



Open Science Training *for Library Staff &* Researchers

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450

libraries

**DEVOTED TO
OPEN SCIENCE**

Favouring policies, tools and infrastructures which reshape research processes and mindsets in favour of Open.

ONE

mission

**WORLD-CLASS
RESEARCH**

Providing knowledge and training so that libraries can support outstanding research and – by extension – the growth and sharing of knowledge.





Vision:
LIBER
Strategy
2018-2022

- **Open Access** is the main form of publishing.
- **Research Data is Findable, Accessible, Interoperable and Reusable (FAIR).**
- **Digital Skills** underpin a more **open and transparent** research life cycle.
- **Research Infrastructure** is participatory, tailored and scaled to the needs of diverse disciplines.
- **Tomorrow's cultural heritage** is built on today's digital information.

Network Driven Innovation



Training Overview

Through Working Groups
and as a partner in
funded projects, LIBER
provides:

- Case Studies
- Webinars
- Leadership Seminars
- Workshops
- Factsheets
- Surveys
- Reports & roadmaps
- Open Science
Bootcamps



Digital Skills Working Group



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Director of Studies,
Enssib (Ecole nationale
supérieure des sciences
de l'information et des
bibliothèques, France)



The knock-on effect of the advance of Open Science is a **serious skills gap**. Library staff and researchers need more training.

LIBER's Digital Skills Working Group

<https://libereurope.eu/strategy/digital-skills-services/digitalskills>



Digital Skills Critical Questions

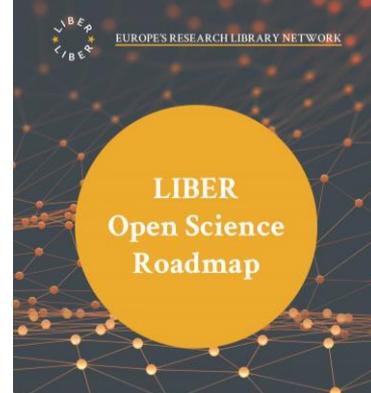
- **What should we expect from new professionals** emerging from library and information science schools?
- **How do we include non-librarian professionals** such as researchers, computer science or data visualization engineers in library services?
- **How can we train research librarians** to establish and share new skills, and to support research activities more efficiently?

Open Science Roadmap

Focus Areas

- Scholarly Publishing
- FAIR Data
- Research Infrastructures & the EOSC
- Metrics & Rewards
- Open Science Skills
- Research Integrity
- Citizen Science

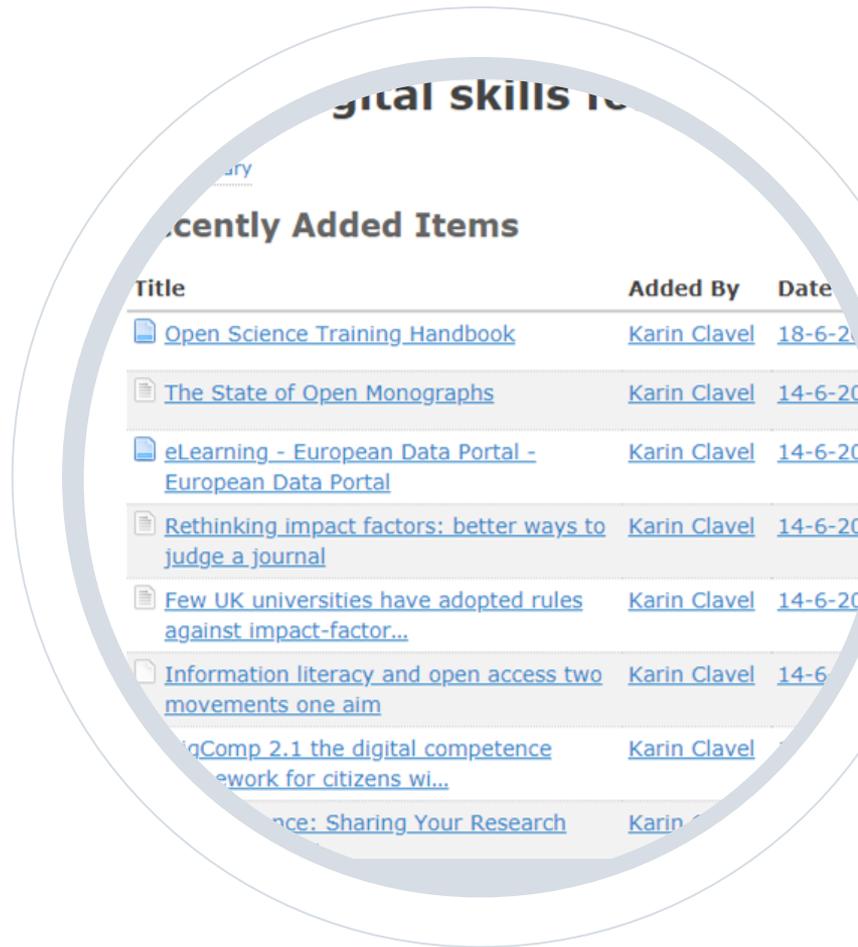
<https://zenodo.org/record/1303002>



Sharing Useful References

- Training resources
- Articles
- Frameworks

https://www.zotero.org/groups/2340674/liber_digital_skills_for_open_science



Open Science Training Case Studies

- Inspiring methods, practices, contacts and words of wisdom.
- Institutional cases, national initiatives and European project approaches.

2019 Survey and interviews; first case studies published (Denmark, Hungary, Luxembourg, Norway, Poland, Switzerland); <https://zenodo.org/record/3251731>

2020 Continue collecting and publishing case studies, with the ultimate goal of providing an overall analysis.



Workshops

Sharing & Learning Together

- Two workshops held at the 2018 and 2019 LIBER conferences, in collaboration with the FOSTER+, SSHOC projects
- Discussed: which skills are needed, best practices for training, related challenges



Open Science Training Case Studies

Give time for training.
Give responsibility to share new knowledge and skills. Make it a team challenge.

(EPFL Library, Switzerland)

Keep stakeholders informed and collaborate with them to make sure the project is well embedded and supported within the institution.

(University of Oslo Library, Norway)

The main challenge, given the heterogeneity of data and research practices, is the provision of discipline specific open science skills.

(University of Warsaw, Poland)

Insights So Far

Challenges

Lack of awareness among librarians, researchers for the need to develop new skills.

Time needed to develop new skills, systems, frameworks.

Little or no budget available to do the work.

Training materials are hard to find.

Institutions need to be persuaded that training is needed.

Best Practices

Project objectives should be well defined.

Hire people from other disciplines to bring fresh perspective and skills.

Ideally work as a team because one person cannot do it all.

Link to institutional, national and European guidelines when deciding which skills to prioritise.

Don't reinvent the wheel. For example, **EU funded projects** provide results and resources which you can reuse.

Digital Skills for Library Staff & Researchers Working Group

Menu

Strategy 2018-2022

Strategic Directions

Innovative Scholarly
Communication

Digital Skills & Services

Research Infrastructure

Working Groups

Architecture

Copyright & Legal Matters

Digital Humanities & Digital
Cultural Heritage

Digital Skills

Innovative Metrics

Leadership Programmes

Linked Open Data

Open Access

Research Data
Management

Previous Strategies

2013-2017

Which new skills are needed by library professionals? What training is required in order to better support research activities?

These and other skills-related questions are being examined by this working group. The group operates as part of LIBER's Strategic Direction on [Digital Skills & Services](#), which in turn is one of the key pillars of our [2018-2022 Strategy](#).

The Context

In a rapidly changing digital world, libraries are regularly re-assessing existing services and offering new ones to support the work of both faculty (research) and students (education).

The advance of Open Science in particular has meant a reinvention of models, ways of working and techniques. This is, in itself, positive but the knock-on effect is a serious skills gap. Library staff and researchers need more training in order to be able to cope with a myriad of topics: electronic resource management, data access, blockchains, and text and data mining, to name a few.

This raises a number of questions related to careers and competencies:

- What should we expect from new professionals emerging from library and information science schools?
- How do we include non-librarian professionals such as researchers, computer science or data visualization engineers in library services?
- How can we train research librarians in order to establish and share new skills and to support research activities more efficiently?

Librarians with up-to-date digital skills can provide invaluable support to library users, and will personally benefit from better career prospects.

Priorities

- **Priority #1:** Develop an educational programme which will develop the digital skills of library staff members and researchers.
- **Priority #2:** Hold a workshop at LIBER 2019 focusing on Open Science skills, in



<https://libereurope.eu/strategy/digital-skills-services/digitalskills>

What else is LIBER doing on training?

SSHOC SSH Training



Social Sciences and Humanities Community Building: Training

SSHOC pools and harmonises the tools and services that unlock heterogeneous SSH data collections across Europe. This makes data easy to process, enrich, analyse and compare.

Our SSH training activities



Training events

Enrich your knowledge! Treat yourself to a SSHOC training event. On- and offline. All around Europe. You choose!



Training materials

Join our training community and be the first to know about new training materials, exercises and practical case studies.



Train-the-trainer toolkit and bootcamps

Use our resources to support your work as a trainer in the SSH field.



Training community

List your institute as a training hub, meet your SSH-trainer colleagues, and deliver SSH training using our new materials.

• OPEN SCIENCE FAIR • Porto, 16-18 September 2019

Contact us

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Empowering Users, Building Expertise

Join our Social Sciences and Humanities training community to engage with other SSH trainers, get a sneak preview of new training materials, such as our train-the-trainer toolkit, and volunteer to host one of our workshops.

Register at sshopencloud.eu/join-ssh-training-community



INOS Citizen Science Training

Co-creation of
knowledge and co-
development of
innovation!

Integrating Open and Citizen Science Into Active Learning Approaches in Higher Education

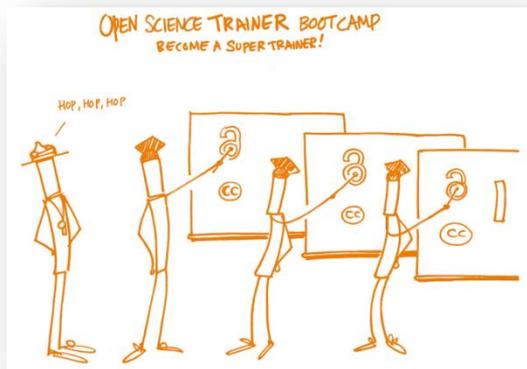
An Erasmus+ project

- **Evidence-based overview** of trends;
- Creation of a **learning-design framework**;
- **Open Knowledge & Innovation Activities** (e.g., datathons, hackatons, dotmocracy workshops, Innovation sprint);
- **Upskilling** through the production of at least **15 learning and training resources**.

<https://libereurope.eu/our-activities/projects/inos>

FOSTER Research Training

- Open Science **Training Toolkit**
- **Badges** for taking courses, following learning paths
- **Trainers Directory** and **resources for trainers** (illustrations, handbook, presentations).



Questions?

Talk to
Us!



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September 10, 2019 (v1)

Presentation

Open Access

View

LIBER Webinar - Innovating The Ways Metrics Are Applied, Responsible Metrics & Measuring Openness

Charlotte Wien; Isabella Peters; Sarah Slowe;

How can we measure the state of openness of research? Why are responsible research indicators important? What role do institutional managers play in adopting them? Among others, these questions were discussed in this webinar hosted by Charlotte Wien, Head of LIBER's Innovative Metri

Uploaded on September 10, 2019

June 4, 2019 (v1)

Presentation

Open Access

View

LIBER Webinar: Overview and Implementation of Europe's New Copyright Legislation

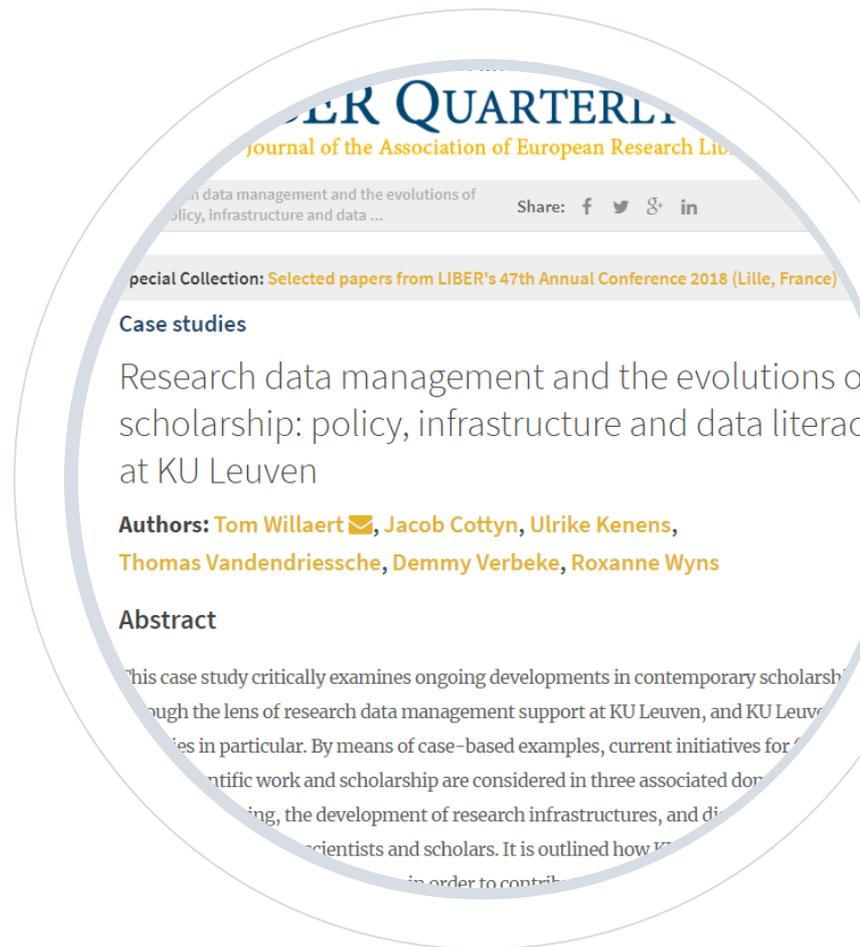
White, Benjamin; Talke, Armin; Holm, Jonas;

What does Europe's new Copyright Directive mean for your library? In this webinar, LIBER's Copyright & Legal Matters working group will go over the key points of the Directive, expanding on the points in this blog post. We will also look at the implementation of the Copyrigh

Uploaded on June 4, 2019

LIBER Quarterly

- Open Access journal
- No APCs
- Peer reviewed
- Archived
- Listed in directories, discovery systems, citation databases



LIBER Website

We maintain a **resources** page, which lists our most important results, publications etc.

<https://libereurope.eu/resources>

Resources

LIBER regularly produces factsheets, reports and our most important updates and results.

You can keep up with the latest LIBER news by signing up to our newsletter, or following us on social media. We also have a peer-reviewed, open access journal which seeks to cover all aspects of digital rights.

Copyright & TDM

- IMPLEMENTATION GUIDANCE – [Europe's New Copyright Directive and Universities?](#) (2019)
- OPEN LETTER – [LIBER Calls for the Deletion of Copyright Exceptions](#)
- OPEN LETTER – [Europe Needs A Broadband Strategy](#)
- UPDATE – [European Copyright Reform: A Call For Action](#) – Copyright