

Skills 4 eosC

- Skills for the European
- Open Science
- Commons

Training Support in the Skills4EOSC Competence Centres

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Greek Competence Centre Infoday | July 17, 2024

Supporting

 eosC



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UK Research
and Innovation



Open Science Actors

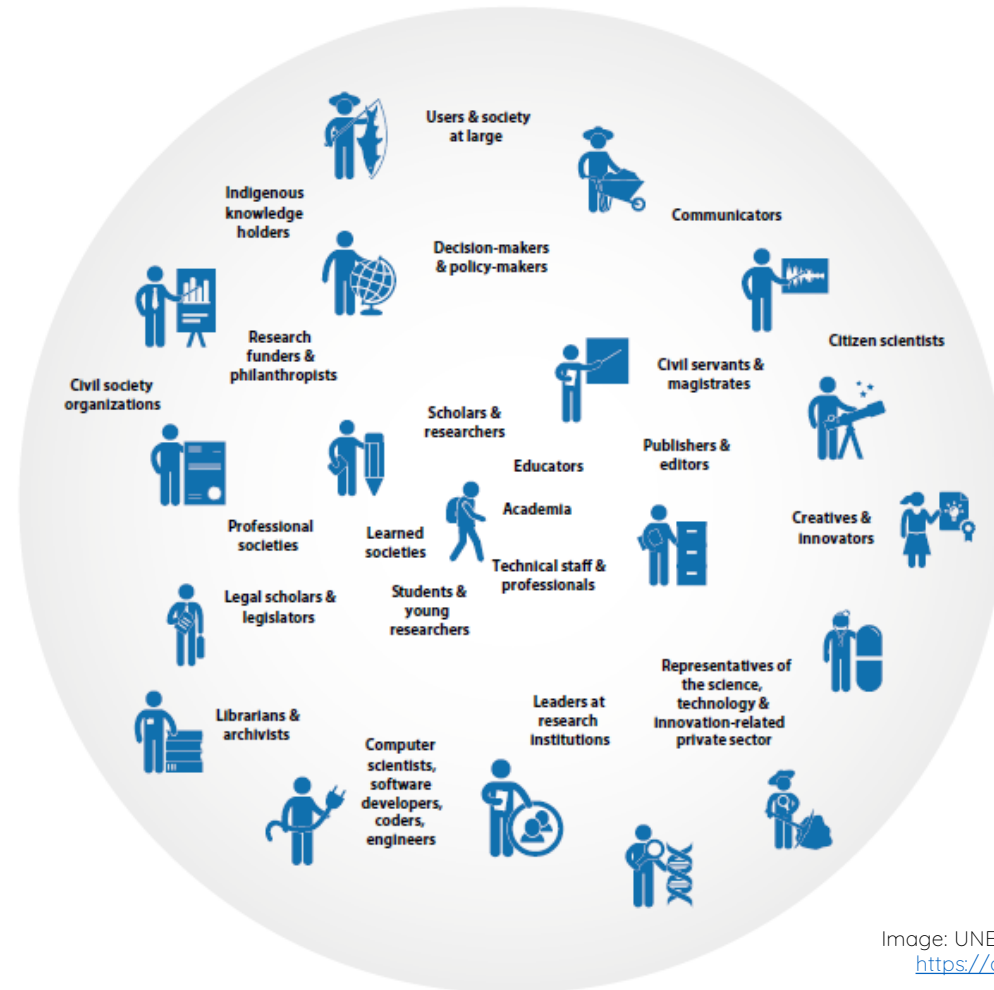


Image: UNESCO - Open Science Outlook 1
<https://doi.org/10.54677/GIIC6829>

Skills4EOSC Targeted Profiles

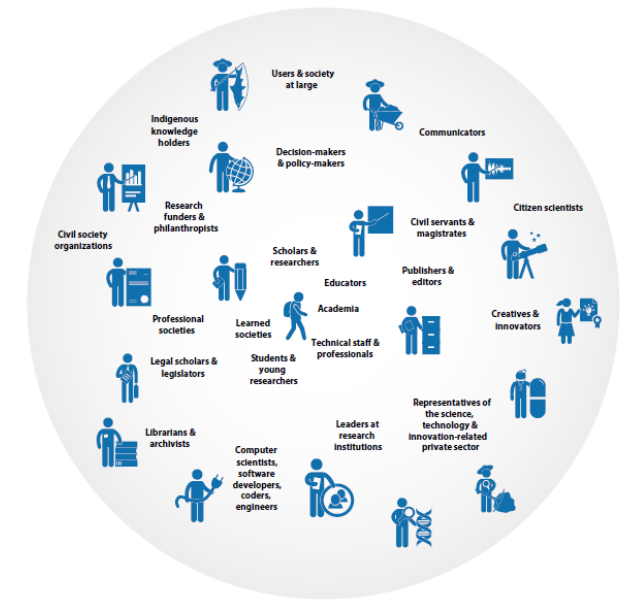


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Policy Makers

Researchers

Undergraduates

Data Stewards

Ethics Advisor

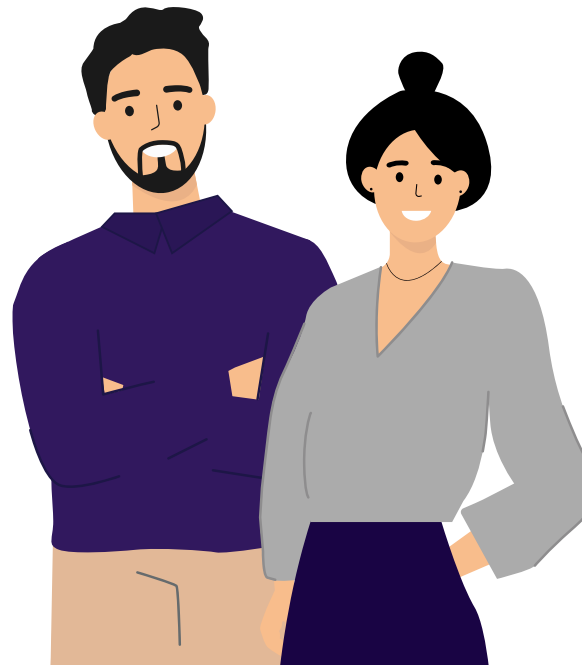
Legal Experts

Civil Servants

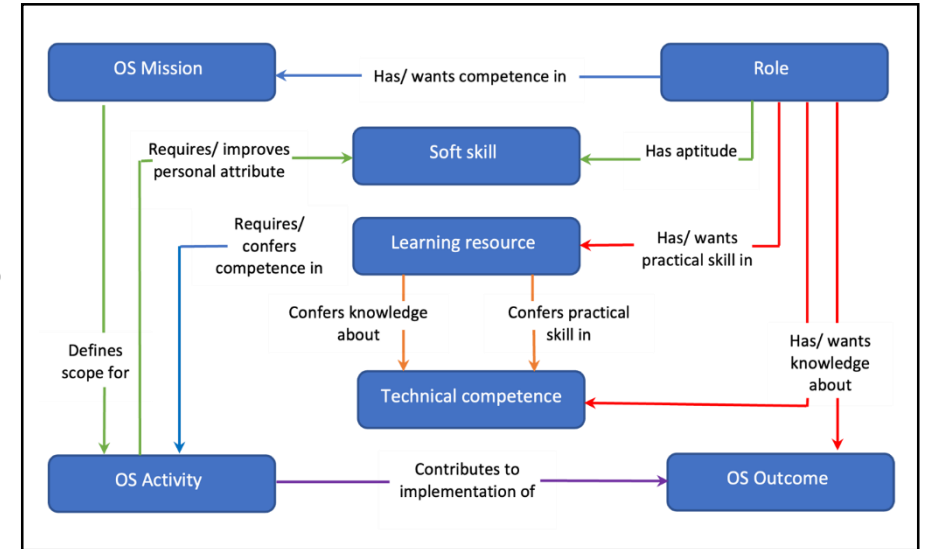
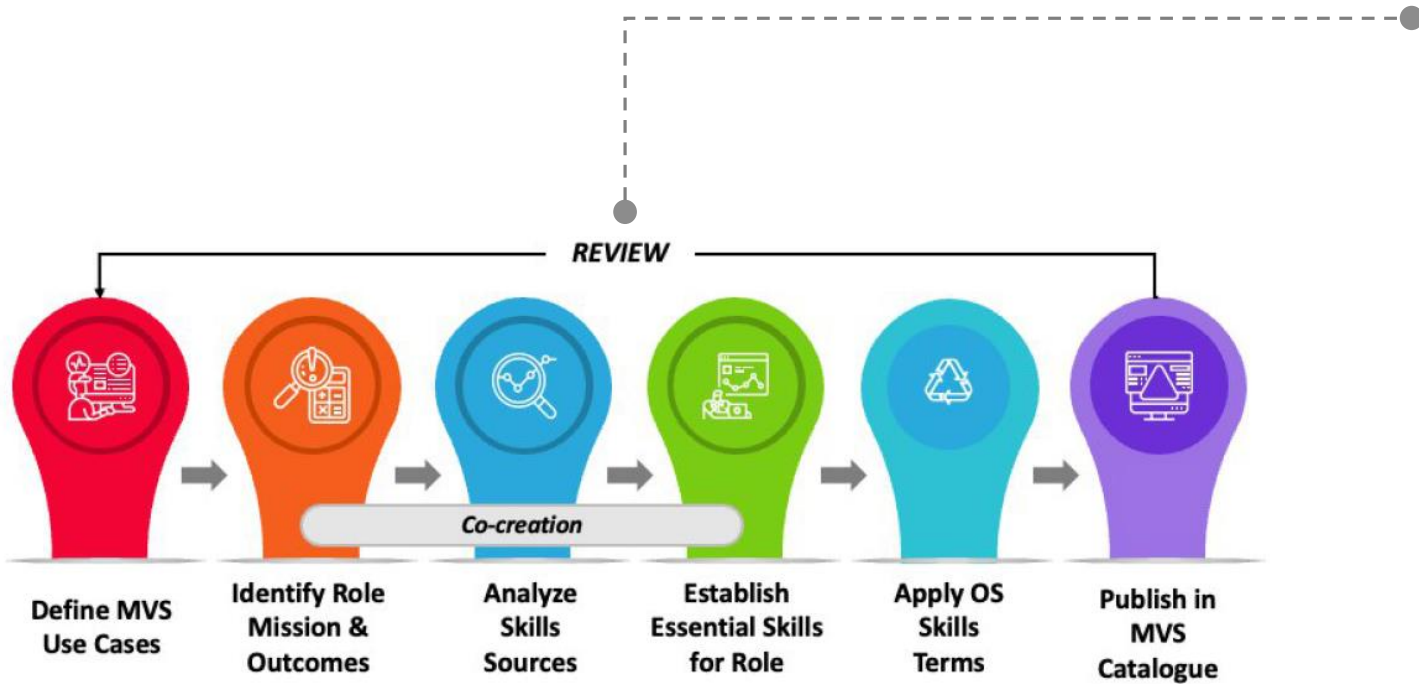
RI Professionals

Masters Students

Honest Brokers



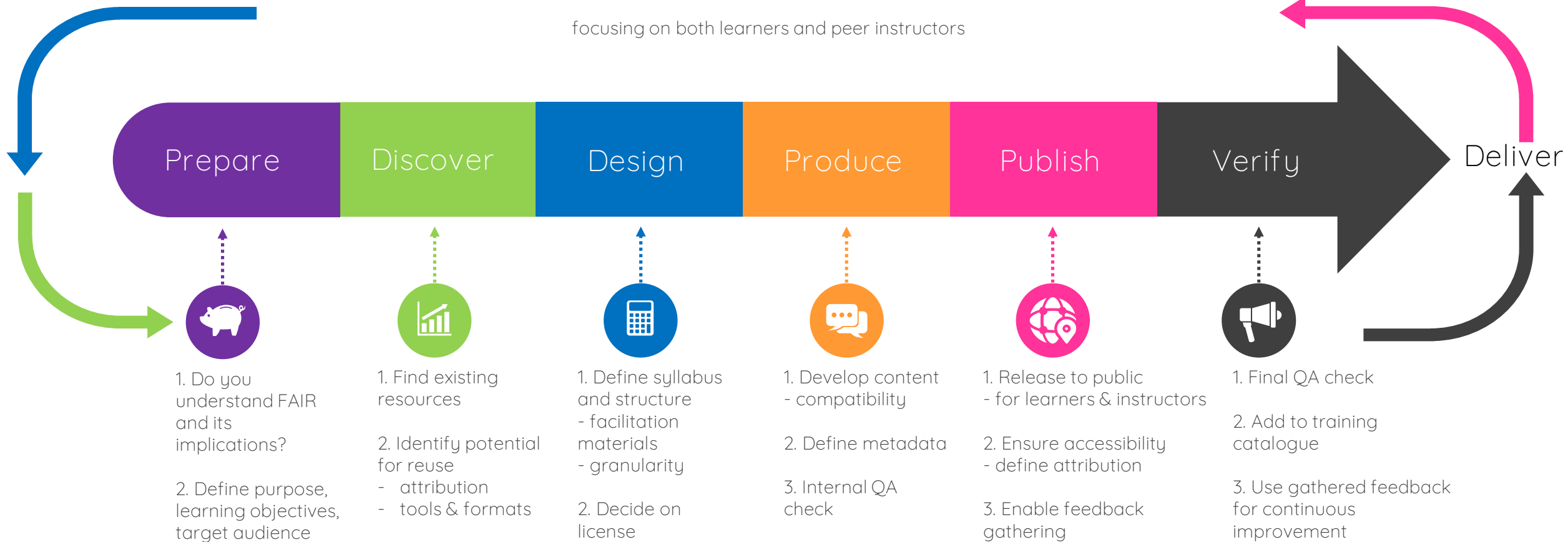
Minimum Viable Skillsets



Training Material Preparation Approach Following the FAIR-by-design Methodology

Backward Instructional Design Empowered with FAIR principles

focusing on both learners and peer instructors



Targeted Trainings for Trainers (ToT)

indicative list

Training Title	Short Description
OS for Evidence-informed Decision Making and Public Administration	This course is targeting trainers for Policy Actors, such as Policy Makers, Civil Servants and Honest Brokers. It includes topics related to Open Science and Evidence Informed Decision Making, from OS Fundamentals and ELSI aspects, to Collaboration Strategies between relevant stakeholders and Policy Making in OS.
Data Stewards and OS	This course is targeting Entry-level Data Stewards (or other professionals who will have data stewardship responsibilities within their organisation such as data curators, data librarians, data managers, RDM coordinators, etc.).
Open Licenses for Data Software and Code	This course provides trainers with the core skills and knowledge to teach the nuances of licensing research outputs. After completing the course, the trainer will be able to reflect on how to tailor the content to their local environment, and have more knowledge about how and when to apply licenses throughout a project.
ELSI professionals and OS	This course is an introduction to the legal drivers and motivations (AI act GDPR, etc), and helps trainers to define the drivers for these laws and what they are aiming for.
OS for Undergraduate Students	This course introduces undergraduate students to Open Science and research data management, providing them with the basic knowledge and skills needed in today's research environment - in their studies and future careers.
SSH Researchers and OS	This course will mainly address two topics: Characteristics, usage and role of scholarly communication outputs in SSH research environment; and FAIR and RDM aspects applied to the full range of scholarly communication outputs (articles, books, annotations, corpora, critical editions, etc.).
OS for Research Community in Solid Earth Sciences	This course is intended as a training course engaging users (mainly researchers, PhD students, but also teachers) who want to see OS and RDM in practice in the context of Solid Earth Science. The training is designed to show how OS and FAIR principles are implemented in the EPOS portal.
OS for Research Community in Climate Change	This course focuses on junior researcher curricula and addresses aspects such as data lifecycle, research data management, Open Science and FAIR principles, data management plan and major infrastructural initiatives in Climate Science.

Trainings for general topics

Training Title	Short Description
Zotero	This short self-paced learning document offers participants within the consortium a guide to use Zotero as a reference manual.
EU Survey	This training provides an introduction to the EU survey tool for use in collecting feedback for S4E outputs.
FAIR-by-Design Learning Materials ToT	Step-by-step training on how to implement the methodology while developing training/learning materials within the Skills4EOSC project, from conceptualisation to feedback gathering
Presentations: Slide Design/ Speech & Delivery/FAIR-by-design	This training provides steps to developing presentations, best practices in applying FAIR by design methodology to S4E presentations, best practices in delivering trainings focused on speech and how to conduct trainings
Tools for interaction	This session will present common tools for interaction in remote training sessions. Specific tools like Mentimeter as well as built in functionalities such as BBB tool will be introduced together with possible usage scenarios within training sessions.
Feedback collection	This session will focus on effective methods and strategies for collecting feedback during training sessions. Participants will learn about different feedback collection techniques and how to utilize feedback to improve the training experience.
Training of Trainers Guide	“How to teach Open Science?” This session will provide trainers with a comprehensive guide on teaching Open Science concepts. Participants will learn about the key principles, methodologies, and resources necessary to effectively train others on Open Science practices.
Training techniques	This session will explore different training techniques commonly used in learning environments. Participants will examine the pros and cons of various techniques, such as Massive Open Online Courses (MOOCs), hands-on exercises, and assessments, and understand how to select and utilize the most appropriate techniques based on learning objectives and audience needs.

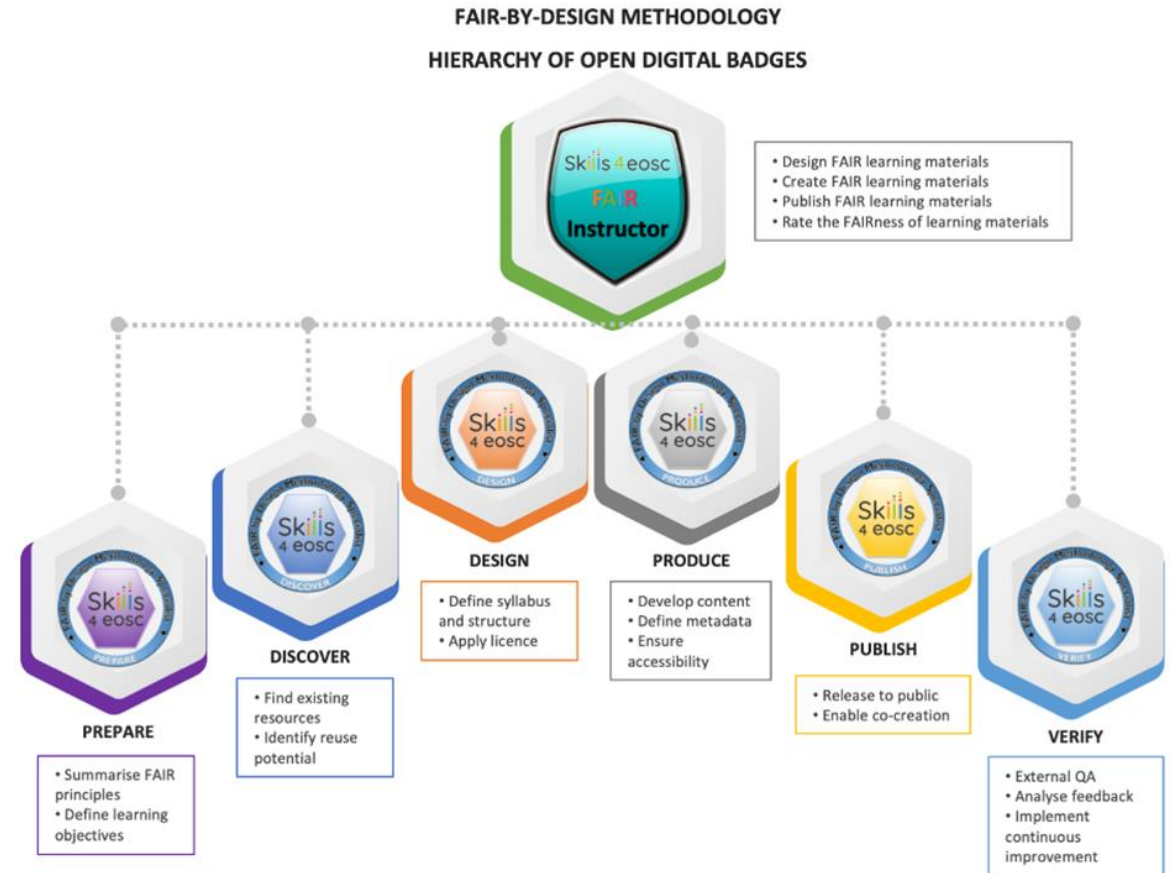
Skills4EOSC Accreditation

After Completing each course and all the relevant activities and assessments, formal accreditation will be provided with a Skills4EOSC Badge.

There will be different levels of accreditation based on each course and completion pre-requisites.



Example: Instructor Badge acquired after completing the entire FAIR-by-design methodology course



Example Curriculum for Policy Actors

- Capacity Building on “Open Science for Evidence-Informed Decision Making and Public Administration” through Tailored Training for trainers and Interactive Webinars (Autumn 2024)
- Access to Additional Resources and Tools



Target Profiles:

- Policy Makers (2 types)
- Civil Servants in Decision Making
- Honest Brokers



Minimum Viable Skillsets

Key Competences (indicative list)



Policy Maker

- Knowledge of OS and its practices, FAIR principles.
- Strategies, frameworks and course of actions to foster and enhance OS.
- Mobilize human and financial resources and key enablers.
- Identify the relevance of OS practices to the policy context of scientific research between evidence and policy context.
- Policy monitoring and evaluation
- Intellectual property rights and non-personal data management
- Ethical principles, frameworks and codes of conduct, legal issues related to personal data governance, data use agreements

Civil Servant

- Good understanding of OS principles and practices, open data, open research and open access
- Support the development of policies and guidelines that promote OS
- Solid understanding of OS research ethics
- Being familiar with technology and tools used to support OS practices
- Managing projects related to OS
- Evaluating the impact of OS practices, recommendations for future improvement
- Good understanding of (personal and non-personal) data management, including data storing, analysis and sharing according to the FAIR and OS principles, regulatory frameworks

Honest Broker

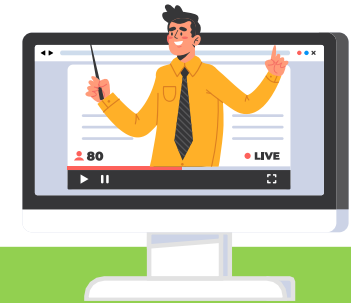
- Being familiar with policy making practices and procedures
- Understanding of open, ethical and responsible research principles
- Managing considerable amount of information related to OS practices
- Searching, retrieving, appraising and synthesizing evidence
- Developing and maintaining network of researchers, policymakers, and other stakeholders and supporting co-creation activities
- Evaluating research findings and identify potential conflicts of interest.
- Tailoring resources to local needs and assessing the context of implementation

Training Content

- 20 main Modules for the 3 profiles, divided into sub-modules and relevant topics
- Covering essential competences and identified soft skills
- Self-paced courses through the Skills4EOSC Learning Platform
- Train of Trainer Webinars
- Instructors notes and related material
- Activities and Assessments
- Skills4EOSC accreditation



Main topics for Training



Main topics	Main topics
Module 1: Open Science is the New Norm	Module 6: Data Governance and Legislative Strategies for FAIR Research
Module 2: Open Science is Essential for Advancing Research and Innovation	Module 7: Open Science and Society
Module 3: Accountability and Transparency in Open Science	Module 8: Open Science vs. Closed Science
Module 4: Legal and Ethical Frameworks and Considerations in Open Science	Module 9: Investing in Open Science
Module 5: Challenges and Opportunities for Open Science in the EU Regulatory Framework	Module 10: Capacity Building and Training Programs in OS



Main topics for Training (2)



Main topics	Main topics
Module 11: Understanding Open Science and Its Stakeholders	Module 16: Policy-making in Open Science
Module 12: Open Science and Evidence-informed Decision Making	Module 17: Open Science policies support Open Science practices
Module 13: Open Science and AI	Module 18: Role of Policy Makers in Supporting Open Science Practices
Module 14: Evidence-informed decision making - outputs and tools	Module 19: Implementing Open Science Policies
Module 15: Collaboration Strategies for Stakeholders	Module 20: Monitoring and Evaluation of Open Science Policies



Additional Material/Resources



- Guidelines and best practices for Honest Brokers Booklet
Link: <https://zenodo.org/records/11475253>
- Science4Policy kit with best practices from European Initiatives related to policy development (Jan 2025)
- Advocacy kit for reaching out to funders and policy makers
Link: <https://www.skills4eosc.eu/resources/advocacy-kit>
- International Workshop “The Practice of Informing Policy Through Evidence” for researchers to increase their impact when engaging with policymakers (Nov 2024)



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Supporting



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Thank you! Questions?

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Open Science Cloud Competence Center – Greece:
<https://www.skills4eosC.eu/network/competence-centres/open-science-cloud-competence-center-in-greece>

Skills4EOSC website: <https://www.skills4eosC.eu>

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