Facilitate Open Science Training for European Research

Why Open Science?

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Open Science Implementation - is it a wrap rage?
Why a course on “Open Science”

- Open Science as a term is widely used but difficult to apply
  - Many components in the OS definition
  - Information regarding components not yet available
  - Some components not fully understandable or developed yet
  - Gaps in best practices, workflows, software, techniques
  - Training the trainers necessary to achieve its widespread adoption
  - Need to shift research practices and how to better proceed with this transition
  - How to assist fields who have taken the first steps towards Open Science and support fields reluctant to experiment
Open Science taxonomy
Purpose of the taxonomy

• Features for navigation and browsing
• Users subscribe and receive updates
• Allows connections between content files
• Provides a recommendation system in the platform
• Maps the field with a visual layout of the OS components
• Shows gaps in the field where attention is required
• Ensures that the platform covers OS related topics
• Assists with the helpdesk request
Open Science taxonomy with percentages

- 37% - Open Access
- 34% - Open Access Routes
  - 26% - Open Access Use and Reuse
  - 8% - Open Big Data
  - 8% - Open Data Definition
  - 23% - Open Data Journals
  - 18% - Open Data Standards
  - 36% - Open Data Use and Reuse
  - 5% - Open Government Data
  - 13% - Definition of Open Reproducible Research
  - 2% - Irreproducibility Studies
  - 9% - Open Lab/Notebooks
  - 41% - Open Science Workflows
  - 35% - Open Source in Open Science
  - 0% - Reproducibility Guidelines
  - 0% - Reproducibility Testing
- 31% - Open Data
- 2% - Open Science Definition
- 2% - Open Science Evaluation
- 78% - Open Metrics and Impact
  - 35% - Open Source in Open Science
  - 3% - Open Reproducible Research
- 16% - Open Science Policies
  - 88% - Organisational mandates
- 7% - Open Science Tools
  - 13% - Subject policies
- 2% - Open Science Projects
- 69% - Open Repositories
  - 22% - Open Services
  - 9% - Open Workflow Tools
- 40% - Gold Route
- 60% - Green Route
The following course is a general introduction to the various components and philosophies of Open Science, that can directly enrich each step of the scholarly lifecycle (Open Notebook Science, Open Data, Open Research Software, Open Access). The overall objective of the course is to provide an introduction to why Open Science is essential to rigorous, reproducible and transparent research, as well as to future research evaluation criteria focused on societal impact.

Open Science is the practice of science in such a way that others can collaborate...
FOSTER portal courses: details

• Available on the FOSTER platform [https://www.fosteropenscience.eu/](https://www.fosteropenscience.eu/)

• Currently 16 courses available in 3 languages (English, Spanish, Polish)

• So far the FOSTER courses were taken by 1700 learners
**Why an eLearning platform?**

- Technology allows online knowledge sharing
- Adoption of educational and learning methods
- Open Educational Resources (OERs)
- Massive Open Online Courses (MOOCs)
- Combination of learning activities
- Reaching globally a wide number of learners

Currently Open Science is mainly taught face to face - now an eLearning course using material with open licenses and attracting participants from all over the world is being implemented.
The course: Introduction to Open Science

- Learning outcomes
- Level of previous knowledge
- Targeted audience
- Online material with re-usable/open licenses
- Videos, readings, quizzes, certificate
- Self-paced for the time being
- Forum where learners can post questions

Direct link to the course https://www.fosteropenscience.eu/content/open-science-scientific-research
Propose and build your own course

• Create an account at the FOSTER portal
  • It is a free and easy procedure

• Send us an email with a short course proposal
  • elearning@fosteropenscience.eu

• Team of experts will review your proposal

• Interested to know what entails to build a course?
  • Course on Courses
    https://www.fosteropenscience.eu/content/foster-course-course-creation

• Translate an existing course in another language

What to do:

Search

Advanced search

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Thank you!

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