



- Skills for the European
- Open Science
- Commons

Open Science in Action: Building Skills,  
Crafting FAIR Resources, and  
Recognizing Achievement,  
Skills4EOSC

Dominique Green  
WP2 Leader  
Digital Curation Centre



(with thanks to Angus Whyte, DCC & Sara Di Giorgio,  
GARR)

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Dominique Green, Digital Curation Centre  
Dominique.green@ed.ac.uk

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# Key Concepts

- Co-Creation
- Minimum Viable Skillset
- FAIR-by-design methodology for learning material
- Training of Trainers
- Professional Networks
- Harmonising learning curricula
- Competence Centre Network



[Silas Köhler](#) on [Unsplash](#)

# Skills4EOSC's main objective

Advance Open Science skills by unifying the current training landscape into a common and trusted pan-European ecosystem, closing the three gaps identified in the EOSC **Strategic Research and Innovation Agenda** about Open Science competencies:

- 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.



# EOSC Strategic Research & Innovation Agenda

## SRIA Priorities

**Priority 1:** Developing the **next generation** of Open Science and data **professionals**

**Priority 2:** Bridging the education gap: **coordinating and aligning curricula** for students and researchers

**Priority 3:** Building a trusted and long-lasting **knowledge hub** of learning materials and related tools

**Priority 4: Influencing** national Open Science **policy for skills** by supporting strategic leaders

## Skills4EOSC contribution



Skills4EOSC Network of Competence Centres



Minimum Viable Skillset defined for different roles acting in the OS context



Training of Trainers and FAIR by design methodology for learning materials



Supporting Professional Networks for lifelong learning



Target Science for Policy interface roles (policy makers, knowledge/honest brokers, civil servants)



## WP1 - Project Management

### MAPPING&METHODOLOGY

**WP2 - OS career profiles, skillsets and material - landscaping, certification and QA**

- Mapping skills Vs profiles
- Methodology for FAIR material
- Schemes for the certification/accreditation of acquired competences
- Co-creation and monitoring

### UPSKILLING

#### WP3 OS training for evidence-based policy

- paths for civil servants, policy makers
- empower researchers to communicate with decisionmakers

#### WP4 Curricula and career paths

- Academic paths (undergraduate, postgraduate, PHD, postdoc specialization)
- Structured training paths for data professionals

#### WP5 Thematic Training for RI professionals and communities

- RI professionals
- Infrastructure professionals
- Research communities: SSH, Solid Hearth, Climate change, Museums
- Legal & Ethics professionals

#### WP6 Peer Networks

- Peer Networks for professionals
- Thematic Peer Networks

### ACADEMIC PATHS

### PROFESSIONAL TRAINING

### INFORMAL LEARNING

### ENGAGEMENT

#### WP8 Synergies, Engagement comms advocacy

- Promoting Outputs
- Furthering activities at the national/regional level
- Gaining support
- Creating sustainability for national initiatives

## WP7: Competence centres and user support network

coordination and harmonisation - platforms & tools - exchange of competences - sustainability



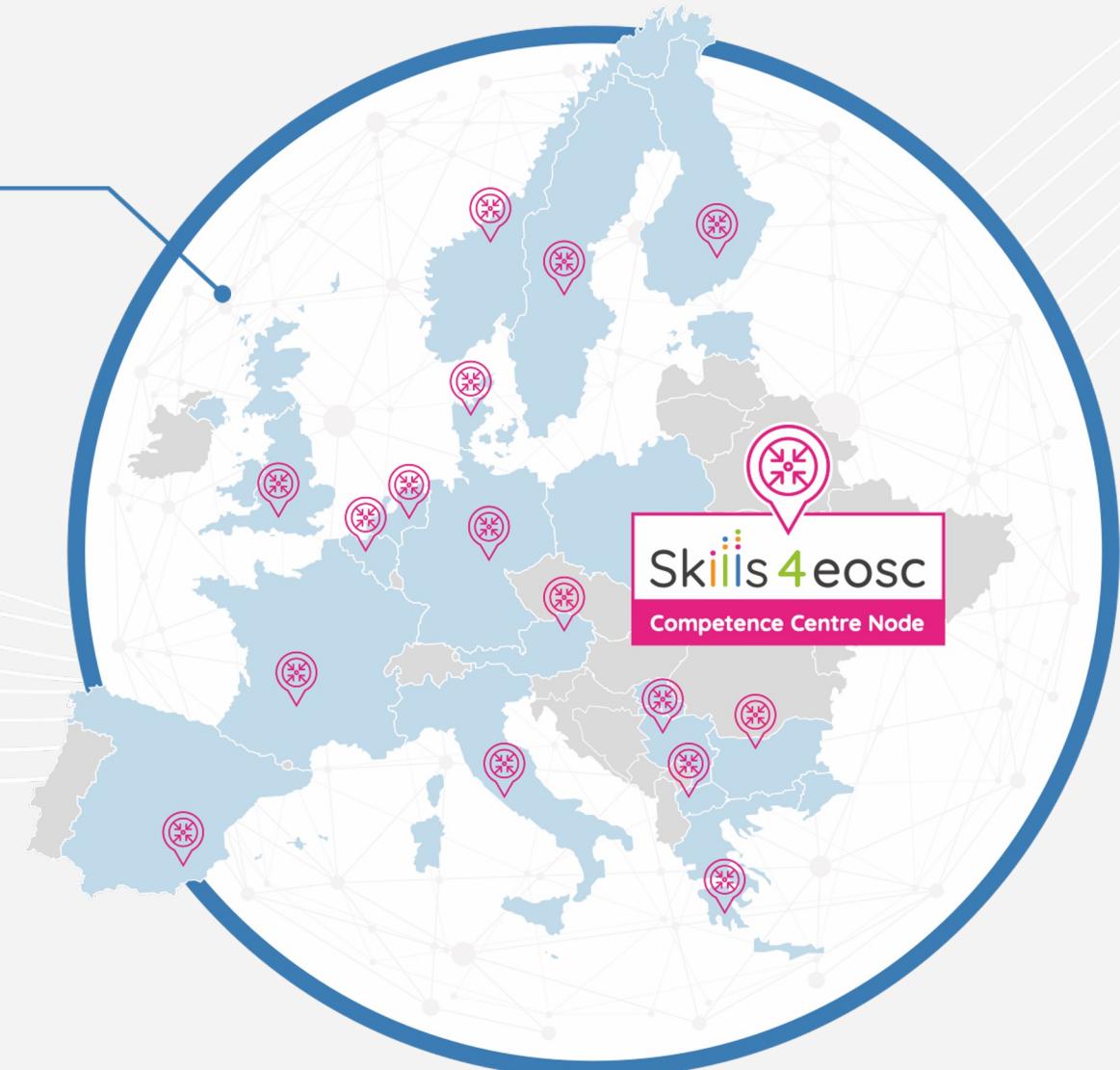
Competence Centre Network

## Skills4EOSC Competence Centre Network (CCNet)

**i** Skills4EOSC aims at building a **Network of Competence Centres** for Open Science, FAIR and EOSC in Europe (CCNet).

**i** **25 June 2024** Public Lunch of the CCNet  
**8 Competence Centres** are part of the Network (target KPI: 10)  
**Ongoing discussion** wth other 10 CC

**i** The CCNet is well recognised in the EOSC Ecosystem and beyond



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# Skills4EOSC Competence Centre

Provide **a point of reference** in a specific Country, Region, or Theme for key **competences** that enable **Open Science** to be practiced 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



<https://www.skills4eosc.eu/network>



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## Skills4EOSC Competence Centre

**i** 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



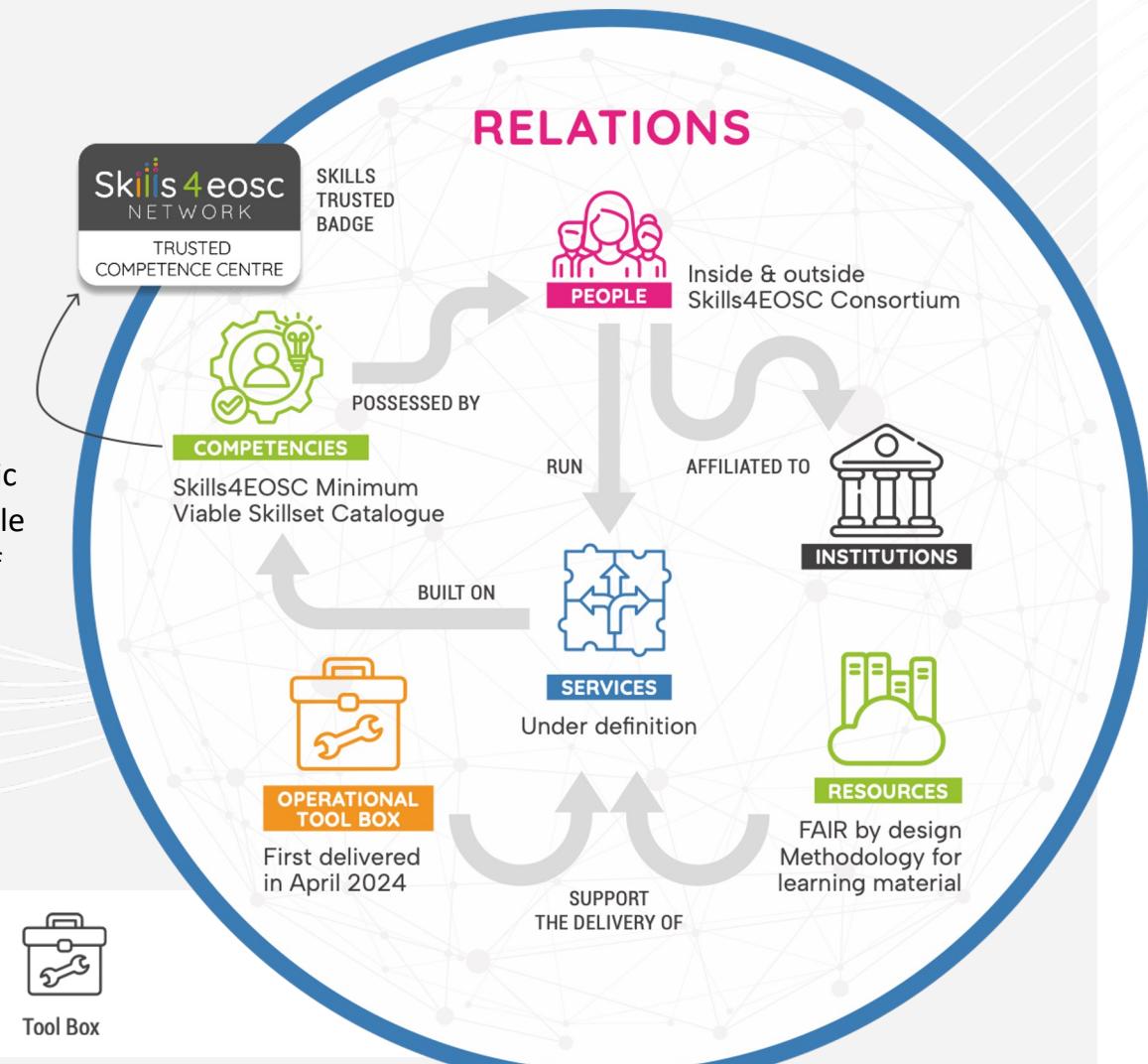
Services



Resources



Tool Box



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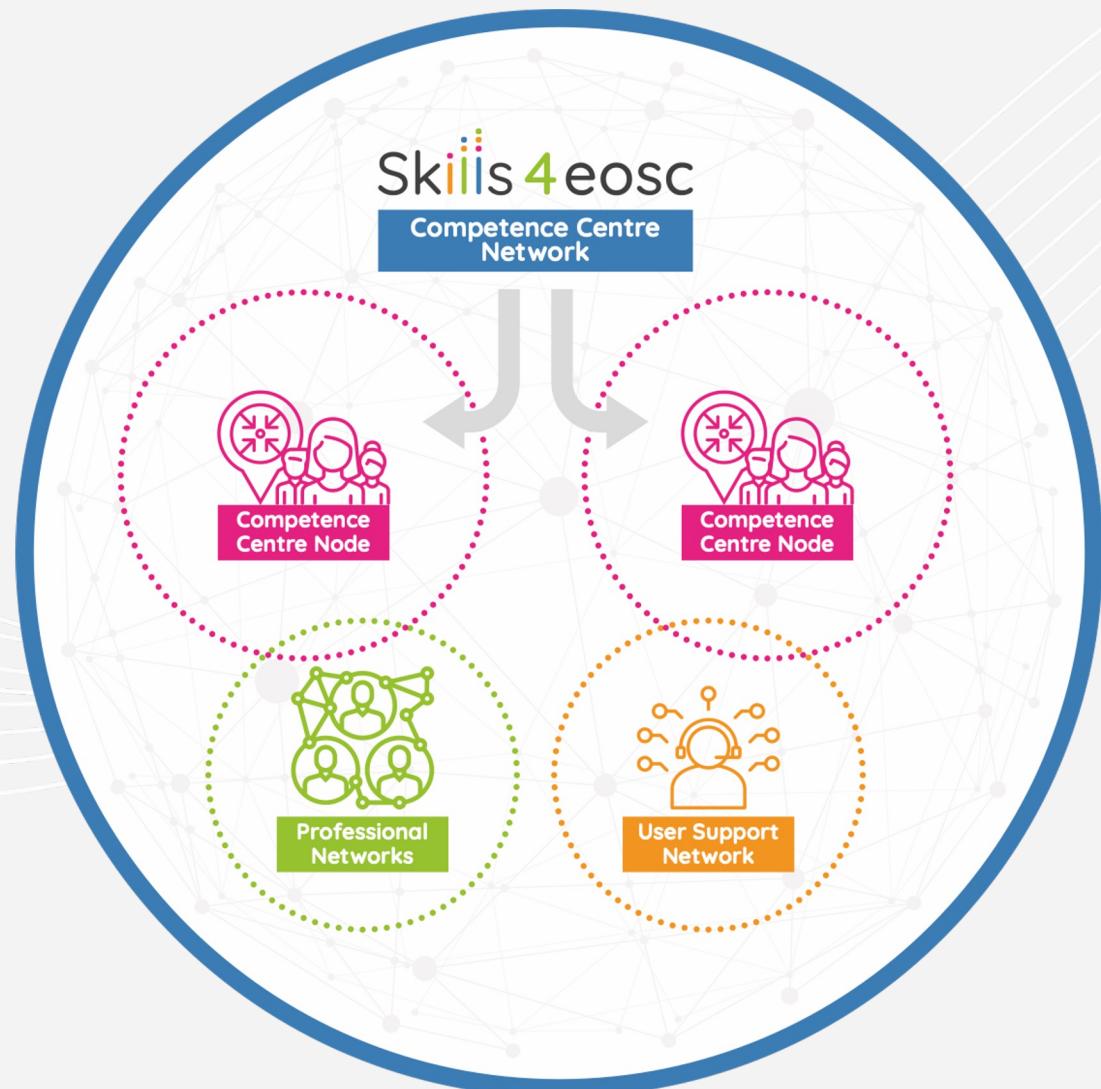
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## Link with Local Network

**i** Skills4EOSC Competence Centres can be built involving **local members** that are not part of the Consortium.

**13 Local Networks** lauched in 11 countries  
(target KPI 7 Networks in 7 countries)

**10 User Support Networks** engaged



# Skills4EOSC CCs Registry



The Skills4EOSC Competence Centres Network is a coordinated network of Competence Centres across Europe that provides key competencies to enable the practice of Open Science and EOSC. These Competence Centres serve as a single point of reference in their respective countries, regions or thematic domains for finding training programmes and materials, best practices and tools for managing, reusing, sharing and analysing FAIR data and other digital research objects. As part of our commitment to promoting EOSC and Open Science, Skills4EOSC provides each CC with a Training of Trainers programme targeting different profiles, ranging from policymakers to data scientists, researchers to professionals, and legal and ethical advisors, on a variety of topics and domains such as Ethical, Legal, and Social Issues (ELSI) aspects, RDM workflows in different disciplines, and more.

If you're interested in providing OS training and guidance? Join our network and help advance the practice of Open Science and EOSC in Europe. Contact us to learn more about what we offer and how to get involved.



HOME | NETWORK | COMPETENCE CENTRES

## COMPETENCE CENTRES



ITALIAN COMPUTING AND DATA INFRASTRUCTURE (ICDI)

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OPEN SCIENCE CLOUD COMPETENCE CENTER IN GREECE

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THE CSC RESEARCH DATA MANAGEMENT COMPETENCE CENTER

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SWEDISH NATIONAL DATA SERVICE (SND)

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OPEN SCIENCE AND RESEARCH DATA COMPETENCE CENTRE OSC@MK

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LUXEMBOURG NATIONAL DATA SERVICE LNDS

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# Skills4EOSC Offering to Competence Centres

<b>Harmonised profiles and curricula for the 'EOSC actor'</b>		<b>Minimum Viable Skillset</b> defined for different roles acting in the OS context
<b>FAIR-by-Design methodology</b> to improve accessibility and reusability of learning materials		<b>FAIR by design Handbook</b> and Microlearning path on Github, Courses, Leaflet
<b>Shared Recognition Framework</b> for learning materials, trainer certification, and accreditation		<b>Guidelines</b> including Open Badges and European Digital Credentials
'Train the Trainers' programme tailored to different profiles and research domains		<b>Courses with self-paced and live sessions</b> , learning materials ready to be re-used and adapted



# Skills4EOSC Offering to Competence Centres

Development of professional and user support networks		<b>Starter Kit for the creation of new Network</b> , mapping and harmonisation of existing ones
Guidelines on IT services to foster collaboration and sharing		<b>Best practices</b> and methodologies across CCs to support collaborations and activities
Sustainability strategies of the Competence Centre(s) Network		<b>Action plan</b> to maintain and enlarge the Network
Influencing national Open Science policy for skills by supporting strategic leaders		Target <b>Science for Policy interface roles</b> (policy makers, knowledge/honest brokers, civil servants)
Space for discussing common issues and positions in the EOSC ecosystem		<b>Networking &amp; collaboration</b> on common challenges



## Competences Definition



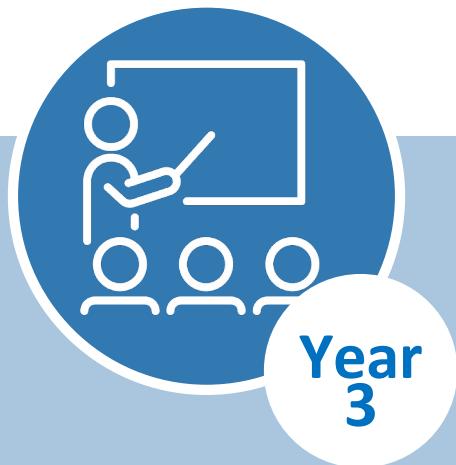
Skills4EOSC defines a minimum set of competences for each target in the **Minimum Viable Skillset**

## Design learning paths & material



Through the **FAIR by design methodology**, learning materials for Training of Trainer programmes are developed

## Training of Trainers delivery



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

## National courses training target roles



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

