Skills and Competences in the EOSC context

EOSC tripartite, Montpellier, June 14, 2023

Joanna Janik (GRICAD)
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


Source: Sarah Jones, 2021, EOSC Advisory Groups & Task Forces
Task Force Data Stewardship Curricula and Career Paths
EOSC AG Task force

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

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)

https://op.europa.eu/s/o9uR
DOI: 10.2777/59065
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.

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
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.
Who?

Research Infrastructures and thematic communities

Science for Policy

Institutions

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.
Skills4EOSC Competence Centre Network

• 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).
The key element of the Skills4EOSC CC

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

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
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
• The Skills and Training College – Commitee for Open Science
Thank you!

Questions?

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