new standards, regulations, and policies		9. Other

## 3.3 FAIRness in AA categories



- Deployment of online tools for FAIRification

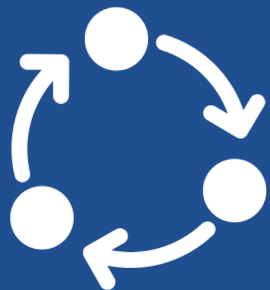


- Education, training and skills development in Open science and FAIR data management of research artefacts
- Coordinating and aligning curricula on skills for FAIR and Open Science

## 3.3 FAIRness in AA categories



- Standardisation and certification activities related to EOSC trusted repositories (e.g. CoreTrustSeal)
- Development of applicable FAIR guidelines and frameworks
- Standardisation of persistent identifier (PID) resource types



- Monitoring of EOSC key performance indicators (KPI's), investments and FAIR data production and management
- Contributing to a rewards and recognition framework that incentivises FAIR data and Open Science

## 3.4 AAP 2022 Survey

- **WHY**
  - to establish AAP 2022
  - to report on spending of AAP2021
- **WHEN:** 24 January - 11 February 2022
- **HOW:** online survey via commercial platform
- **WHO:** all EOSC Association Members

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7% (1/15)

### Contributions to additional activities SURVEY

Dear EOSC Association Members, Dear Colleagues,

On behalf of the European Open Science Cloud Association, we kindly invite you to complete the presented survey. It aims to collect information on in-kind and financial contributions of EOSC Association Members towards the specific and operational objectives, defined in [EOSC Strategic Research and Innovation Agenda \(SRIA\)](#) and the [Memorandum of Understanding](#) between the European Union and the EOSC Association.

The Association is committed to establish an "Additional Activities Plan" (AAP), and to report on it, annually. **Additional Activities** are defined as the contributions from our members (in-kind or financial) towards the objectives defined by the Partnership, as described in the MoU (which are NOT financed by the European Union). As described in the MoU, the Members of the Association have committed to deliver a volume of additional activities totalling to at least €500 million, over the duration of the EOSC Partnership (i.e.: until the end of 2030). These activities will be presented and monitored according to a scheme given by the EC for all co-programmed partnerships. Assessing these additional activities committed and/or spent by the Members on a yearly basis is an obligation which all EOSC Association Members have committed to, by signing up.

The objective of this survey is to **estimate budget provisions by EOSC-Association Members to additional activities in 2022**. This will help us prepare an "Additional Activities Plan" for 2022 with the aim to steer R&I investments towards achieving the Partnership's objectives.

The questionnaire comprises two sections: one general section - Section I "Your organization and your profile"; Section II "Monitoring the additional activities in 2022", requesting information on forecast contributions for 2022.

A third section, Section III "Reporting on the additional activities in 2022", will be available only to the subset of mandated members who have contributed to the AAP2021. In this section, we are asking those members to report on the contribution they actually provided, in 2021.

**Please note:**

- Respondents should only take the survey only once;
- If you need to close the survey before you have finished, your information will be saved automatically and will be available (and editable) upon entering the survey;
- Responses are editable until you reach the final page, after which it is not possible to go back to the previous sections of the questionnaire.
- Questions marked with an asterisk (\*) are mandatory;

If you wish to study the content of the survey off-line, you can download a PDF copy from here: [EOSC-A\\_AAP\\_Survey\\_2022\\_Copy](#).

If you have questions about the survey, please contact the EOSC Association monitoring team, at: [monitoring@eosc.eu](mailto:monitoring@eosc.eu).

**Thank you for your participation, we really appreciate your input.**

<https://survey.lamapoll.de/2022EOSCAAPsurvey/>

1/4



For any information, contact the EOSC-A Monitoring Team at: [monitoring@eosc.eu](mailto:monitoring@eosc.eu)