Facilitate Open Science Training for European Research

Introduction to FOSTER and lessons learnt

Gwen Franck and Iryna Kuchma (EIFL)

FOSTER Workshop - Open Science at the Core of Libraries, LIBER 2016, 29 June 2016
About FOSTER
Facilitate Open Science Training for European Research

• 2.5-year EU-funded FP7 project (Feb 2014 - Jul 2016)
• 13 consortium partners (Project lead: University of Minho)
• Collaboration and support by 77 other organizations (Universities & research institutes, Graduate Schools, students and young researchers associations, scientific communities, etc.) from 24 countries

“Spread the seeds of Open Access and Open Science”

This project has received funding from the European Union’s Seventh Framework Programme for research, technological development and demonstration under grant agreement no 612425
Methods and tools

Training Courses
- Join the Open Science learning community and contribute to the open resources collection
- Create e-Learning courses and track learning progress and monitor courses
- Combine Face-to-face with Online Courses for Blended Learning Formats
- Identify best practices and adapt courses to local context
- Find FOSTER events in your country, language and discipline

Training Resources
- Browse existing material under open licenses, quality assured by the FOSTER consortium
- Select your target groups
- Determine your learning objectives
- Combine from a wealth of formats: short multimedia clips, comprehensive video lectures, presentations, and lots more

Open Science Taxonomy
- Find expert speakers

Training Portal
- Search database of training resources and view recommendations and featured material
- Receive notifications on new content
- Use Helpdesk and FAQs
FOSTER Portal

Featured Topics

- Open Access
- Open Science
- Open Data
- Research Data Management
- Open Science Policies
- Legal Issues
- Open Access Routes
- Open Access Use and Reuse

FOSTER training programme: "Open Access and Open Data in Horizon 2020"

FOSTER training programme: Training the trainers on Open Access and Open Science

More
FOSTER Portal

- e-learning platform for training resources for those who need to know more about Open Science, or developing strategies and skills for implementing Open Science practices

- Growing collection of training materials to meet the needs of many different users: early-career researchers, data managers, librarians, funders, graduate schools
FOSTER Portal

- All materials are free to use, and can be edited, repurposed, recombined to suit your own training needs.

- Many of these materials are being compiled into courses.
# Learning Objectives

<table>
<thead>
<tr>
<th>TOPICS (following the Research Lifecycle)</th>
<th>CORE LEARNING ELEMENTS</th>
<th>LEARNING OBJECTIVES (as basis for a LEARNING PLAN)</th>
<th>STAKEHOLDER</th>
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<tbody>
<tr>
<td></td>
<td></td>
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<td>Doctoral Students</td>
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<tr>
<td>RDM Plans</td>
<td>Define RDM Plans</td>
<td>Indicate characteristics of the RDM Plans</td>
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<td></td>
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<td>Appraise the characteristics of a RDM plan to your discipline/project</td>
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<tr>
<td></td>
<td>Prepare a RDM Plan</td>
<td>Create a RDM Plan</td>
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<td>Apply the RDM Plan to your discipline/project</td>
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<td>RDM Policies</td>
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<td>Identify RDM Policies</td>
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<td></td>
<td></td>
<td>Comply with RDM Policies</td>
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<tr>
<td>RDM Services</td>
<td>Identify RDM services</td>
<td>Identify relevant RDM Services</td>
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<tr>
<td></td>
<td></td>
<td>Categorize RDM Services</td>
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<tr>
<td></td>
<td>Use RDM services</td>
<td>Integrate RDM services in your discipline/project/workflow</td>
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<td></td>
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<td>Evaluate &amp; Compare RDM services</td>
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<tr>
<td>RDM Standards</td>
<td>Describe existing RDM Standards</td>
<td>Identify existing RDM Standards</td>
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<tr>
<td></td>
<td>Implement existing RDM Standards</td>
<td>Analyse RDM standards requisites</td>
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<tr>
<td></td>
<td>Identify existing RDM Tools</td>
<td>Promote RDM Standards in your discipline/project</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Apply existing RDM Standards</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Use RDM Tools</td>
<td>Identify existing RDM Tools</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Compare RDM Tools</td>
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<tr>
<td></td>
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<td>Select relevant RDM Tools</td>
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[https://www.fosteropenscience.eu/project](https://www.fosteropenscience.eu/project) -> About the project -> Deliverables
# Training Toolkit

- Helping you to create your own Training Event
- Suggestion: 6 TYPES OF TRAINING SESSIONS

<table>
<thead>
<tr>
<th>Audience</th>
<th>Expert talk</th>
<th>Talk by peers</th>
<th>Panel session</th>
<th>Workshop</th>
<th>Group work/Break-out sessions</th>
<th>E-learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students &amp; Academic Staff</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Administrators &amp; Librarians</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Research Project Managers</td>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Policy makers &amp; Funders</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
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teaching (online courses, webinars, etc.).
FOSTER Trainings 2014 - 2016
Reach of FOSTER trainings

<table>
<thead>
<tr>
<th>Plan</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Fund 10 training programs per year (2014 - 2015)</td>
<td>• 2014: 17 successful proposals (over 70 events in 13 countries)</td>
</tr>
<tr>
<td>• 10.000€ each training</td>
<td>• 2015: 24 successful proposals (46 events in 20 countries)</td>
</tr>
<tr>
<td></td>
<td>• 2016: 12 additional events</td>
</tr>
<tr>
<td></td>
<td>• 53 Trainings (128 events)</td>
</tr>
<tr>
<td>• 20 Trainings</td>
<td>• 2016: 12 additional events</td>
</tr>
<tr>
<td>= 200.000€</td>
<td>• 53 Trainings (128 events)</td>
</tr>
<tr>
<td>= 10.000/training</td>
<td>• 200.000€</td>
</tr>
<tr>
<td></td>
<td>• 1.562.5€/event</td>
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FOSTER
Event Data 2014-2015

AUDIENCE
5053

EVENTS
125

PARTICIPATING COUNTRIES
26

PARTNER COUNTRIES
15

COST
€1,499,860

FUNDING COMMUNITY IDEAS
€170,000

COST PER TRAINED PERSON
< €300
<table>
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<tr>
<th>Country</th>
<th>Audience</th>
<th>Percents</th>
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<tbody>
<tr>
<td>EU*</td>
<td>562</td>
<td>11%</td>
</tr>
<tr>
<td>Spain</td>
<td>520</td>
<td>10%</td>
</tr>
<tr>
<td>UK</td>
<td>492</td>
<td>9.5%</td>
</tr>
<tr>
<td>Germany</td>
<td>488</td>
<td>9.5%</td>
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<tr>
<td>Croatia</td>
<td>480</td>
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<tr>
<td>France</td>
<td>345</td>
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</tr>
<tr>
<td>Lithuania</td>
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</tr>
<tr>
<td>Poland</td>
<td>163</td>
<td>3%</td>
</tr>
<tr>
<td>Finland</td>
<td>162</td>
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<tr>
<td>Slovenia</td>
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<td>3%</td>
</tr>
<tr>
<td>Portugal</td>
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<tr>
<td>Netherlands</td>
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<td>Latvia</td>
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<td>Greece</td>
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<td>Norway</td>
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<tr>
<td>Italy</td>
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<tr>
<td>Austria</td>
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<tr>
<td>Bulgaria</td>
<td>20</td>
<td>0.5%</td>
</tr>
</tbody>
</table>

*Eu refers to the webinars which were followed by audience from different countries in Europe
## Audience per Stakeholder

<table>
<thead>
<tr>
<th>Stakeholders</th>
<th>Audience</th>
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<tbody>
<tr>
<td>Researchers and Students</td>
<td>2045</td>
</tr>
<tr>
<td>Librarians and Repository Managers</td>
<td>1420</td>
</tr>
<tr>
<td>Research Administrators</td>
<td>672</td>
</tr>
<tr>
<td>Policy Makers and Funders</td>
<td>102</td>
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<tr>
<td>Project Managers</td>
<td>50</td>
</tr>
<tr>
<td>PHD Students</td>
<td>43</td>
</tr>
<tr>
<td>Remaining Stakeholders</td>
<td>?</td>
</tr>
</tbody>
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10.5281/zenodo.48746
<table>
<thead>
<tr>
<th>Subjects</th>
<th>Percents</th>
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</thead>
<tbody>
<tr>
<td>Open Science</td>
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</tr>
<tr>
<td>Open Access</td>
<td>19.5%</td>
</tr>
<tr>
<td>Open data</td>
<td>12.5%</td>
</tr>
<tr>
<td>Research Data</td>
<td>9.5%</td>
</tr>
<tr>
<td>Funders Policy</td>
<td>7%</td>
</tr>
<tr>
<td>Research Data Management</td>
<td>6%</td>
</tr>
<tr>
<td>Open Science Policy</td>
<td>5%</td>
</tr>
</tbody>
</table>
Collaborations & partnerships

FOSTER-CESSDA Data Management Training in Ljubljana (Slovenia), Manchester (UK), Cologne (Germany), Lausanne (Switzerland), and Copenhagen (Denmark)

4 months: July 23, 2015 - November 25, 2015

UK Data Service (University of Essex and University of Manchester), GESIS - Leibniz Institute for the Social Sciences, National Archives/Danish Data Archive (DDA), Swiss Centre of Expertise in the Social Sciences (FORS) and Slovenian Social Science Data Archives (ADP)
Collaborations & partnerships (2)

Promoting Open Science among Young Researchers: Challenges and Opportunities
Kaunas University of Technology: Vilnius and Kaunas
March 19 2015 - March 31 2016 (5 workshops)

Developing young researchers’ competence on open science and practical skills on OA publishing and RDM. The series of workshops and a round table discussion with policy makers, funding agencies institutional managers, research administrators, etc.: the Research Council of Lithuania, Ministry of Education and Science of the Republic of Lithuania, NPR, etc.
Collaborations & partnerships (3)

Connecting Data for Research: Good Practices for Data Integration and Reuse, Amsterdam

Vrije University Amsterdam (VU), the University of Amsterdam, Leiden University, Radboud University, Amsterdam University of Applied Sciences, SURF and DANS.

Lessons learnt: focus on one discipline and a half-day event; organising an event with different institutions is time consuming. But without all the organisations it will be impossible to invite so many researchers.

VU plans a course programme on Data Essentials for all PhD students from 2016 onwards.
Collaborations & partnerships (4)
Access in Action, Berlin, European Medical Students Association

Format: from panel speeches to presentations, group workshops and roundtable discussions, active engagement.

Lessons learnt:

- OA and Open Science need to be explained more broadly (a lot of it is misinterpreted);
- Students are still not aware/very little aware about OA;
- Academia and the students organizations do not engage (enough) into dialogue how to implement/promote OA;
- There is a need for and platforms such as FOSTER.
Getting credits

Winning Horizon 2020 with Open Science, Spain

Training young researchers (PhD & Graduate Students): workshops in Madrid (80 attendees) and Valencia (150 attendees) with Doctoral Schools in Universidad Carlos III de Madrid (UC3M) and Universidad Politécnica de Valencia (UPV)

UC3M: PhD students got the transversal training credit through attendance but also writing a post in the Blog. UPV: students got the credit by attendance and participation. UC3M plans a seminar about Open Science for doctoral students and young researchers on a regular basis, as transversal training for all PhD programmes using FOSTER training materials.
Documentos del Winning Horizon 2020 with Open Science. Foster event: Training young researchers

10 junio, 2015 - Todos - Documentación, Horizon 2020, Investigación y Ciencia

A modo de recordatorio quisiera aportar al blog en vez de un comentario del evento, como
#iamanopenscientistbecause

**Eva Méndez** @evamen · 24 Jul 2015

#iamAnOpenScientistbecause there is @CienciaConFutur. And I just discovered their blog and it is great!!! #OpenScience

**Open Science** @openscience · 8 Jul 2015

"#iamAnOpenScientistBecause engaging with 'Sunday scientists' is not less important to me than with the formal research community" - @EvoMRI

**Eva Méndez** @evamen · 23 Jun 2015

Now Patient Innovation: sharing solutions to save lifes...

#iamAnOpenScientistbecause it save lifes!!! #ERAofInnovation

**D@aniel Mietchen** @EvoMRI · 22 Jun 2015

Pinging the #iamanopenscientistbecause crowd about #ERAofInnovation and vice versa

**Eva Méndez** @evamen

What is #OpenScience? Follow live streaming of #ERAofInnovation in: ec.europa.eu/research/confe... Good moment for:

#iamAnOpenResearcherbecause

**Foster Open Science** @fosterscience · 28 May 2015

We are at the EC event "Future of the Doctorate" future-doctorate.teamwork.fr, and your #iamAnOpenScientistBecause input will be shown in plenary
Train-the-trainers approach

Czech Open Science/Research Days 2015

“Train-the-Trainers” and “Train-the-Advocates” programmes (100 people)

Czech University of Life Sciences with Association of Libraries of Czech Universities, Brno University of Technology; Charles University in Prague, Faculty of Arts, Institute of Information Studies and Librarianship, Czech Technical University in Prague and VŠB - Technical University of Ostrava
Train-the-trainers approach (2)

Czech Open Science/Research Days 2015 (2)

• Higher attention of research administrators and young researchers drawn to the OA and open science related issues.

• New partnerships and co-operations between researchers, research administrators and academic librarians were established.

• Several follow-up workshops were organized at the home institutions of training participants.

• OA and open science related issues were introduced into the master level courses held at LIS schools in the Czech Republic.
Train-the-trainers approach (3)

Winning Horizon 2020 with Open Science, Spain

Workshop for academic librarians and repository managers (80 people), as a pre-conference free workshop of FESABID2015, the main biannual conference for librarians at national level, organized by the federation of information professionals in Spain
Action-oriented

Open Access to Research Publications and Data, Nicosia, University of Cyprus

A training for funders and policy makers on developing a national OA policy aligned with Horizon 2020 (a 2-hour meeting), a training for researchers and a training for librarians and repository managers (9 hours).

On the 25th of February 2016, the Council of ministers of the Republic of Cyprus, approved the National policy for Open Access in Cyprus.
Leveraging Open Science to Facilitate Interdisciplinary Cancer Research, Young Alliance Against Cancer, Copenhagen

Day 1 featured prominent speakers from cancer research; Day 2 was dedicated to Open Science:

- **3 Open Science talks:** OA & OA Advocacy; Repositive - a public platform for genomic data discovery & data collaborations; OpenScienceLink
- **4 Open Science Workshops:** Open Science & Research Life Cycle, Open research data: how to manage and share your research data, Open source code, 100% Open Access: Publishing do not have to cost you anything

Successful young PIs shared the stories behind their fast-tracked careers (and also about their exciting research).
**Action-oriented (3)**

**Software Writing Skills for Your Research, Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences, in collaboration with The Software Carpentry**

4 months: September 23-25, 2015 (workshop for novices), October 21-23, 2015 (workshop for users with intermediate knowledge) and December 14-16, 2015 (workshop for proficient users) - 73 people trained

Presented results and experiences at the EGU General Assembly in 2016 in a session 'Open Science goes Geo'.
Software Writing Skills for Your Research (2)

• Workshops to pass software writing skills are highly demanded by early career scientists and have to be offered on the regular basis.

• It is quite easy to structure the curriculum answering general demands. In the future demands will become more specific and advanced and curriculum will be a challenge.

• Small groups with homogeneous background knowledge work the best. In case of sophisticated software writing skills an additional day to create homogeneous background knowledge by recapitulating the required skills to build upon.

• Free workshops with free coffee create a good atmosphere; lightning talks of the participants sharing experiences.
Action-oriented (5)

Open Access Trends and Open Data for the Agropolis Scientific Community, Montpellier, October 2015 throughout January 2016

A conference + four half-day workshops for the Agropolis scientific community involved in the fields of agriculture, food, biodiversity and environment + 10 posters on OA + “face to face” practical training for researchers + 2 courses and a workshop for trainers on Open Data, Practical aspects of OA and on Dissem.in tool to facilitate the identification of publications ready to deposit in an OA repository + factsheets + screencasts + an article
Action-oriented (6)

OA Trends and Open Data for the Agropolis Scientific Community (2)

Objectives:

• Increase the % of articles published in OA journals (from 16% to 20% in two years) and the % of scientific articles deposited in repositories (% in 2013: 65% for CIHEAM-IAMM, 54% for IRSTEA Montpellier, 42% for IRD, 36% for Cirad, 25% for INRA Montpellier).

Results:

• 500+ publications have been deposited in OA repositories during the OA Week by researchers from INRA and IRD.

https://hal.archives-ouvertes.fr/AGROPOLIS: 11,977 records from 76 research units.
**Action-oriented (7)**

YEAR Annual Conference 2015: Open Science in Horizon 2020, Espoo, Young European Associated Researchers (YEAR)

Day 1: Introducing strategies for fulfilling OA requirements in H2020 projects and Open Research Data Pilot: background information and useful tools.

Day 2: Young researchers were invited to submit a project idea relying on, or promoting Open Research Data/Open Science aspects prior to the conference. In total 15 excellent project ideas were submitted. At the workshop on Day 2, the ideas have been worked on further in groups (to gain hands-on experience as well as to find other potential project partners).
Congratulations to the winners Oliver Zendel (AIT, Austrian Institute of Technology) for his idea Towards an Open Peer-Review Process, and to Helena Henno (VTT) for her idea Fluvoid - a Smartphone-based Diagnostic System for Preventing Epidemics. The awards consist of a European Project Management training course and 5000€ each to further develop the project ideas. The YEAR Award is fully funded by YEAR.

Feedback from the participants:

Networking possibilities + learning about Open Science.

+++ Workshop on project ideas, the interactive parts of the conference, as well as How to open up my data training session.

After the conference the YEAR Board decided to join the Right to Research Coalition (R2RC).

Michela Vignoli, YEAR Board Member, is a member of European Open Science Policy Platform.
Blended learning

A Three-Step Approach to Practical Trainings on OA Policy Development and RDM, University of Tartu Library, Estonia

One-day training course "Introduction to RDM for Social Scientists": short presentations + hands-on exercises + discussions + good practice examples + practical advice (how to): 22 attendees from 3 major Estonian universities and the Estonian Research Council.

In cooperation with three major universities, free online learning materials + interactive self-tests (practical skills and techniques). 53 University of Tartu doctoral students have already attended an online course on Open Data and RDM in Estonian. The English language version of the course is under development.
Blended learning (2)

Open Science - the 21st Century Benefits for Researchers, RIGA, National Library of Latvia, University of Latvia, Riga Technical University

- A conference with 120 attendees
- 3 workshops:
  - Implementation of OA in Research Institutions;
  - Digital Research Data - Practical Tools and Tips;
  - The Role of Libraries
- e-learning course on Open Science (in Latvian)
Par kursu / Course info


FOSTER


Papildus informācija:
OpenAIRE2020
Horizon 2020

Nacionālais atvērts piekļuves dienests
Gita Rozenberga
Nacionālais atvērts piekļuves dienests
e-pasts: gita.rozenberga@lu.lv

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E-course has been created so that there would to get a full understanding of the term "Open Science" as well as to promote it's recognition amongst the members of Latvian society of science. The principles of the open science are gaining a stronger role in science's development facilitation in the world. The materials that are used...
Taking & Designing courses

• Take a course about how to create your own courses out of the FOSTER resources: https://www.fosteropenscience.eu/content/foster-course-course-creation

• Propose courses
Open Science at the Core of Libraries

Libraries have gone a long way to facilitating research workflows, and more recently on fostering open access to science and openness in a broader sense. Science is evolving: research practices, resources and tools are opening up and going beyond a publication based model, to a new open environment of research data and digital research tools, social media and collaborative platforms. There is a compelling need for libraries to encompass these changes. The challenges are not only technological but also cultural and attitudinal and require a clear effort to engage and develop the necessary skills and knowledge involved in this Open Science environment.

This introductory course is addressed to librarians at different levels and positions that are committed to supporting researchers and their research processes at their institutions, and would like to gain
Available e-courses

- **Introduction to Open Science** (also available in **Polish**)
- **Open Science at the Core of Libraries**
- **Designing Successful Open Access and Open Data Policies: Introductory, Intermediate**
- **Open Access to publications in Horizon 2020** (also available in **Portuguese**)
- **The Horizon 2020 Open Research Data pilot** (also available in **Portuguese, Spanish** and **Polish**)
- **Making your Repository or Open Access Journal OpenAIRE compatible with OA Horizon 2020 requirements**
- **Integrating Open Science in Information Literacy education**
Findings

• **FOSTER call as a starting point**
  • Courses that we couldn’t cofund/co-organize took place anyway
  • Those who missed our calls have been encouraged to conduct their trainings (using attention that the calls received)
  • FOSTER branding & competencies, training materials

• **1st call to build awareness for the topic & brand, 2nd call to target specific audiences & areas**
  • Topics changed from Open Access focus to wider Open Science and Open Data (Data Management) area

• **Broad horizontal approach across all open science topics, specialization through co-funding of community-driven events**

• **Good coverage, diverse stakeholders and audiences**
Feedback

• Quality of trainings between ‘good’ and ‘excellent’, especially speakers and training materials
• Wide range of topics in majority of trainings
  • Good for overview
  • Would have preferred focus on smaller amount of topics
• No ‘one size fits all’ approach: local trainers were able to identify and target specific subjects and audiences
• Plus: Infrastructure for hosting eventa pages and training materials
• Researchers, in particular those using qualitative methods, still need additional support in finding ways to share data ethically and meaningfully.
Lessons Learnt

• What worked well: “Presentation of cases and researchers’ firsthand and ‘hands on’ experiences was very instructive, the examples of good practices, the tools that were shared, the overview of different issues involved, the good mix of practice and policy, the presence of repository providers and the good communication about the event. “

• For many participants the most valuable aspects of the event where operational and strategic ones such as «how to».

• Generally people were very interested to hear the experiences of other institutions who are further down the road. Attendees appreciated hearing of the practical problems that may have been encountered and how speakers adopted a realistic approach to sharing their experiences.
Lessons Learnt (2)

• Several participants mentioned that it would be useful to get a certificate of participation in FOSTER seminars.
• Livestreaming of the event considerably increases the audience of the event.
• Personalised invitation e-mails were very effective for attracting attendees.
• Take-up for the events was excellent, although there were several 'no shows' and last minute cancellations to the workshops. This can often be the case for free workshops as delegates sometimes don't value their place as much as they would do if it was 'paid for'.
• Researchers sometime prefer online trainings (less constraining in time and travel).
Recommendations

- Graduate schools to catch up on Open Science training
- Coordination and combination with research integrity training highly recommended
- Every data-related and e-infrastructure project or initiative should have a strong training component
- Develop into a network of training hubs
- Expand train-the-trainers approach to facilitate a network of trainers across sub-topics of open science
- Tap into students organizations
Thank you! Questions?

www.fosteropenscience.eu

gwen.franck@eifl.net
@g_fra

iryna.kuchma@eifl.net
@irynakuchma