Using the FOSTER portal to build courses

Nancy Pontika, Petr Knoth, Matteo Cancellieri
CORE
The Open University, UK

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Open Science context

Open Science is situated within a context of ever greater transparency, accessibility and accountability.

The impetus for Openness in research comes from two directions:

**Ground-up** – OA began in the High Energy Physics research community, which saw benefit in not waiting for publication before sharing research findings (and data / code)

**Top-down** – Government/funder support, increasing public and commercial engagement with research

The main goals of these developments are to **lower barriers to accessing** the outputs of publicly funded research (or ‘science’ for short), to **speed up** the research process, and to strengthen the **quality, integrity and longevity** of the scholarly record
Open Science Implementation - is it a wrap rage?

Image from Wikipedia https://en.wikipedia.org/wiki/Wrap_rage
FOSTER portal

What to do:
Search

Take Courses | Create Courses | See upcoming events

Featured Topics

Open Access | Open Science | Open Data | Research Data Management

Open Science Policies | Funders policies | Open Access policies | Open Repositories

News

New course about Open Science in Information Literacy education
Go to the project website
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.
Courses quality: issues considered

- Andragogy
- Self-learning and moderated courses
- Rapid learning
- Learning objectives
- Granularity
- Content vs communication
Courses quality : evaluation

• Diagnostic evaluation
  • Is done at the beginning of the course to define the learning path

• Continuous evaluation
  • The evaluation done during the course

• Final evaluation
  • At the end of the learning process
  • Will provide a certification (formal or informal)
Courses quality: course objects

- Forum
- Lessons
- Contents
- Quizzes
- Certificates/ Badges
Open Science Taxonomy

A high resolution image can be downloaded from http://figshare.com/articles/Open_Science_Taxonomy/1508606
Open Science Taxonomy: terminology

Open Science is the practice of science in such a way that others can collaborate and contribute, where research data, lab notes and other research processes are freely available, under terms that enable reuse, redistribution and reproduction of the research and its underlying data and methods.

The act of practicing Open Science and the provision of offering to users free access to experimental elements for research reproduction.

Open Data are online, free of cost, accessible data that can be used, reused and distributed provided that the data source is attributed and shared alike.
Open Science Taxonomy: topics overview

The topics overview can be found at https://www.fosteropenscience.eu/topics/overview
Complementary taxonomies

Research Data Management Taxonomy

Legal Issues Taxonomy

Legal Issues

Research Data Management

Research Data Management Plans

Research Data Management Policies

Research Data Management Services

Research Data Management Standards

Research Data Management Tools

Intellectual Property Rights

Law

Licences
Open Science Taxonomy: issues

Problems:
- Number of hierarchies
- Terminology
- Terms organisation
- Level of depth for each term

Solutions:
- Regular meetings after each taxonomy version
- Separate hierarchies, rather than use them in parallel
- Three level depth
- All “children” terms corresponded to “parent” terms
Open Science Taxonomy on Twitter

What is #OpenScience? as mapped by @fosterscience, fosteropenscience.eu

RETWEETS: 162  FAVORITES: 113
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, OpenData, 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...
Existing courses

• Currently 14 courses on the FOSTER portal: original or translations from the English versions

• In 3 languages:
  • English
  • Spanish
  • Polish
Propose, design and build a course

How to create a course in the FOSTER portal

Are you interested in creating courses about Open Science? Please let us know:

In order to create a course you should:

- **Register** to the portal.
- **Email us** a course summary and our team of experts will review your work.
- **Take the course** “Course on Course creation”, which explains how to work with the platform and publish your material.

COURSE: FOSTER Course on Course Creation

Intended audience: Librarians and Repository managers, PHD Students, Policy makers and Funders, Project Managers, Publishers, Research Administration, Researchers and Students

Level: Introductory; no previous knowledge is required

The aim of this tutorial is to assist course instructors with creating new courses and editing existing ones in the FOSTER portal.

After completing the module, the course instructors will be able to:

- propose a course
- upload course material in the portal
- create a course
- add a lesson and lesson material
- create and add a quiz
- publish the course
- communicate with the course participants (use the Forums)

If you would like to propose a course email us elearning@fosteropenscience.eu.
Project information

Website
www.fosteropenscience.eu

Take Courses
https://www.fosteropenscience.eu/courses

Create Courses
https://www.fosteropenscience.eu/coursecreation

Contact email:
emailing@fosteropenscience.eu

Twitter:
@fosterscience
Thank you!

Nancy Pontika, PhD
Open Access Aggregation Officer
CORE [http://core.ac.uk](http://core.ac.uk)
Email: nancy.pontika[at]open.ac.uk
Twitter:
personal: @nancypontika
CORE: @oacore