Meeting different stakeholders’ needs for FAIR data training

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“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
Commission kick-starts work on the European Year of Skills

Following the announcement by President Ursula von der Leyen in her 2022 State of the Union address, the Commission has adopted today its proposal to make 2023 the European Year of Skills.

The green and digital transitions are opening up new opportunities for people and the EU economy. Having the relevant skills empowers people to successfully navigate labour market changes and to fully engage in society and democracy. This will ensure that nobody is left behind and the economic recovery as well as the green and digital transitions are socially fair and just. A workforce with the skills that are in demand today, while also ensuring a sustainable workforce.
We need skills to put FAIR into practice!
Meeting the stakeholders’ needs

What do you think is the biggest barrier regarding the adoption of open science practices?

Dr. Adam L. Mahood @adm0n · 19 set
Lack of training/know how. It seems like a lot of people know what they need to know to get the analysis done, but not how to have reproducible and legible scripts in their GitHub repo, set up a doi, find a data repository, etc

V. Protonotarios @vprot · 18 set
In risposta a @open_science_
Potential key stakeholders are not adequately informed about the benefits of open science

Marcel Swart @Marcel_Swart · 18 set
In risposta a @open_science_e @AcademicChatter
Money for APCs. Laziness and ignorance.

Dr. Cody Porter @Cody_N.Porter · 19 set
In risposta a @open_science_e @AcademicChatter
How expensive they are. Academics should not be paying to publish their work

https://twitter.com/_open_science_/status/1571589893595463682?t=dK7ApI0Vp7ACFTXxe8XAA&s=08
Supporting an EOSC-ready digitally skilled workforce:

Researchers can transform how they carry out research and exploit research outputs, leading to better quality and contributing to the Horizon Europe EOSC Partnership.

Horizon Europe call INFRA 2021 EOSC01-01
44 Participants, 18 Countries

“Key doers” in Open Science in their Country/Region/Domain

2 ESFRI Research Infrastructures

7 millions €
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.
FAIR and Open Science also means

Making science and its results accessible

to different actors
(policy makers, civil servants, citizens, private sector, ....)

using adequate language
(mother tongues, differentiating messages, ....)

using the right mean
(social, dedicated events, blog, reports, interviews, ....)
Keeping in mind

**Responsible Research and Innovation**
Scientific research and technological development processes that take into account effects and potential impacts on the environment and society

**Science for policy**
Increase the impact of research results on policy and society at large
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

- Minimum viable skillset
- Train of Trainers
- FAIR-by-design learning materials
- Harmonise curricula and learning paths
- Lifelong learning through professional networks
- Competence Centre Network
Developing paths for different targets...

**Science for policy:** honest brokers, civil servants, policy makers

**Institutions:** undergraduate, PhD, data stewards and professionists, including data librarian and curators, legal and ethical experts

**Research Infrastructures** and **thematic communities:** designing training with and for researchers and professionists

**Professional networks:** lifelong learning through peer networks
... with specific needs

Science for policy: need to inform through evidence, understand the needs of policy makers, consider ethical issues at the science for policy interface

Institutions: need to count on adequate skilled professionals, not only researchers but data experts and support staff, need to train undergraduates and scientists at different career levels

Research Infrastructures and thematic communities: need to tailor training on specific needs to embed FAIR principles in the research workflow

Professional networks: need to be empowered to put into practice lifelong learning through the learn by doing and best practice sharing
Thank you! Questions?

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Links and references

- Skills4EOSC in CORDIS, https://cordis.europa.eu/project/id/101058527

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