



SND – A Skills4EOSC Competence Centre

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Swedish National Data Service (SND)



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Skills4EOSC Main Objective

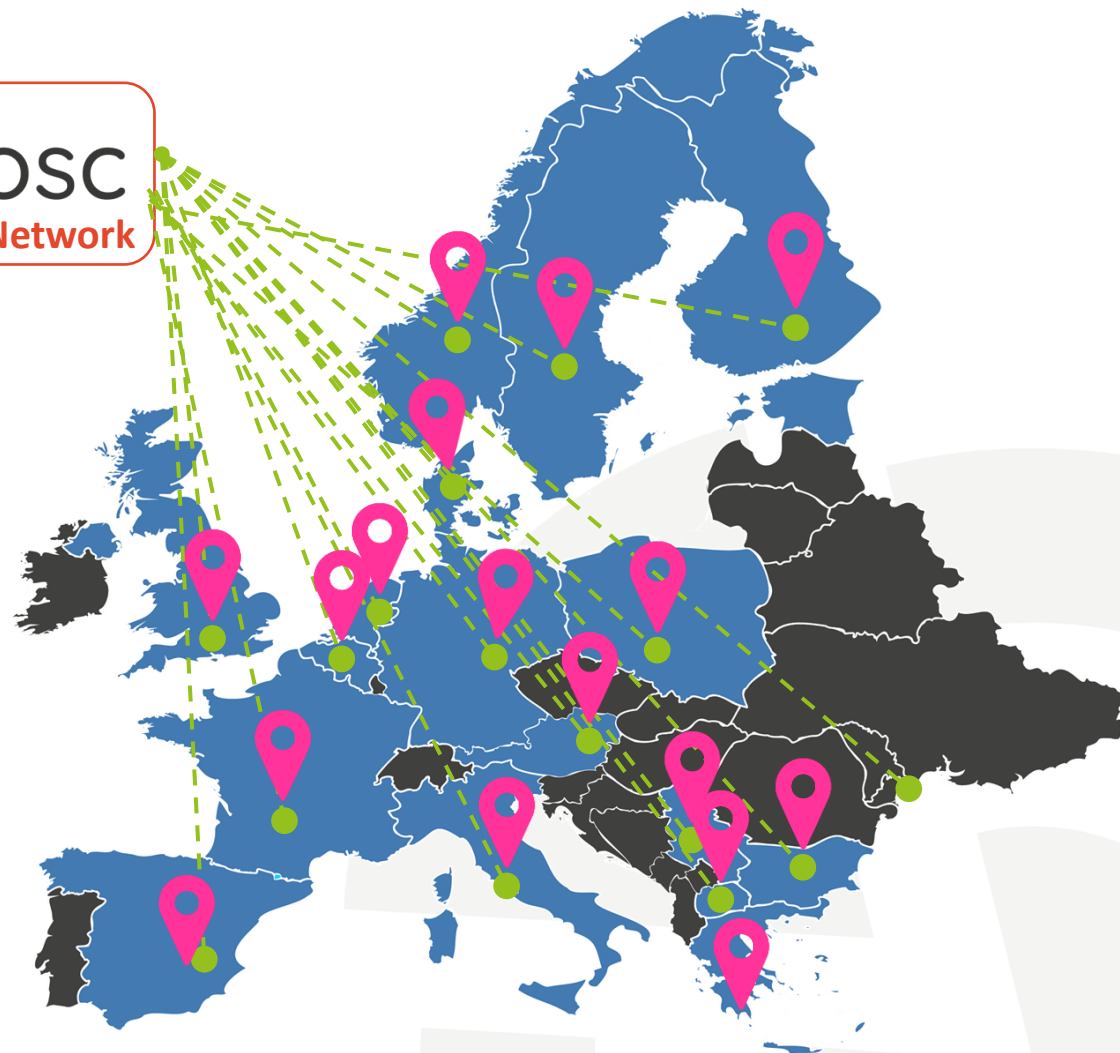
Is to advance Open Science skills by unifying the current training landscape into a common and trusted pan-European ecosystem, closing the three gaps identified in the **EOSC Strategic Research and Innovation Agenda 2021** in relation to Open Science competences:

- 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.

Skills4EOSC Competence Centre Network

Skills4EOSC has built a **Coordination Network of Competence Centres** for Open Science, FAIR, and EOSC in Europe (CCNet).

The Skills4EOSC CCNet employs a lightweight mechanism to align and coordinate the network nodes, which are the Skills4EOSC Competence Centres (CCs).



What do Competence Centres do?

Skills4EOSC CC are dedicated to knowledge organization and transfer in the Open Science, FAIR research output management and EOSC context.

They are associated with **excellence**, **advice**, **training** and **knowledge transfer**, and a **collaborative** approach of different institutions or departments.

open science
rdm fair research output
eosc

knowledge
excellence training
advice
collaboration

1 DEFINE YOUR SCOPE:

Geographic Focus

Will your CC serve a specific country, region?

Thematic Area

e.g., climate research, life sciences.

Target Audience

Who are the primary beneficiaries of your CC's training (researchers, data stewards, policymakers, etc.)?

Specific Activities and Goals

What does your CC intend to accomplish? Example: "Enhance skills in applying FAIR data principles." "Organize webinar courses"

3 ESTABLISH RESOURCES:

Training Materials

Consider the training materials you want to develop or offer (workshops, online modules, tutorials) that cover essential Open Science skills and tools relevant to your target audience.

Infrastructure

Consider the technological infrastructure needed to deliver training (online platforms, collaboration tools) and manage resources (data repository, knowledge base) and other type of services.

2 DEVELOP YOUR EXPERTISE:

Competence Mapping

Identify the key competencies needed for Open Science practices in your chosen domain and audience. This may include knowledge of FAIR data principles, data management tools, and best practices for sharing and analysing research outputs.

Team Building

Assemble a team of experts with experience in Open Science, data management, and relevant scientific disciplines based on your chosen focus.

4 FOSTER PARTNERSHIPS:

Stakeholder Engagement

Connect with universities, research institutions, data centres, and funding agencies in your region/country. Collaborate on training programs and resource development.

Skills4EOSC Network

Join the Skills4EOSC network to share best practices, access support, and collaborate with other CCs across Europe.

5 PROMOTE AND DISSEMINATE:

Develop a Communication Strategy

Create a website or online presence for your CC to showcase your services, training programs, and resources.

Outreach Activities

Organize workshops, participate in conferences, and engage with potential trainees through targeted communication channels

6 REMEMBER:

Focus on FAIR Data

Ensure your training emphasizes the principles of FAIR data (Findable, Accessible, Interoperable, Reusable) to promote open and transparent research practices.

User-Centric Approach

Design your training programs and resources based on the specific needs and skill gaps of your target audience.

Sustainability

Develop a long-term plan to ensure the financial and operational sustainability of your CC. This may involve securing funding from institutions, partnerships, or user fees.

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Competences

- Legal and ethical
- Research data management
- FAIR principles
- Data management plans
- Open Access
- Domain and sector specific
- PID policies
- Metadata standards
- IT and infrastructure
- Trusted Digital Repositories
- Training and outreach

Services offered

- National support on the road to open science
- National research data catalogue
- Development of tools and services
- Training and information
- Collaborations and networks

<https://www.skills4eosc.eu/network/competence-centres/swedish-national-data-service-snd>

International collaborations

SND is an active partner in many international collaborations and projects to create a global research data infrastructure. SND will contribute to the testbed of potential EOSC nodes in the ongoing build-up phase of the EOSC federation



Training of Trainers Programme



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.**




Training of Trainers Programme

Title	Target	Topics
Science for policy	Policy makers, Civil servants, Researchers,	Open Science and Society, Open Science vs. Closed Science, Investing in Open Science, Capacity Building and Training Programs in OS
Learning path on ELSI	Researchers, Data Stewards and data professionals	Implications on research from ELSI , licenses, rights, ownership, tools and workflows, disciplinary differences, challenges and potentials
Open Science Course for Undergraduates	Undergraduate university students	Basic knowledge and skills needed in today's research environment - in their studies and future careers.
Specialized Open Science Courses for Researchers in Social Sciences, Humanities, Solid Earth Science, Climate Change, and Museum Digital Collections	Researchers, PhD students, teachers	Scholarly communication outputs, FAIR and RDM aspects, use of tools and platforms, policies, opportunity of OS, standards
Open Science Communities Incubator	Data Steward Network Coordinators	This Starter Kit provides you the rationale, design, and guidelines to start your own local Open Science Community.



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
- 



Next steps

Currently we focus mostly on:

- Research data management
- Metadata
- Data publishing

We'd like to add to this:

- Overview of the entire open science landscape
- Outreach to broader stakeholder groups (policy makers, funders etc.)
- Training repository using FAIRByDesign methodologies
- Data steward network
- SND work group focusing on Competence Centre issues (senior advisors, training coordinators, S4E team)

Thank you!

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| University of Gothenburg - Chalmers University of Technology - Karolinska Institutet - KTH Royal Institute of Technology - Lund University - Stockholm University - Swedish University of Agricultural Sciences - Umeå University - Uppsala University