



Upskilling & Training *for Libraries*

The LIBER role and perspective

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In collaboration with
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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.



LIBER OS Roadmap

Open Science Skills Recommendations

- Coordinate with partners to provide a **multidisciplinary one stop-shop** which supports researchers in Open Science workflows.
- Incorporate Open Science skills in the **academic training programmes** of students.
- Provide **innovative digital training materials** and courses to support (and monitor) skills development.
- **Build on your library's expertise** to organise relevant new skills and competencies across the Open Science spectrum.

Network

*Leadership programmes for current and emerging leaders in libraries

*WGs producing knowledge

*Large webinar programme

*WG on Digital Skills for library staff and researchers

*Collaboration in funded projects

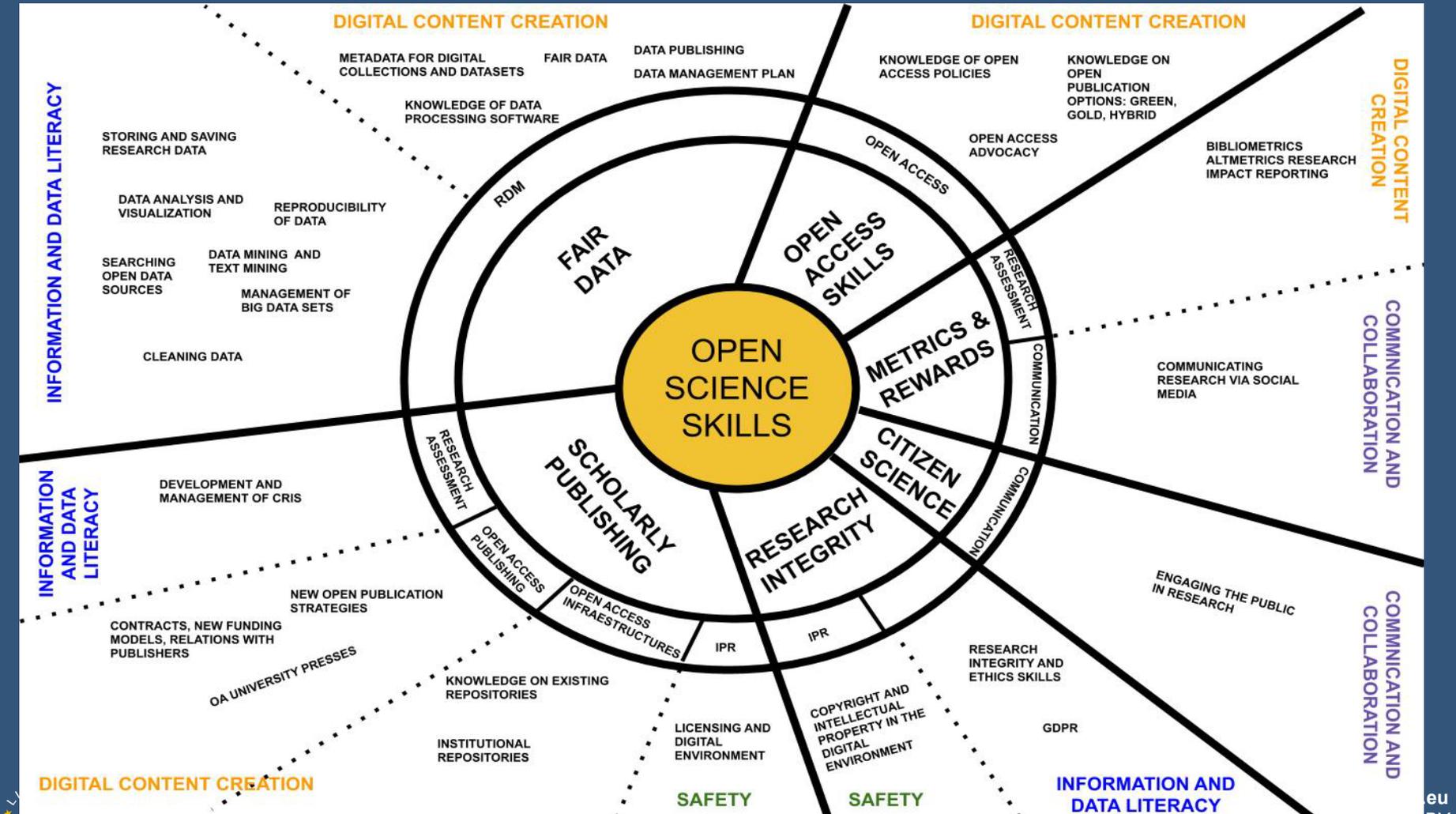




The knock-on effect of the advance of Open Science is a **serious skills gap**. Library staff and researchers need more training.

LIBER's Digital Skills Working Group

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





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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?

Taskforce Open Science Skilling Initiatives in Europe

Sketching the landscape of inspiring methods, practices, contacts and words of wisdom, covering institutional cases, national initiatives as well as European project approaches.

2019

Online survey and interviews

First publication and presentation of selected case studies

Denmark, Hungary, Luxembourg, Norway, Poland, Switzerland

2020

Continue with collecting answers and publishing case studies

Producing a global factsheet and analysis



LIBRARIES
SUPPORT
THE ENTIRE
RESEARCH
PROCESS



1. PLANNING

- Develop Data Management Plans for researchers in their implementation
- Develop and provide training in data management
- Help researchers create persistent identifiers (ORCID, etc.)
- Provide information on possible options



6. REUSING

- Raise awareness and provide training about reuse requirements
- Promote reuse with copyright and contract management, and through the use of Creative Commons licenses



5. ASSESSING

- Participate in projects and pilots to learn about next-generation metrics
- Advance the adoption of next-generation metrics



4. PUBLISHING

- Encourage researchers and students to use Institutional Repositories for publishing
- Provide training in Open Access publishing and the requirements of publishers

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Cultural Change

Libraries can raise **awareness**, provide **training**, open **research collections** to innovative research methods and develop **supportive policies** and **infrastructures**.

I am advocating would be a giant cultural shift in science, a second open science revolution extending the first open science revolution, of the 17th and 18th centuries.⁴

Reflecting a commitment to Open Science across all services. Provide a certified repository. Create a data catalogue. Publish content with a machine-readable license. Use open APIs to provide access to library services. Develop intelligent tools to automate metadata production and support FAIR data management during the entire data life-cycle. Ensure that contracts with publishers are transparent.

Sharing inspiring examples. Highlight your own library's successes and those of Open Science champions from across the community.

⁴

Bartling, S., & Friesike, S. (2014). *Towards Another Scientific Revolution*. Available at http://dx.doi.org/10.1007/978-3-319-00026-8_1

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- Provide information on the possibilities

3. MAINTAINING

- Ensure that data is accessible by supporting the use of Open Access identifiers, metadata, and training in programming languages and in using high computing resources
- Develop infrastructures: Institutional Repositories for publications and data, ontologies and other tools to describe content

Cultural Change

Libraries in the EOSC:
They serve as **pivotal intermediary stakeholder group/trainers** that brings in the voice of the end-user base from the bottom-up.

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Embracing Open Science is critical if we are to make science more collaborative, reproducible, transparent and impactful.

LIBER Statement on the EOSC Declaration

LIBER, the Association of European Research Libraries, supports Open Science for contributing to an increased dissemination, reproducibility and application of research results, and to the acceleration of new knowledge generation through data-driven innovation.

LIBER fully endorses Open Science as the basis of its research strategy and its mission to create an ecosystem of Open Science, making Open the default standard for research practice in Europe and beyond.

LIBER endorses those governments across Europe in the process of implementing Open Science – notably, regarding, not least, open access – to ensure a smooth transition to data creation, dissemination and preservation, data storage and the public, and to ensure the application of FAIR principles to research.

In facilitating the interaction and data exchange between researchers, it fosters problem-solving and innovation. LIBER also supports research in knowledge for social research.

In these contexts, LIBER strongly promotes the principle of academic freedom, built on the self-governing nature of the research process and supported by suitable academic freedom of the institutions leading the research, research freedom and national capabilities.

The research and Open Science policy is grounded in the existing legislation and the existing academic freedom.

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About LIBER

LIBER is the Association of European Research Libraries. It is a non-profit organisation that represents the interests of research libraries in Europe. LIBER's mission is to promote the development and use of research libraries in Europe, and to ensure that they are able to provide the best possible service to their users. LIBER is a member of the International Association of Agricultural Librarians and Documentalists (IADL) and the International Association of University and Research Libraries (IAUL).



LIBER's Open Science Roadmap (2018)
<https://zenodo.org/record/1303002>



Participating in EU Projects towards making **Open Science** the default



Participating in EU Projects towards making **Open Science** the default

- Uncovering library role as **intermediaries** and **trainers**
- Bringing in the EOSC the means **to involve end users** through their function/position
- Participate in the discussion on **competences and training** needed to support Open Science and the EOSC.
- Librarians' high participation in the FOSTER **Trainer** Bootcamps
- SSHOC is organizing several **awareness raising and training activities**, both generic and more focused, targeting and involving libraries. Also: **Trainer Bootcamps and SSH Trainer Network**.
- INOS: Concrete activities in academic libraries for the **co-creation** of knowledge and material on practicing open science and citizen science **to be integrated in HEI curricula**





Thanks!

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