Skills4EOSC Induction

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Skills 4 eosc

- Skills for the European
- Open Science
- Commons

Supporting | eosc

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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

Press release | 12 October 2022 | Brussels

Commission kick-starts work on the European Year of Skills

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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

We need skills to put Open Science and FAIR into practice!

Open Science:

'Open Science' stands for the transition to a new, more open and participatory way of **conducting, publishing and evaluating** scholarly research. Central to this concept is the goal of increasing cooperation and transparency in all research stages. This is achieved, among other ways, by sharing research data, publications, tools and results **as early and open as possible.**

Open Science leads to more robust scientific results, to more efficient research and (faster) access to scientific results for everyone. This results in turn in **greater societal and economic impact.**

Open Science

Open science is not the target, is the tool to have a sounder science, more responsive to societal needs

Focus

Different way of creating science more than disseminating (collaborative, inclusive...)

FAIR principles

Findable

Others can easily find your data

Accessible

It is clear who, when and how can access your data (does not mean open)

Interoperable

Your data can be integrated with other data and/or they can be easily used and read by machines.

Reusable

Your data can be reused by others in new research

Martínez-Lavanchy, P.M., Hüser, F.J., Buss, M.C.H., Andersen, J.J., Begtrup, J.W. (2019). 'FAIR Principles'. In: Holmstrand, K.F., den Boer, S.P.A., Vlachos, E., Martínez-Lavanchy, P.M., Hansen, K.K. (Eds.), Research Data Management (eLearning course). doi: 10.11581 / dtu: 00000049, Link to the video: https://vidensportal.deic.dk/RDMelearn

Meeting the stakeholders' needs

Open Science @_open_science_

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

Traduci il Tweet

10:00 PM · 18 set 2022 · Twitter Web App

10 Retweet   **4** Tweet di citazione   **20** Mi piace

Dr. Adam L. Mahood 🌻 @adm0n · 19 set

In risposta a @_open_science_

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

💬   ↺ 1   ❤ 5   ⬆

V. Protonotarios @vprot · 18 set

In risposta a @_open_science_

Potential key stakeholders are not adequately informed about the benefits of open science

💬   ↺ 2   ❤ 5   ⬆

Marcel Swart @Marcel_Swart · 18 set

In risposta a @_open_science_ e @AcademicChatter

Money for APCs.
Laziness and ignorance.

💬   ↺   ♡ 2   ⬆

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

💬   ↺   ♡ 9   ⬆

https://twitter.com/_open_science_/status/1571589893595463682?t=dK7ApIFOVp7ACFTXxeBXAA&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
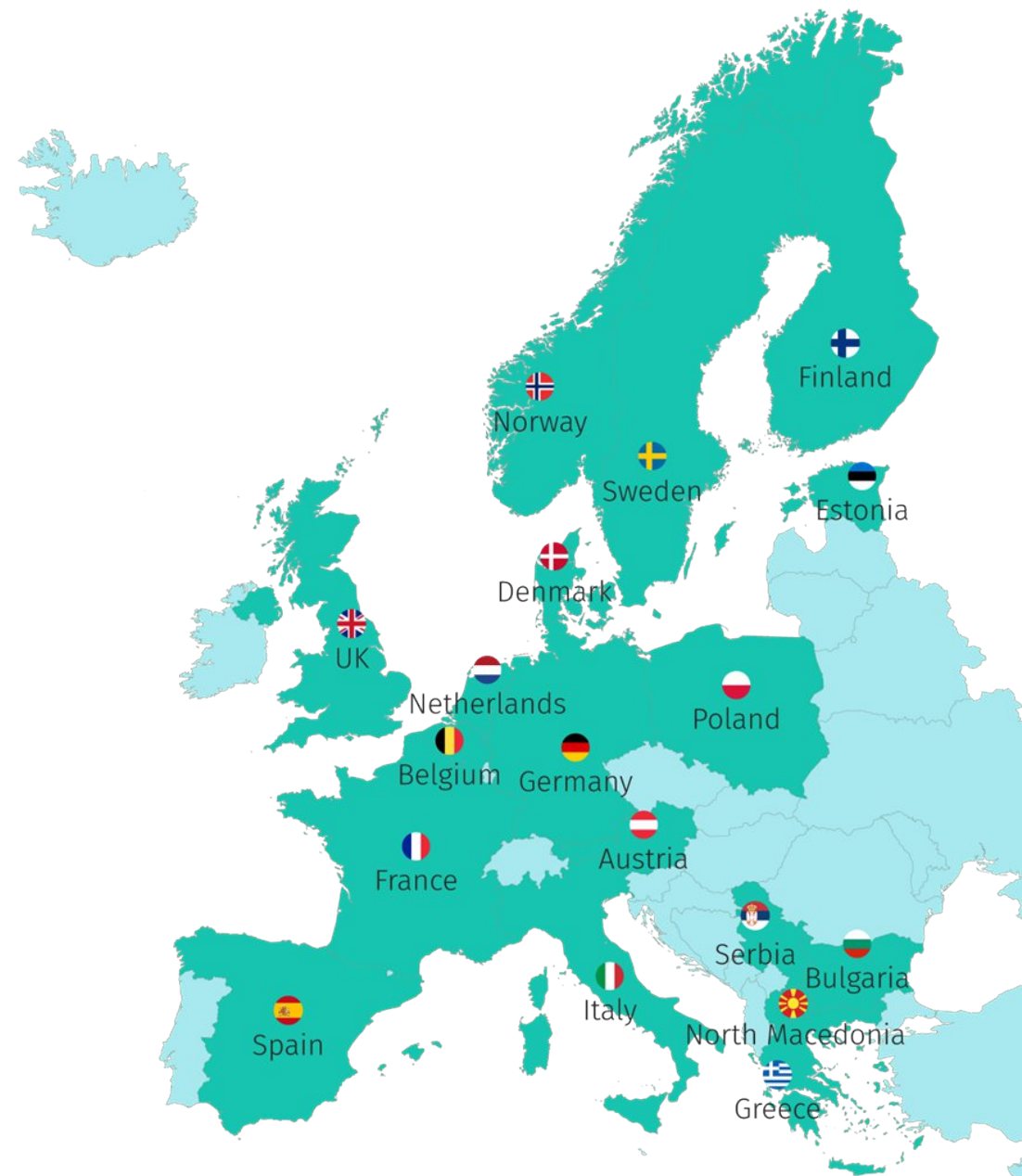
44 **Participants**, 18 **Countries**

"**Key doers**" in Open Science in their Country/Region/Domain

2 ESFRI Research Infrastructures

7 millions €, co-funded by European Union and UK Research and Innovation

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.

Photo by Randy Laybourne on Unsplash

< name & contact - other presentation info>

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FAIR and Open Science also means

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
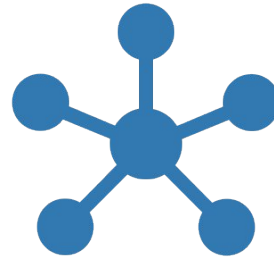
Science for policy

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

How?

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...

Photo by George Bakos on Unsplash

Science for Policy

- honest brokers,
- civil servants,
- policy makers

need to:

- inform through evidence,
- understand the needs of policy makers,
- consider ethical issues at the science for policy interface

Institutions

- undergraduate,

- PhD, researchers

- data stewards and professionists, including data librarian and curators, legal and ethical experts

need to:

- count on adequate skilled professionists,

- data experts and support staff,

- train undergraduates and scientists at different career levels

Professional Networks

- lifelong learning through peer networks

need to:

- be empowered to put into practice lifelong learning through the learn by doing and best practice sharing

Research Infrastructures and thematic communities

- Research Infrastructure professionals,
- Researchers belonging to specific communities

need to:

- Acquire specific OS and RDM skills
- Tailor training on specific needs to embed FAIR principles in the research workflow

Thank you!
Questions?

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Links and references

- 2022 State of the Union Address by President von der Leyen, 14 September 2022, Strasbourg, https://ec.europa.eu/commission/presscorner/detail/en/speech_22_5493
- Commission kick-starts work on the European Year of Skills, 12 October 2022, https://ec.europa.eu/commission/presscorner/detail/en/ip_22_6086
- Skills4EOSC website www.skills4eosc.eu
- Skills4EOSC in CORDIS, https://cordis.europa.eu/project/id/101058527