



**EUROPEAN OPEN  
SCIENCE CLOUD**

## **Skills and Competences in the EOSC context**

EOSC tripartite, Montpellier, June 14, 2023

Joanna Janik (GRICAD)

# Agenda

1. Task Force Data Stewardship Curricula and Career Paths
2. Skills4 EOSC
3. What happens in France?

# 1. Task Force Data Stewardship Curricula and Career Paths

# Task Forces topics

## Implementation of EOSC

- Rules of Participation compliance monitoring
- PID policy and implementation
- Researcher engagement and adoption

## Technical challenges on EOSC

- Technical interoperability of data and services
- Infrastructure for quality research software
- AAI Architecture

## Metadata and data quality

- Semantic interoperability
- FAIR metrics and data quality

## Research careers and curricula

### Data stewardship curricula and career paths

Research careers, recognition and credit  
Upskilling countries to engage in EOSC

## Sustaining EOSC

Defining funding models for EOSC  
Long-term data preservation

<https://www.eosc.eu/news/draft-charters-eosc-association-task-forces-published>

Source: Sarah Jones, 2021, EOSC Advisory Groups & Task Forces

## Organisation

Start date: 11/2021 (M1); End date: 10/2023 (M24)

- Co-chairs: [Ilire Hasani-Mavriqi](#), TU Graz & [Celia van Gelder](#), DTL
- Co-Task leaders (2 per task)
- Members (25)
- Build on previous work
- Aligning: EOSC TF's / RDA Groups



<https://op.europa.eu/s/o9uR>

DOI: 10.2777/59065

## Scope

- Core focus of the TF is on the data steward roles
- Core set of competencies/skills
- Specialisation skills depending on setting
- Recognise overlap with other roles (e.g., Data Curator, EOSC Educator, Data Scientist and even Research Software Engineer)

## Core activities (November 2021-October 2023)

T1: Stakeholder management and dissemination

T2: Definition of a minimal data stewardship curricula

T3: Career paths for Data Stewards and associated roles

T4: Implementation examples using use cases

## 2 main work streams:

### □ **Minimal data stewardship curricula (M1-24)**

Milestone report: Recommendations for Data Stewardship skills, training and curricula with Implementation Examples from European Countries and Universities

### □ **Career paths for Data Stewards and associated roles (M1-24)**

State-of-the-Art Report on Data Stewardship Career Paths

## 2. Skills4EOSC project

‘Skills for the European Open Science commons: creating a training ecosystem for Open and FAIR science’

36 months from 01/09/2022 to 31/08/2025

Skills4EOSC CNRS team:

Mathilde Bernier, Christine Hadrossek et Laurence El Khouri (DDOR CNRS) ; Claire Sowinski et Gabriela Torres-Ramos (INIST CNRS)



“We need an enabling business environment, a **workforce with the right skills** [...]”

2022 State of the Union Address by President von der Leyen, 14 September 2022, Strasbourg



We need skills to put Open  
Science and FAIR into  
practice!

# Open Science

Open science is not the target, is the tool to have a sounder science, more responsive to societal needs



By [Julie Molliver on Unsplash](#)

## FOCUS

Different way of creating science more than disseminating (collaborative, inclusive...)



UNESCO Recommendations on Open Science  
<https://unesdoc.unesco.org/ark:/48223/pf0000379949.locale=en>

By [Julie Molliver on Unsplash](#)

# Skills 4 eosc



44 Participants, 18 Countries



“Key doers” in Open Science in their Country/Region/Domain



2 ESFRI Research Infrastructures



7 millions €, co-funded by European Union and UK Research and Innovation

CNRS DDOR & INIST  
IPSL  
OPERAS  
AMU



## Filling the gaps

- Lack of Open Science and data expertise,
- Lack of a clear definition of data professional profiles and corresponding career paths, and
- Fragmentation in training resources.



Photo by [Randy Laybourne](#) on [Unsplash](#)



# Who?

## Science for Policy



## Institutions



## Research Infrastructures and thematic communities



## Professional Networks

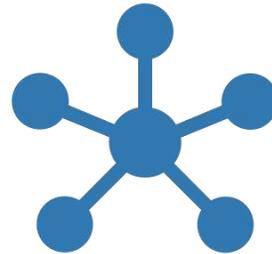


# How?



## ● Propose

A FAIR-by-design methodology for open science teaching and learning



## ● Coordinate

Network of Competence Centers on Open Science and FAIR Data



## ● Enable

Raise competences for an EOSC-skilled European workforce



# Key Concepts

- Competence Centre
- Competence Centre Network
- Minimum Viable Skillset
- Training of Trainers
- Master trainer
- Professional Networks
- User Support Network
- CO-Creation



# Skills4EOSC Competence Centre

Skills4EOSC CC represent a **single point of reference** in a specific Country/Region/Theme to find key **competencies** to enable the practice of **Open Science** with adequate knowledge of standards, applications and tools and best practices for delivering, managing, re-using, sharing and analysing **FAIR** data, as well as other digital research objects.

Competences



People and  
Institutions



Services



Resources



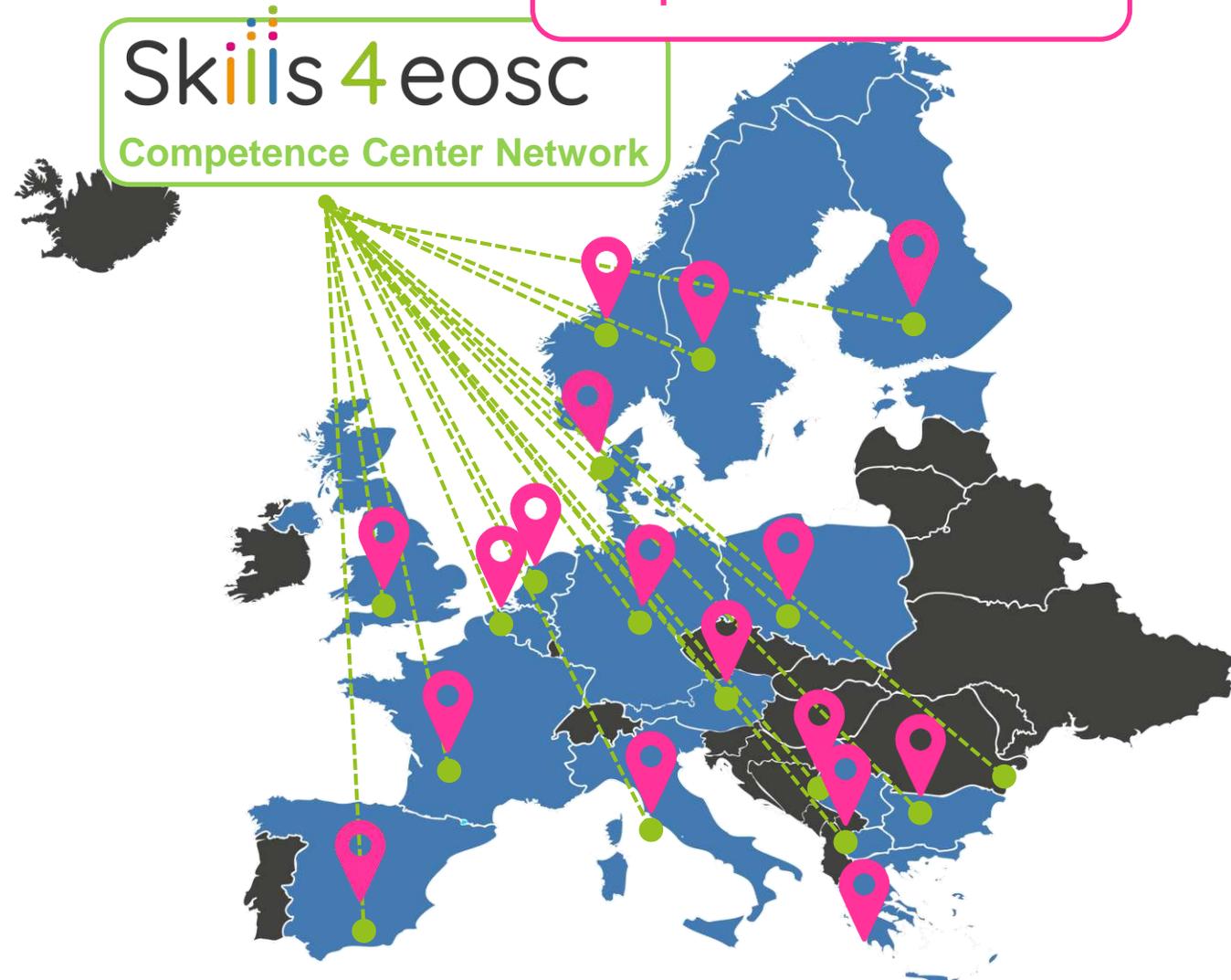
Operational  
Tools



# Skills4EOSC Competence Centre Network

Skills4eosc  
Competence Center Node

- Skills4EOSC aims at building a Coordination Network of Competence Centres for Open Science, FAIR and EOSC in Europe (CCNet).
- The Skills4EOSC CCNet will be based on a lightweight mechanism to align and coordinate the network nodes.
- The nodes are the Skills4EOSC Competence Centres (CCs).



# Competencies



The key element of the Skills4EOSC CC

First release and example published, full package of roles due to end of May 2023

# Minimum Viable Skillset - MVS



Skills4EOSC will define a minimum set of competencies for **each target** in the **Minimum Viable Skillset**

MVS structure and first role draft (policy maker) already published, complete roles due to end of May 2023



# Skills 4 eosc

[info@skills4eosc.eu](mailto:info@skills4eosc.eu)

[www.skills4eosc.eu](http://www.skills4eosc.eu)

<https://twitter.com/Skills4Eosc>

<https://zenodo.org/communities/skills4eosc>

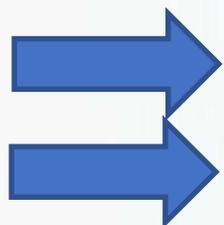
<https://www.linkedin.com/company/skills4eosc/>



# 3. What is and will be french contribution?



- *Study of data-related professions (MESR)*
- Recherche Data Gouv - an ecosystem for sharing and opening research data



Data management cluster generalist services

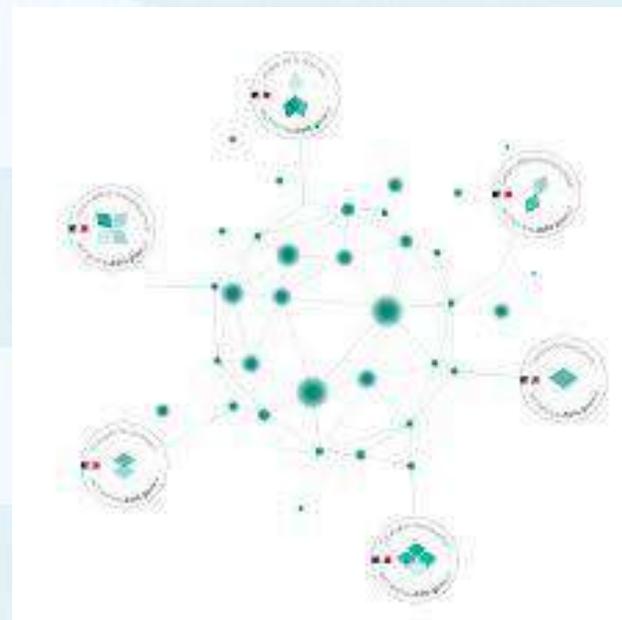
Ressources centers

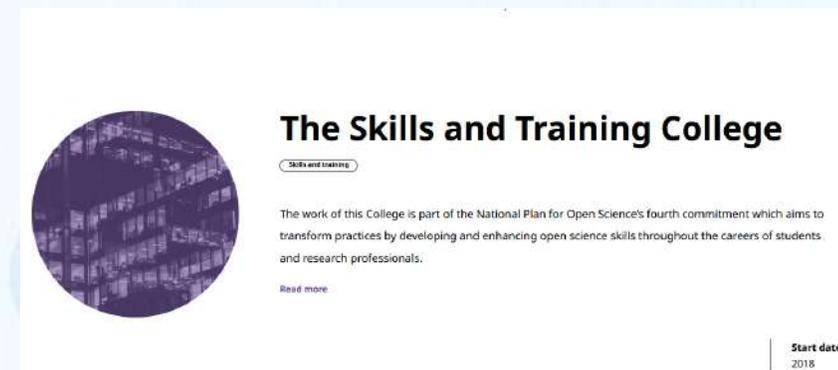


Centre de ressources  
supports pédagogiques, e-formation  
Recherche Data Gouv

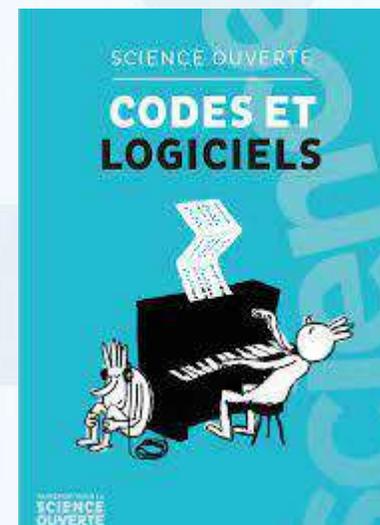


Centre de ressources  
compétences  
Recherche Data Gouv





- The Skills and Training College – Committee for Open Science



# Thank you! Questions?

Special thanks for **Emma Lazzeri – GARR**,  
project coordinator - and the GARR staff!

Lazzeri, GARR

Project Coordi

Notre unité GRICAD est engagée dans la culture de la science ouverte. A cet égard, Joanna JANIK (GRICAD) interviendra le 14 juin sur les thèmes clés et nouveaux projets, lors d'une présentation intitulée « Skills and Competences in the EOSC context ».



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