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- Skills for the European
- Open Science
- Commons

Overview of the Skills4EOSC outcomes and the development of Competence Centres in support of the EOSC ecosystem.

Sara Di Giorgio, GARR
Skills4EOSC Coordinator

Skills4EOSC Facts & Figures

- 46 **partners**, 18 **countries**
- 2 ESFRI **Research Infrastructure**
- 7 million €
- September 2022 - August 2025
- 10 **Competence Centres** + 37 **Open Science Communities** + 6 **Professional Networks** (more then 660 people involved) + **User Support Network** (more then 100 people involved)
- 18 **Learning paths** and 40 courses available on the Learning Platform https://learning.skills4eosc.eu/
- 1500+ **Participants** in the Train the Trainers Courses

Skills4EOSC Main Objective

Addressing Critical Gaps in Open Science Competencies

Skills4EOSC directly tackles the three key gaps identified in the EOSC Strategic Research and Innovation Agenda (SRIA):

1° **FILLING THE OPEN SCIENCE AND DATA EXPERTISE GAP**

By developing harmonized curricula and integrating Open Science essentials into academic programs, Skills4EOSC is helping build a strong foundation of Open Science knowledge.

2° **DEFINING DATA PROFESSIONAL PROFILES AND CAREER PATHS**

The project is mapping career profiles and defining Minimum Viable Skillsets (MVS) to provide clear pathways for Open Science professionals.

3° **OVERCOMING FRAGMENTATION IN TRAINING RESOURCES**

Skills4EOSC is creating a FAIR-by-Design methodology for learning materials and establishing a network of Competence Centres to foster collaboration and resource sharing.

Open Science Competency Development

OS Gaps	Key outcomes	Researchers	Research Support Staff	Trainers & Educators	Policymakers & Funders	Infrastructure Providers
1° Filling the Open Science & Data Expertise Gap	**Harmonized Curricula and Learning Paths** *Developing standardized Open Science (OS) training for researchers, data professionals, and policymakers across Europe.*	✓	✓	✓	✓	
	Train-the-Trainers (TtT) Courses *Scaling up the number of qualified OS trainers through effective training programs.*	✓	✓	✓	✓	
	Open Science 4 Policy Courses *Delivering specialized training for researchers, policymakers, and civil servants to promote the use of OS in evidence-based policy.*	✓	✓	✓	✓	
2° Defining Data Professional Profiles and Career Paths	**Minimum Viable Skillsets (MVS)** *Defining clear competence requirements for various Open Science roles to foster professional recognition.*	✓	✓	✓	✓	✓
	Professional Networks *Building communities for data stewards, researchers, and other professionals to support continuous learning and exchange of best practices.*	✓	✓	✓		✓
3° Overcoming Fragmentation in Training Resources	**Competence Centre Network** *Establishing a coordinated network of national, regional, and thematic Competence Centres to provide support and harmonize training efforts.*	✓	✓	✓		✓
	FAIR-by-Design Methodology *Ensuring that training resources are Findable, Accessible, Interoperable, and Reusable (FAIR), maximizing their impact.*	✓	✓	✓		✓

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ELEVATE OPEN SCIENCE SKILLS!

Through a unified training ecosystem a pan-european initiative to cultivate open and FAIR science skills for researchers and professionals.

Competences Definition

Skills4EOSC defines a minimum set of competences for each target in the **Minimum Viable Skillset**

Through the **FAIR-by-Design Methodology**, learning materials for Train-the-Trainers programmes are developed

Design learning path & material

Train-the-Trainers will be delivered to a group of Master Trainers to multiply the specific competences inside the Skills4EOSC Consortium

Year 3

Train-the-Trainers delivery

Once **Master Trainers** are equipped with adequate competences, they will organise courses to train target roles in their **country/community**

National courses training target roles

Y3 & onward

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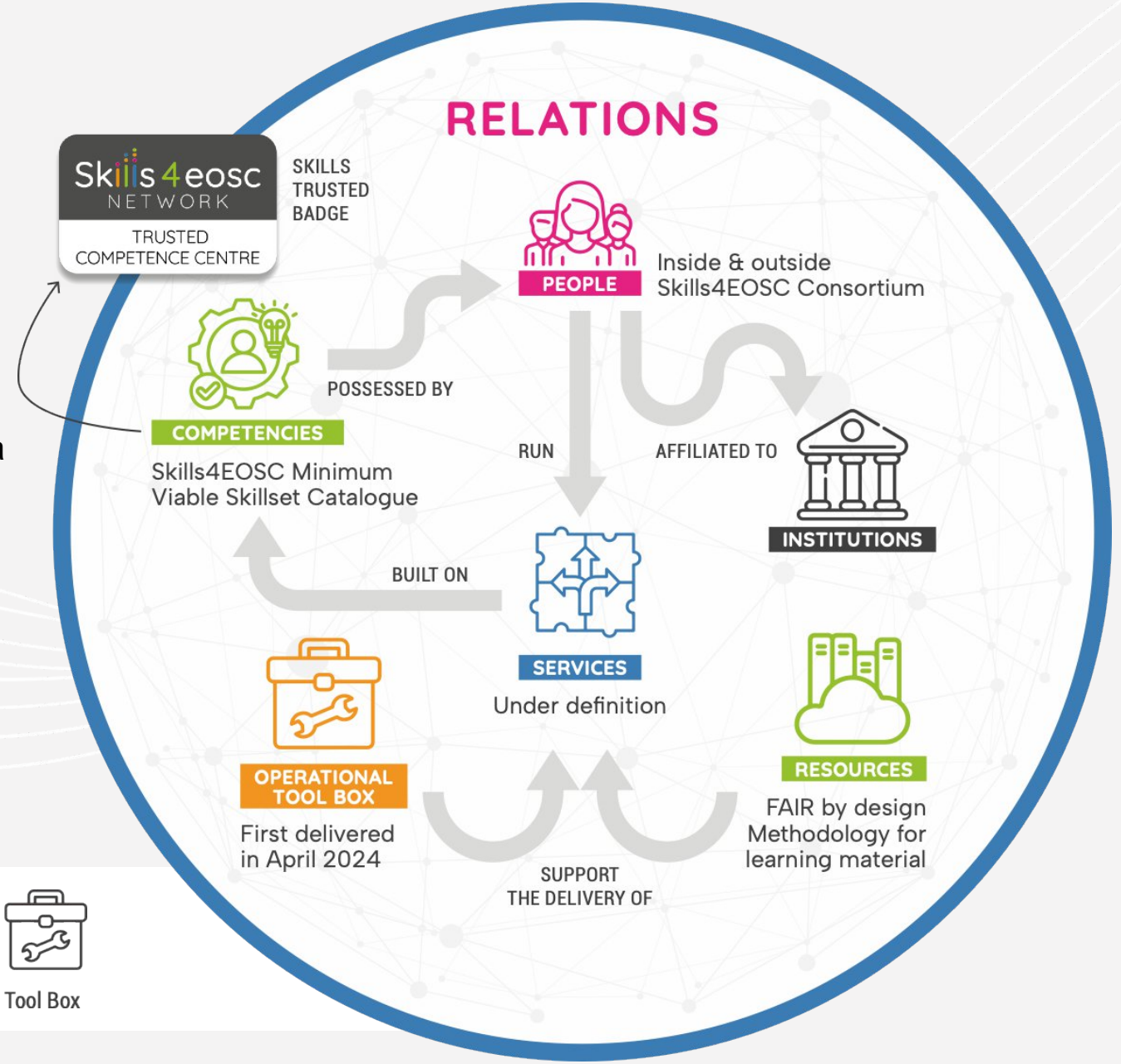
COMPETENCE CENTRE

Skills4EOSC Competence Centre

Skills4EOSC CC represent **a point of reference** in a specific Country/Region/Theme to find **key competences** 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.



Competencies | People & Institutions | Services | Resources | Tool Box

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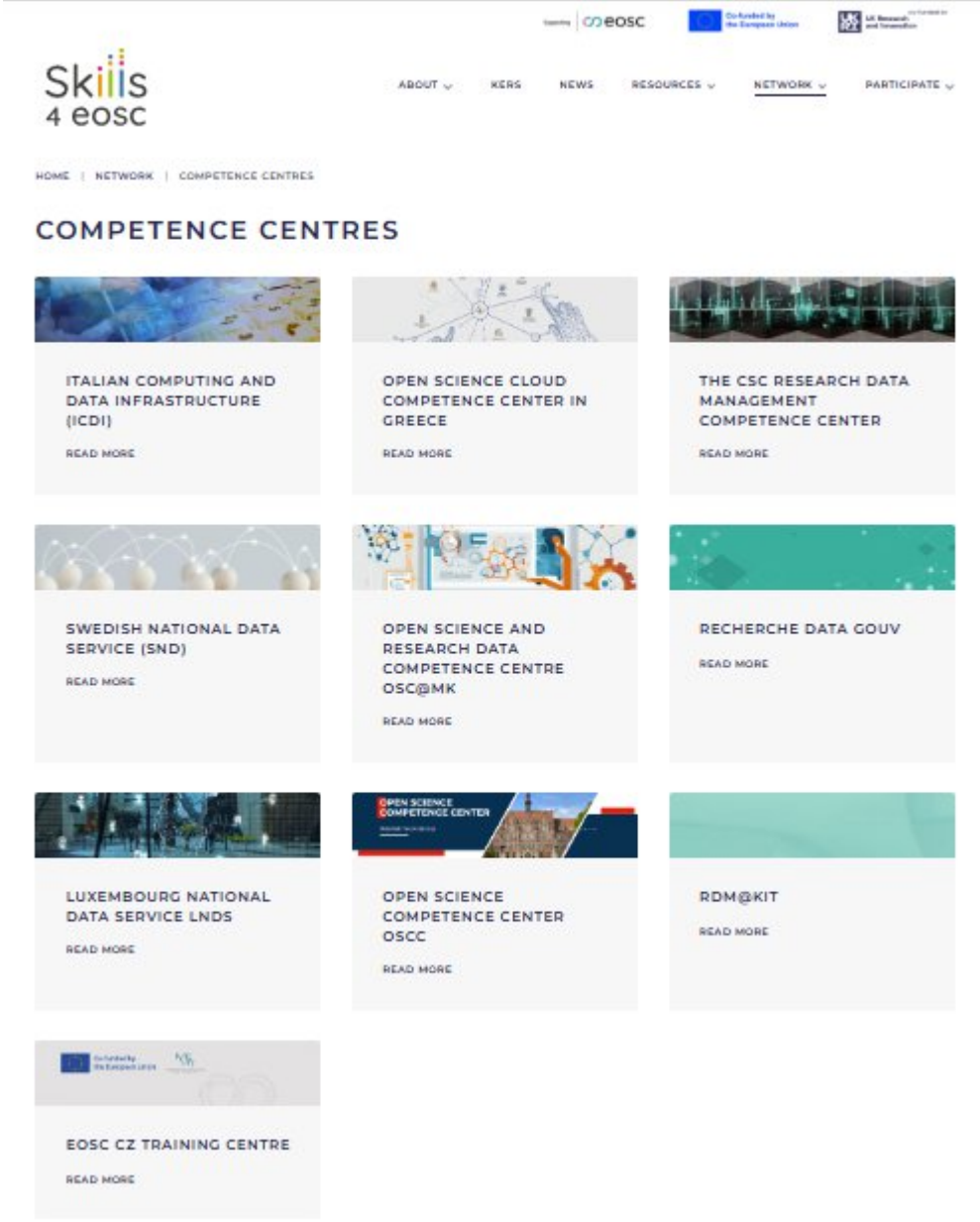
Competence Centre Network

Skills4EOSC Competence Centre Network (CCNet)

- Skills4EOSC aims at building a **Network of Competence Centres** for Open Science, FAIR and EOSC in Europe (CCNet).
- The Skills4EOSC CCNet is based on a lightweight mechanism to align and coordinate the **Network Node**. MoU and LoI are available to join the CCNet.
- The **Nodes** ore the Skills4EOSC **Competence Centres** (CCs).

Skills4EOSC CCs Registry



Added values of the Network

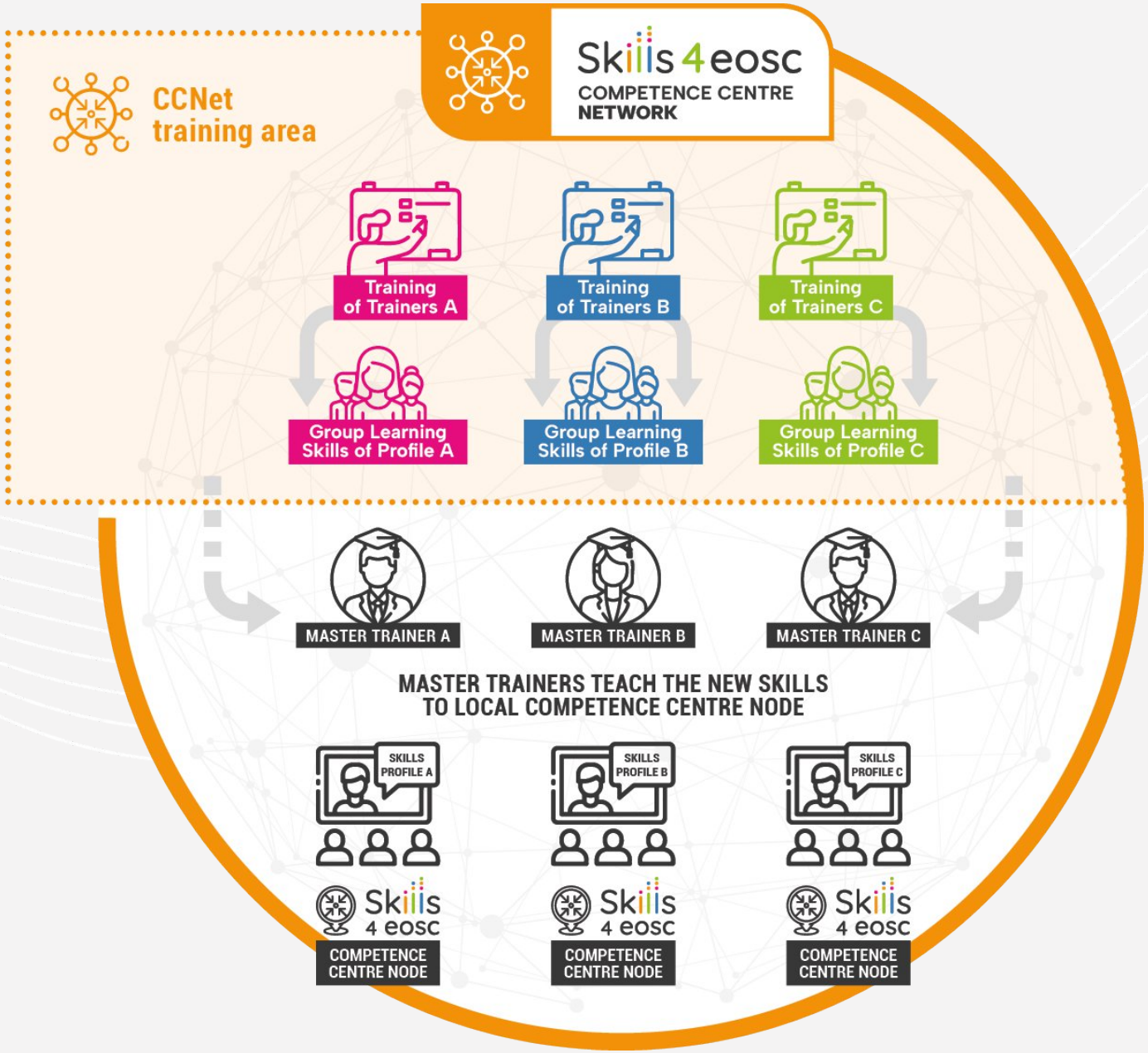
- Collaborative solutions and best practices
- Development of harmonized and certified curricula for diverse Open Science roles
- Accessible learning materials and training
- Coordination and networking
- Influencing National Open Science Policy
- Structured collaboration workflow started

Competence Centres Master Trainers

Skills4EOSC Training Courses

Master Trainers are trained by the Skills4EOSC community through the **Training of Trainers** sessions.

After the Training of Trainers, the Master Trainers commit to **sharing best practices and lessons** learnt with their community trainers.



Skills4EOSC Training Courses

Info & How to Register

Skills4EOSC provides a comprehensive training program for researchers, data stewards, and stakeholders to navigate Open Science and the European Open Science Cloud (EOSC). Utilizing a Train-the-Trainer model, certified trainers are recognized as Master Trainers, ensuring consistent, high-quality training delivery.

General Courses | Science4Policy | Open Science Ready Institutions | Thematic Open Science

GENERAL	IMPLEMENTING FAIR-BY-DESIGN METHODOLOGY
	YAICOS (YET ANOTHER INTRODUCTORY COURSE ON OPEN SCIENCE)
SCIENCE4POLICY	OPEN SCIENCE IS THE NEW NORM
	ELSI AND DATA GOVERNANCE
	INTRODUCTION TO EVIDENCE-INFORMED DECISION-MAKING
	OPEN SCIENCE STAKEHOLDERS AND COLLABORATION STRATEGIES
	EMPOWERING THE FUTURE OF RESEARCH WITH OPEN SCIENCE
	OPEN SCIENCE POLICIES SUPPORT OPEN SCIENCE PRACTICES
	IMPLEMENTING OPEN SCIENCE POLICIES

OPEN SCIENCE READY INSTITUTIONS	OPEN LICENCES FOR DATA SOFTWARE AND CODE
	LEARNING PATH FOR ELSI PROFESSIONALS: ELSI PERSPECTIVES IN OPEN SCIENCE
	LEARNING PATH FOR (DATA) LIBRARIANS: TECHNICAL SKILLS ARE THE BRIDGE TO REPRODUCIBLE RESEARCH
	TEACHING OPEN SCIENCE AND RESEARCH DATA MANAGEMENT FOR UNDERGRADUATES
	SHAPING OPEN SCIENCE CHAMPIONS: A TRAIN-THE-TRAINERS COURSE FOR EDUCATORS OF PHD CANDIDATES
THEMATIC OPEN SCIENCE	SSH RESEARCHERS AND OS
	THE RESEARCH COMMUNITY IN SOLID EARTH SCIENCES
	OPEN SCIENCE FOR EARLY CAREER RESEARCHERS IN CLIMATE CHANGE
	OPEN SCIENCE SKILLS FOR DIGITAL COLLECTIONS CURATORS

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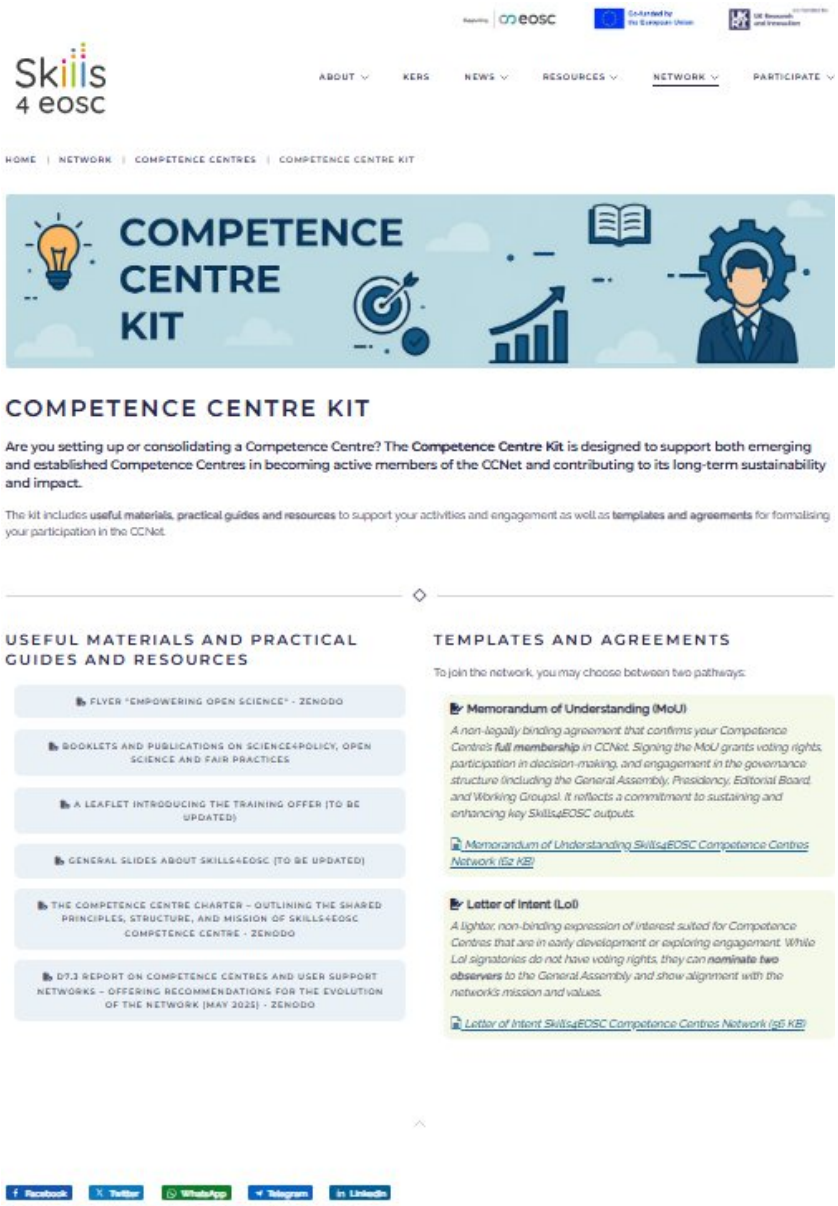
Competence Centre Kit

The **Competence Centre Kit** is a one-stop page where Competence Centres can easily find and reuse key resources developed by Skills4EOSC.

It includes:

- Guidelines on Minimum Viable Skillsets (MVS) and FAIR-by-Design training methodologies
- Publications and reports
- Info about Courses and learning paths
- Ready-to-use presentation slides and outreach material
- Templates for the Memorandum of Understanding (MoU) and Letter of Intent (LoI) to join the CC Network

Everything is designed to be easily adaptable and reusable in national or thematic contexts.



Testimonials & Champions

“The project has done an excellent job in strengthening the culture of Open Science training, both through hands-on activities such as Train-the-Trainer courses and the production of high-quality learning materials.

In my view, the real added value lies in the project’s ability to provide useful and accessible tools for researchers, trainers, and professionals—both within research institutions and at the European level.

Skills4EOSC has made a concrete contribution to building cross-cutting skills and promoting a collaborative approach to training.”

Daniele Bailo – EPOS-ERIC IT Officer, INGV

Skills4EOSC: Just the Beginning of a Growing Community

- How can we ensure long-term sustainability of the Competence Centres?
- Which collaboration models are most effective at national and European levels?
- How can we engage new stakeholders – universities, research institutes, policy-makers – to maximise the impact of Open Science training?

💬 Let's open the discussion.

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Skills4EOSC has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement No. 101058527 and from UK Research and Innovation (UKRI) under the UK Government's Horizon Europe funding guarantee, Grant No. 10040140

Thank you!

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