Open Science
Inspiring Cultural Change In Your Library

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NOTES

- **The webinar is being recorded.** All participants will receive a link to the recording later today.
- **Slides are on Zenodo:** See the chat box for the link.
- **Questions?** Put them in the chat box. We'll put questions to the speakers at the end of the webinar.

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EUROPE'S RESEARCH LIBRARY NETWORK

Founded in 1971

Research libraries working together for nearly 50 years

440 Libraries

Our policies, tools and infrastructures are reshaping research processes and mindsets in favour of Open.

One mission

We aim to enable outstanding research and, by extension, the growth and sharing of knowledge.

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VISION
THE 2022 RESEARCH LANDSCAPE

Open Access

Is the main form of publishing

Research Data

Is Findable, Accessible, Interoperable and Reusable (FAIR)

Digital Skills

Underpin a more open, transparent research life cycle

Research Infrastructure

Is participatory, tailored and scaled to the needs of diverse disciplines

Cultural Heritage

Of tomorrow is built on today's digital information

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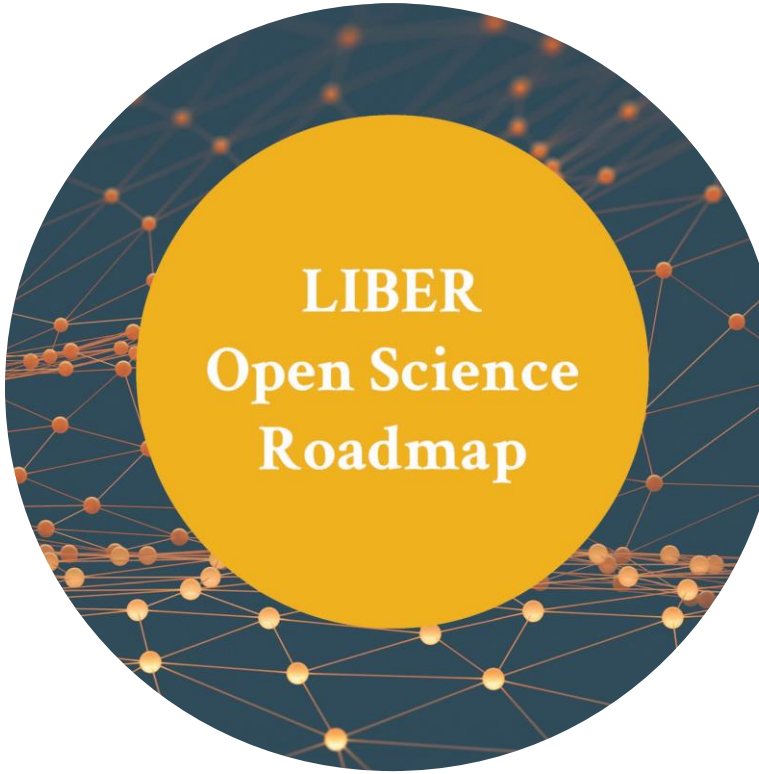
OPEN SCIENCE ROADMAP

...all libraries can do something and any step - no matter how small - is a step in the right direction.

It is no longer a question of if but how.

https://zenodo.org/record/1303002



CHANGE OF CULTURE

1. Use training and advocacy to foster a common understanding.
2. Ensure that your institution has an Open Science policy.
3. Reflect your commitment to Open Science across all services.
4. Share inspiring examples.

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Open Science & Cultural Change

Examples from Stockholm University Library in Sweden

Wilhelm Widmark, Library Director | @wilhwid

Sofie Wennström, Analyst | @SofieWennstrom

Stockholm University Library, Sweden

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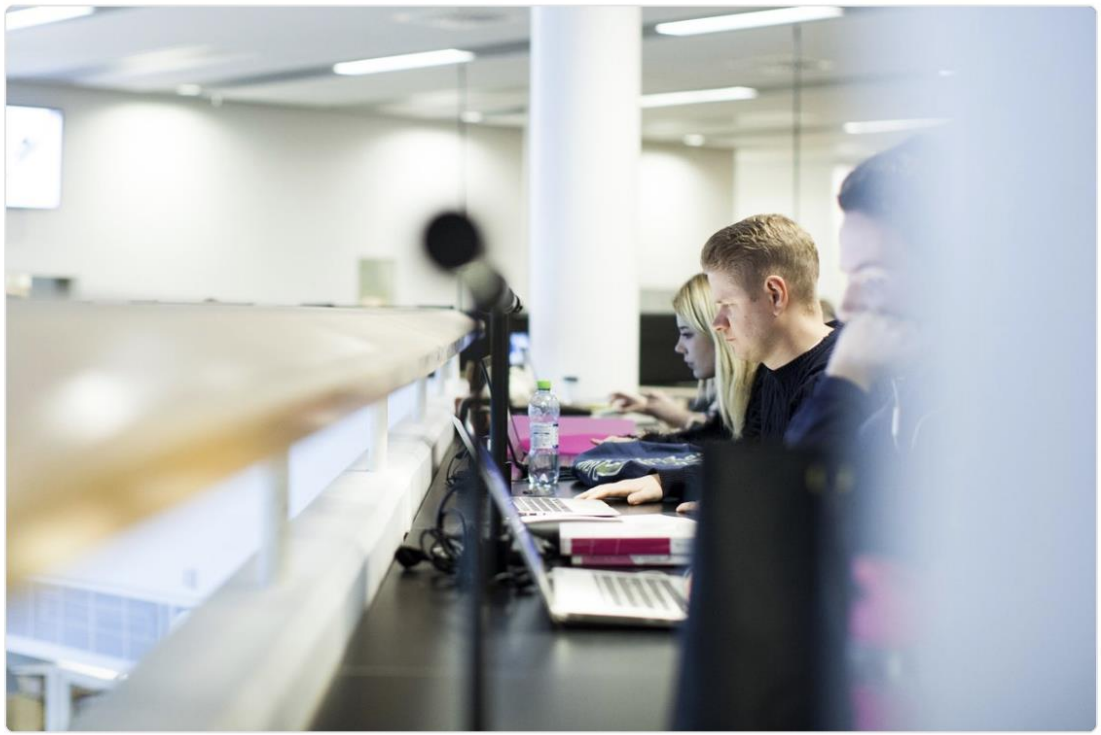
Stockholm University
@Stockholm_Uni

Following

"Ultimately, it is a democracy issue that research results can be disseminated openly", says President @Stockholm_Uni Astrid Söderbergh Widding on using money saved from cancelled agreement w publisher Elsevier to publish research in Open Access journals su.se/english/librar …



9:59 AM - 2 Jul 2018

Stockholm University
@Stockholm_Uni

Following

Open Access 2020 – a new global direction, blog post by President Astrid Söderbergh Widding su.se/english/vice-c … #openaccess

5:50 PM - 7 Dec 2018

7 Retweets **5** Likes

7 5

Transition to Open Access in Sweden

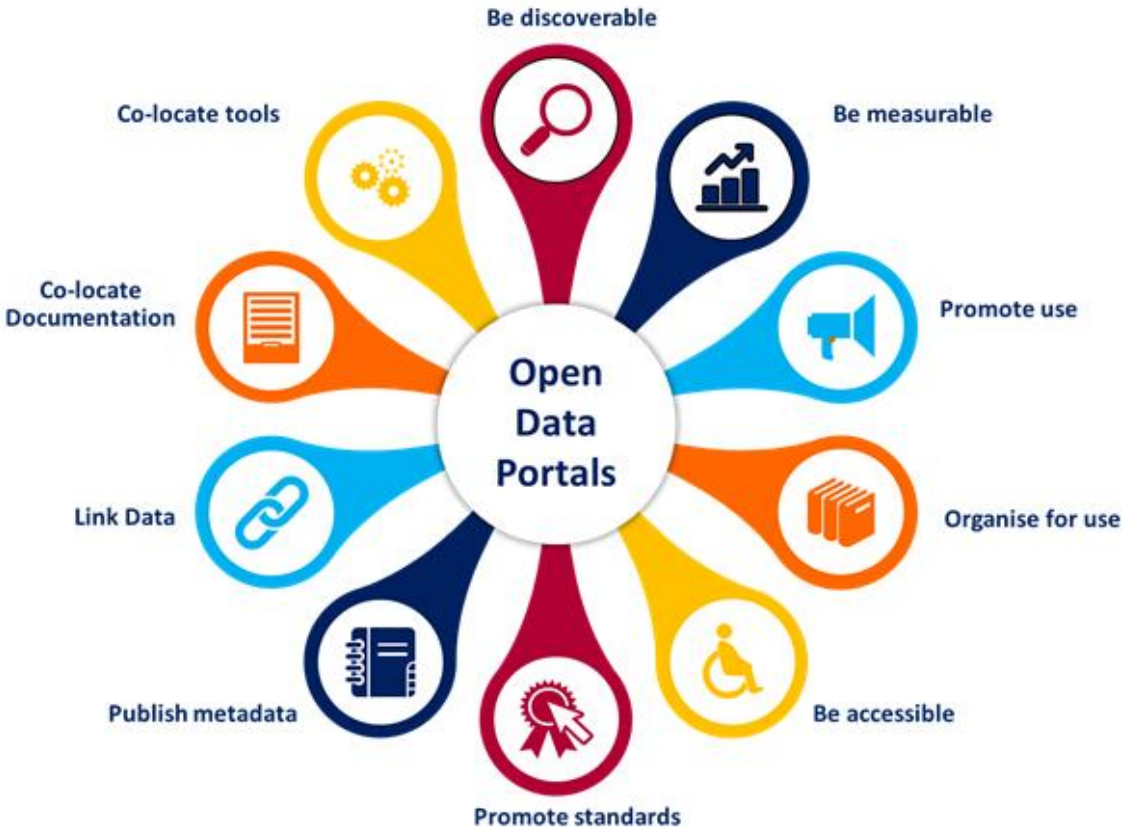
"The goal is that a transition to open access to research results, including scientific publications, artistic works and research data, should be fully implemented in a ten-year perspective."

(The Swedish Research Bill, Knowledge in Collaboration 2016/17:50)

Stockholm University

Open Science as a practice

"Stockholm University advocates the availability of its research and research results through a research and education environment that promotes, encourages and informs about open science as a practice"



Forskningsdatapolicy Stockholms universitet
Dnr SU FV 5.1.1-1780-17, 2018-02-22

Government Directives for Open Access

- **The National Library of Sweden** –
  National coordinating body for Open Access to scholarly publications
  - Open Access Advisory Group
  - National working groups OA

- **Swedish Research Council** –
  National coordinating body for Open Access to Research Data
  - National Reference Group

- Two parallel assignments for OA to publicly funded scientific publications and research data - compliant to FAIR principles.

- Reporting to Ministry of Education in March, 2019

Image Credit Creative Commons CCO 1.0

Swedish Rectors' Conference

2016:

- Open Science is not a library matter!
- But the libraries could help in building infrastructures, lobbying and education
- Open Access should be a question for the management of the universities

2018:

- The Rectors´ Conference advised Bibsam to cancel the agreement with Elsevier

Negotiating transformative agreements

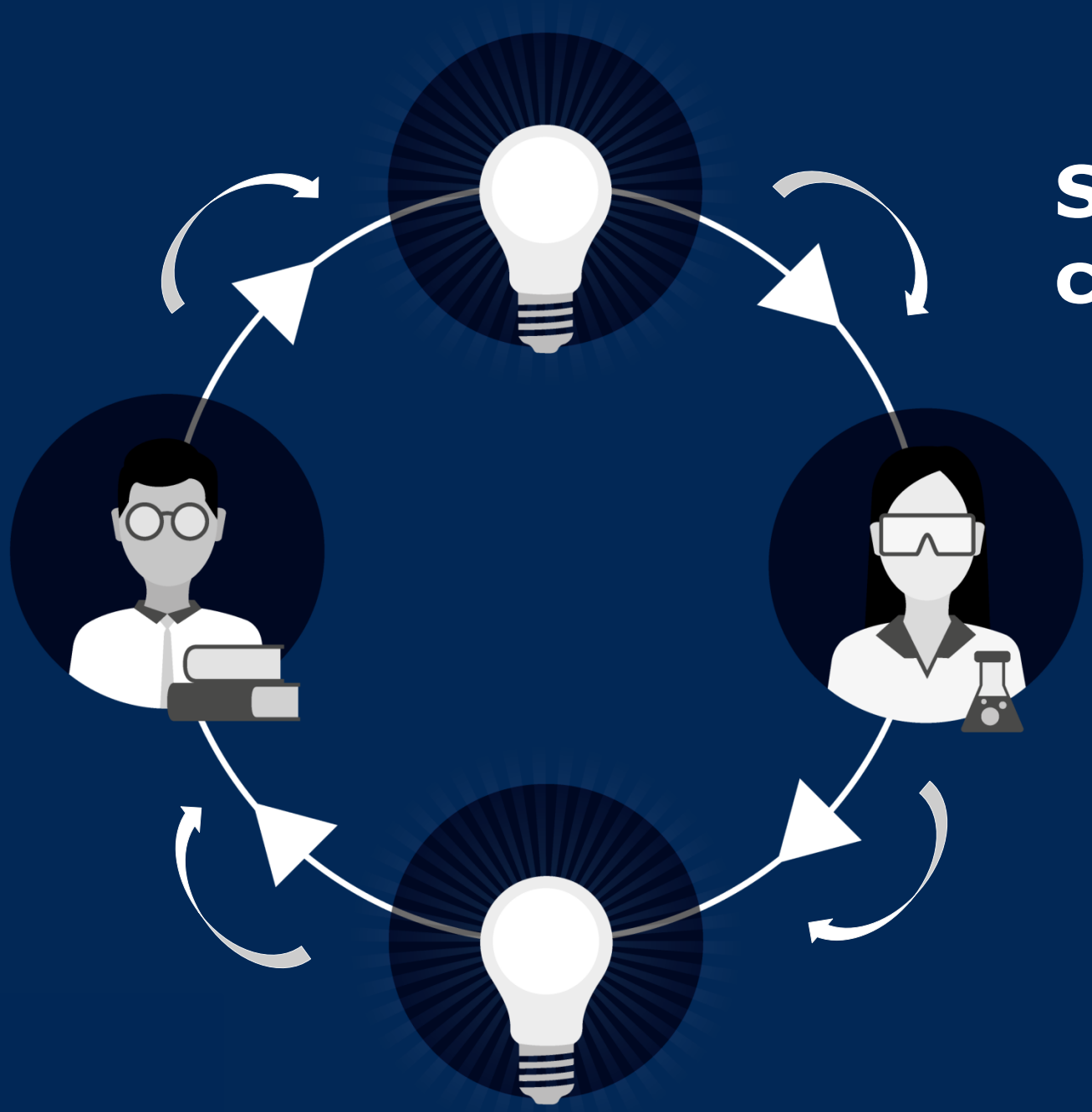
Preconditions

- New market
- Different business models
- Pilots
- Negotiations takes long time
- Shorter agreements

Cancellation of Elsevier agreement

Lessons Learned so far…

- Support from the Vice Chancellors is extremely important
- Political back-up
- Preparation is everything
- Get in control of your own publication data
- A communication plan is needed
- Researchers seem to manage fairly well without current access to Elsevier journals
- Services like ”Get it now” are not yet as heavily used as expected
- Never underestimate your opponent…



Science as a situated communicative practice

- Sharing of ideas and testing results
- Research as a network activity
  - Journals
  - Societies
  - Conferences
  - Online spaces
- Where is the Library positioned?

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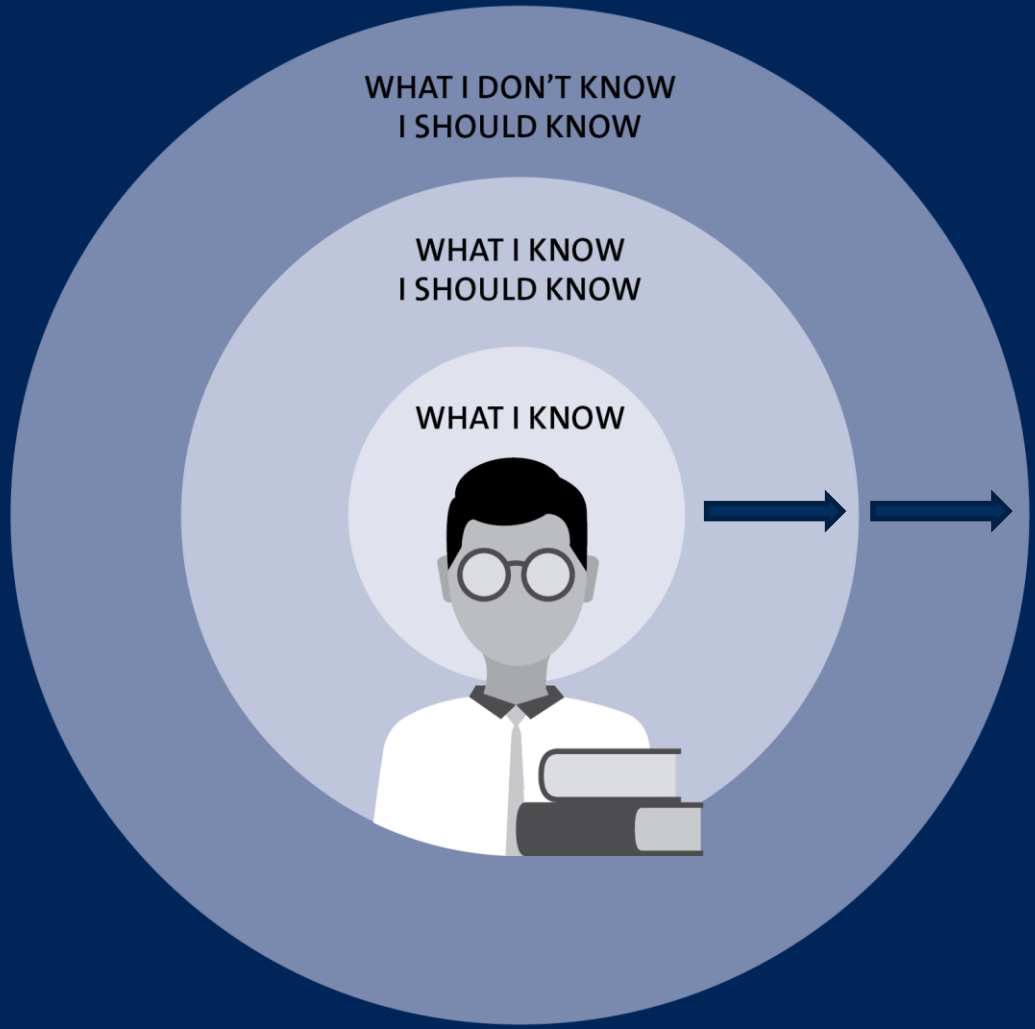
Support the User to Expand their Horizons



through Communication and Availability

Illustration by: Karl Edqvist
From original by Transformator Design

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Knowledge Needed to Share

- File formats and metadata for accessibility
- Copyright and correctly reference digital/new material
- Describe content & best ways to disseminate
- Quality assurance of material before sharing

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Influencing Cultural Change

- Show evidence about the direction of change
- Share good examples
- Design services to provide relevant support at the right time
- Make yourself and the instructions available

Financial Support to Publish Open

- Institutional deals with publishers

  → APCs prepaid/invoiced directly to the library

- Library fund for publishing in full OA journals (if listed in DOAJ)

  → Eligible authors to contact openaccess@su.se

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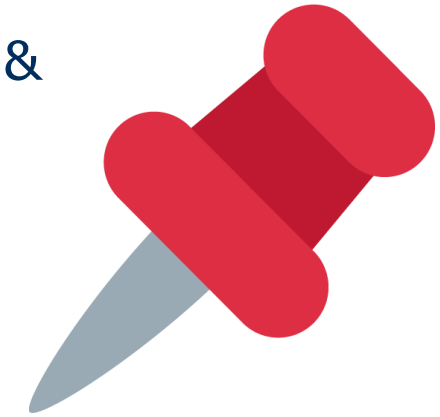
Current OA Agreements

- **Where all APCs are prepaid/invoiced directly to the library**
- **OA Publishers**
  - PLOS, Copernicus, Frontiers, MDPI
- **National consortia agreements (Bibsam) hybrid journals**
  - De Gruyter, IOP, Royal Society of Chemistry, Springer, Taylor & Francis, Cambridge University Press, Oxford University Press

- Read more: https://www.su.se/library/apc



Research Data at Stockholm University

Stockholm University offers support services for the management, storage, publication and preservation of research data.

- Contact
- Participant Portal
- Prisma
- Publishing support
- Research Professional
- SU Regulations

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http://su.se/researchdata

FAQ

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- What about old Elsevier articles, how can we access them?
  - You have access to all Elsevier journals before June 30th, 2018 via the normal channels.
  - If you want new articles, you can use the online tool ”Get it Now” to order directly, or e-mail openaccess@su.se for further advice.
  - Other options for new articles from Elsevier are the tool https://unpaywall.org/ or to e-mail the author.
  - See also further advice from the National Library
- What OA options do I have if I want to publish?
  - It depends on the journal or platform, of course – select your option or OA by default
  - See https://www.su.se/library/apc for prepaid deals and discounts.
  - You can search in the database http://www.sherpa.ac.uk/romeo/index.php for policies by publisher or journal.
- What is the total cost in Sweden for publishing and reading?
  - Numbers should be available in the national library statistics database: http://bibstat.kb.se/
  - You can also check publishing fees from an international perspective in the Open APC database: https://www.intact-project.org/openapc/

Open science training

Iryna Kuchma, EIFL Open Access Programme Manager,
Twitter: @irynakuchma

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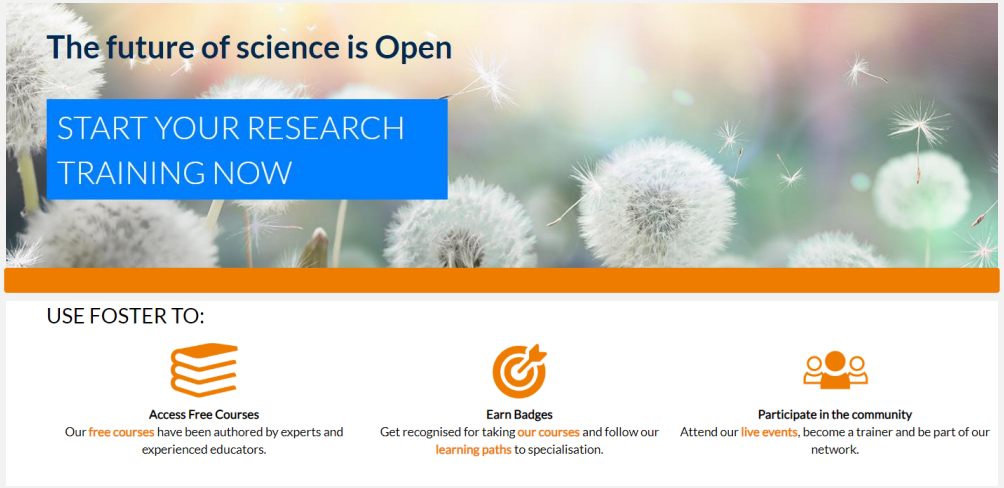
Open Science training

Aim: Cultural change towards Open Science

offline & online

https://www.fosteropenscience.eu



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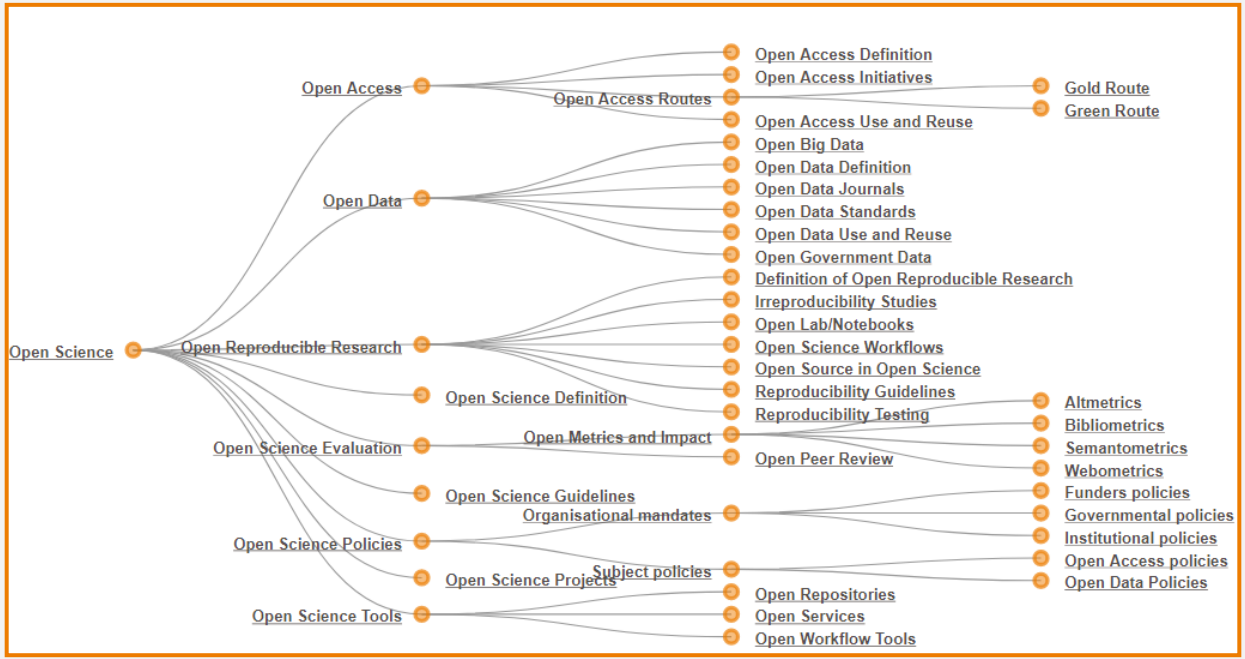
Materials to re-use



Paper available at http://oro.open.ac.uk/44719/. Image available at http://oro.open.ac.uk/47806/

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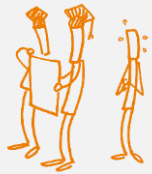
Open Science courses to re-use

What is Open Science?	Best Practice in Open Research	Open Access Publishing	Open Peer Review	Sharing Preprints
				
Data Protection & Ethics	**Open Source Software & Workflows**	**Managing & Sharing Research Data**	**Open Science & Innovation**	**Open Licensing**

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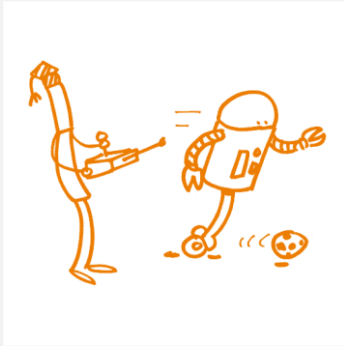
Open Science courses

Answering burning questions of researchers

Where relevant, discipline specific examples (CRG, GESIS, DARIAH-EU)



Interactive content (gamification, quizzes)

Reviewed by community

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Badges

5 learning paths

Effort 2-4 hours

Complete a set of courses & get a badge

https://www.fosteropenscience.eu/learning-paths

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Learning paths

The Reproducible Research Practitioner

The Open Peer Reviewer

The Open Access Author

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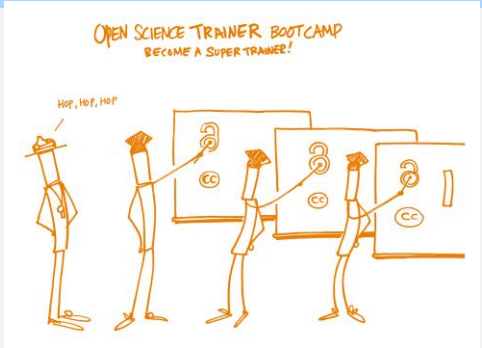
Training the trainers



Multiplier effect: 7 trainer bootcamps

http://www.eifl.net/blogs/diy-open-science-training

Building a community of trainers

https://www.fosteropenscience.eu/speakers-directory

Resources to support trainers community

→ Open Science Training Handbook

Living book open for contributions & translations
https://book.fosteropenscience.eu/en/
https://book.fosteropenscience.eu/es

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Open Science Basics

Open Concepts & Principles

Open Access to Published Research Results

Open Science Policies

Open Licensing & File Formats

Open Research Data & Materials

Open Peer Review, Metrics & Evaluation

Reproducible Research & Data Analysis

Open Research Software & Open Source

Open Education Resources

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https://book.fosteropenscience.eu

Open Science Basics (2)

What is it?

Why is it important?

Learning objectives to achieve

Key components: Knowledge & skills

Questions, obstacles, & common misconceptions

Further resources

https://book.fosteropenscience.eu

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On Learning and Training

How to

- Prepare your workshop
  - Theoretical learning strategies
  - Different audiences
  - Strategies to develop motivation
- Execute your workshop
  - How to design a course
  - How to choose content
  - How to start training
- & reflect on your workshop
  - Aspects to evaluate

Organisational Aspects

- Venue
- Timing & budget
- Equipment & media
- Marketing & advertising strategy
- Registration
- Evaluation

→ Check list

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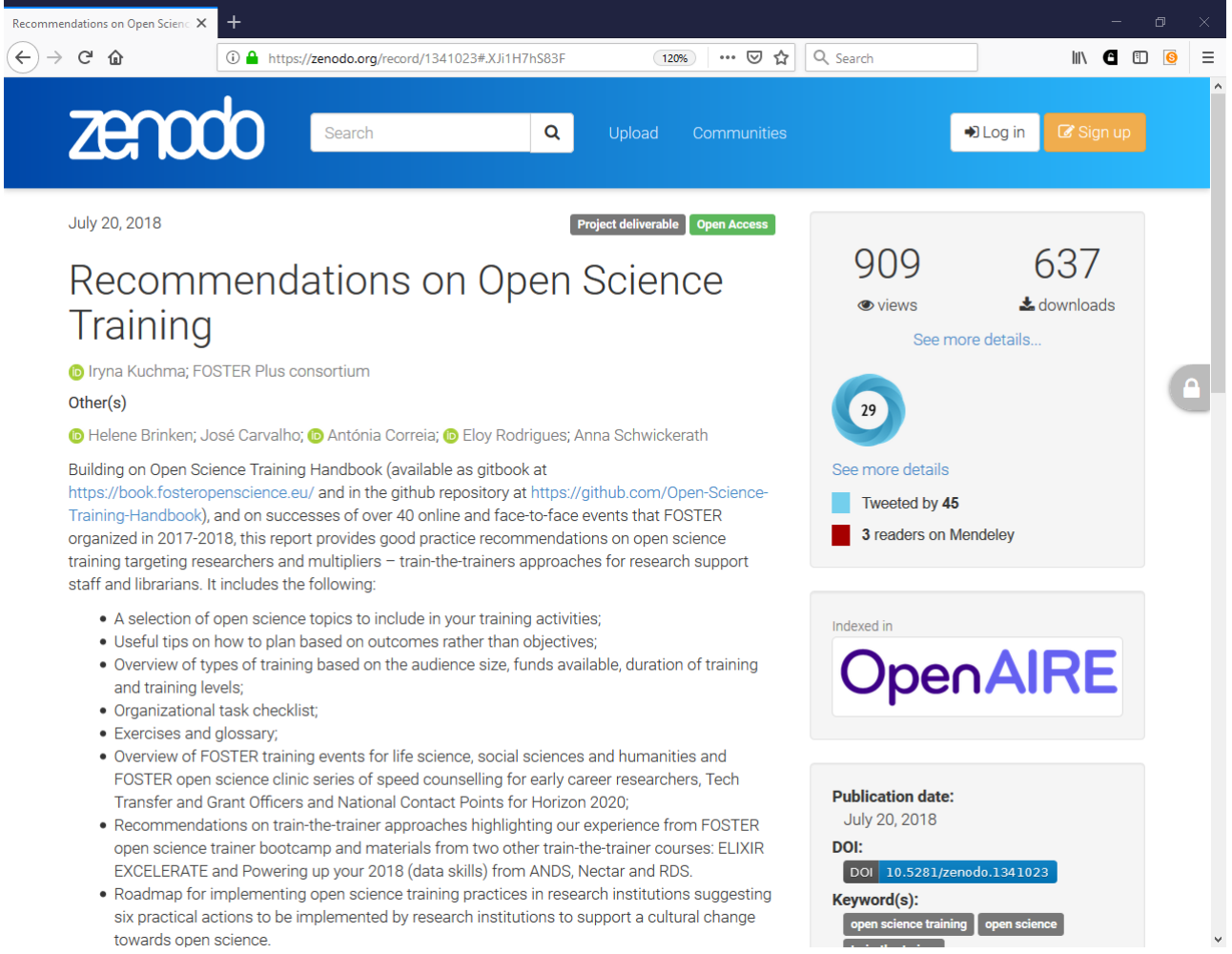
Example training outlines

- 24 exercises:
  - Format, time needed, topic, learning objectives, description, materials needed, level of prior knowledge, how to adapt
- Open Science Café
  - Enable low-threshold discussion and dialogue between different stakeholders

CC BY Martine Oudenhoven

www.fosteropenscience.eu/content/organise-your-own-open-science-cafe



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10.5281/zenodo.1341022

Roadmap for Implementing Open

https://zenodo.org/record/1209175#.XJi4q7hS83F 120% Search

March 28, 2018

Project milestone Open Access

Roadmap for Implementing Open Science Training Practices in Research Institutions

Brinken, Helene; Jones, Sarah; Oudenhoven, Martine; Davidson, Joy

Other(s)

FOSTER Plus consortium

In this policy briefing FOSTER outlines six practical actions to be implemented by research institutions to support a cultural change towards Open Science.

Preview

Page: 1 of 2 Automatic Zoom

621 views 246 downloads

See more details...

26

See more details

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Tweeted by 24
On 2 Facebook pages

1 readers on Mendeley

Indexed in OpenAIRE

Publication date:
March 28, 2018

DOI:
DOI 10.5281/zenodo.1209175

Grants:
European Commission:
- FOSTER Plus - Fostering the practical implementation of Open Science in Horizon 2020 and beyond (741839)

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10.5281/zenodo.1209175

Roadmap for Implementing Open Science Training Practices

Integrate open science content in researcher training by **embedding training modules focused on practical skills into ongoing educational programmes on a regular and standardized basis from as early as possible.**

Tailor open science resources to research disciplines.

10.5281/zenodo.1209175

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Roadmap for Implementing Open Science Training Practices (2)

Support and promote open science skills acquisition. The young generation of scientists and researchers is a major audience for training. Supervisors and researchers guide their mentees and are therefore an important target group to recognize the value of open science training, too.

10.5281/zenodo.1209175

Roadmap for Implementing Open Science Training Practices (3)

Recognize and reward open science skills.

Students and researchers are more likely to make an effort to gain skills if these are deemed relevant for their career progression. Stakeholders across the research lifecycle should reward early career researchers by including open science practices in evaluation processes and awarding efforts with credits or other formal certificates.

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10.5281/zenodo.1209175

How do you know if you are making a difference?

4 simple questions to evaluate the efficacy and impact of training

- Did you apply the knowledge and skills gained at the training to your work?
- If no, why didn't you apply the knowledge and skills you gained at the training?
- If yes, what changes did you make to your practice as a result of the training? What impact has the training had on your working life and practices?

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Thank you! Questions?

Facebook: @fosteropenscience

Twitter: @fosterscience

Youtube: FOSTER Open Science

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 741839

THANKS!

Questions?

Please put them in the chat box.

Slides and a recording will be sent to all registered delegates.

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