OPEN SCIENCE FAIR

UNESCO-LIBER hands-on workshop on adopting, adapting and taking advantage of the open science Recommendation toolkit

Organisers: LIBER Europe, UNESCO

Monday 25 September 2023

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This workshop aims to:

- bring together and empower open science communities and services: this is the very spirit of this workshop where people exchange ideas and build their pathways to implementing the UNESCO Recommendation on Open Science Principles, Values and 7 Areas of action
- identify common practices related to open science: use and share practices under the framework of the international UNESCO recommendation on Open Science, discover the example of the LIBER Strategy regarding Open Science, small groups of discussion and wrap-ups to share outputs, challenges and words of wisdom
- see what the best synergies are to deliver and operate services that work for many : sharing experience and reflecting on pathways for action is an effective way for fostering and enhancing synergies

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The key learning outcomes will be:

1. discovering and adapting the UNESCO Open Science Toolkit
2. discovering the LIBER Strategy regarding Open Science and taking possible inspiration from it
3. taking inspiration from the shared open science roadmap or strategy by other participants
4. taking this opportunity to start developing/adapting the framework of OS skills and competencies for and with UNESCO
5. drafting or gathering elements for initiating, developing or enhancing an institutional or collaborative strategy for concrete action, training and capacity building

Have a look at the workshop programme here and the workshop take home notes here.

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Welcome to the

UNESCO – LIBER

Hands-on workshop on adopting, adapting and taking advantage of the Recommendation on Open Science toolkit

https://www.opensciencefair.eu/workshops/unesco-liber-hands-on-workshop-on-adopting-adapting-and-taking-advantage-of-the-open-science-recommendation-toolkit

https://www.unesco.org/en/open-science - *https://libereurope.eu/strategy/*

http://opensciencefair.eu/images/OSFair%202023/LIBER-UNESCO_workshop_programme.pdf

http://opensciencefair.eu/images/OSFair%202023/LIBER-UNESCO_take-home_notes-update.pdf

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Dr Ana Peršić is Programme Specialist at the Section of Science Technology Innovation Policy at the UNESCO Headquarters in Paris.

An ecologist by training (Master in Ecological Sciences at the University of Padova, Italy and PhD in Ecotoxicology at the University of Paris South, France), Dr Ana Peršić joined UNESCO in April 2006 as Assistant Program Specialist serving the UNESCO's Man and the Biosphere Programme within the Division of Ecological and Earth Sciences. She then served as Science Specialist at the UNESCO Liaison Office in New York from 2011 to 2018.

Her work relates to strengthening the science-policy interface and the promotion of science technology and innovation in the implementation of the Sustainable Development Goals. Since 2019 her focus has been on open science – she coordinated the development of the UNESCO Recommendation on Open Science and is currently working towards its implementation.

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Julien Roche is University Librarian, Director of libraries and Learning center at université de Lille, France. He is also Chief research data officer for the university of Lille.

In July 2018, he was elected as LIBER Vice-President. In July 2022, he was approved as LIBER President.

Julien Roche also has several national responsibilities including co-chair of the “European and international” college of the French Open Science Committee since July 2018.

https://orcid.org/0000-0003-4000-2791

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Cécile Swiatek Cassafieres is Director of the library at université Paris Nanterre, France.

She is member of the Executive Board of the European league of research libraries (libereurope.eu) and SPARCEurope.

Expert on both the UNESCO Recommendations on OER (2019) and Open Science (2021), she is an expert with the French National Open Science Fund (FNSO, Calls for projects and SCOSS) and as an independent expert with the UNESCO's global partnership on Open Science since 2023.

https://fr.linkedin.com/in/cecileswiatek / https://orcid.org/0000-0003-1066-4559

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Martine Pronk is Executive Director of the LIBER Office.

She previously worked as head of Academic Services and a member of the senior management team at Utrecht University Library, The Netherlands. In this role, she had strategic responsibility for research and education support services, including in the field of Open Science.

Martine represented Utrecht University and University Library in several national and international networks: the Dutch implementation network Digital Competence Centers, the LERU Information and Open Access Policy Group, and the European Open Science Cloud Association. At Utrecht University she co-led the Track Open Access for the Open Science Programme.

https://libereurope.eu/member/martine-pronk/

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Workshop schedule in a nutshell

1. set of three 5-mn presentations : workshop introduction, UNESCO, LIBER

2. participants' input about Open implementing an Open Science strategy at an institutional/network level : main challenges and pitfalls

3. two break-out groups rounds : small groups of discussion working on how to take advantage and implement the UNESCO's recommendation on Open science Principles, Values and 7 Areas of action in the institutions and networks

4. wrap-up, concluding remarks and farewell

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Context / Challenges and Pitfalls

The **UNESCO** Recommendation on Open Science was adopted by the General Conference of UNESCO at its 41st session, in November 2021.

A UNESCO Open Science **Toolkit** is being published (website and zenodo).

Member States will be asked to report their activity to UNESCO (Open Science **Monitoring Framework**).

LIBER provides many OS **training** and **support** material.

LIBER is working on Open Science **indicators** and dedicated a Steering Committee to « **Advancing Open Science** » topics in its current strategy.

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Presentation statistics

495		21
Votes	Most popular reaction	Participants

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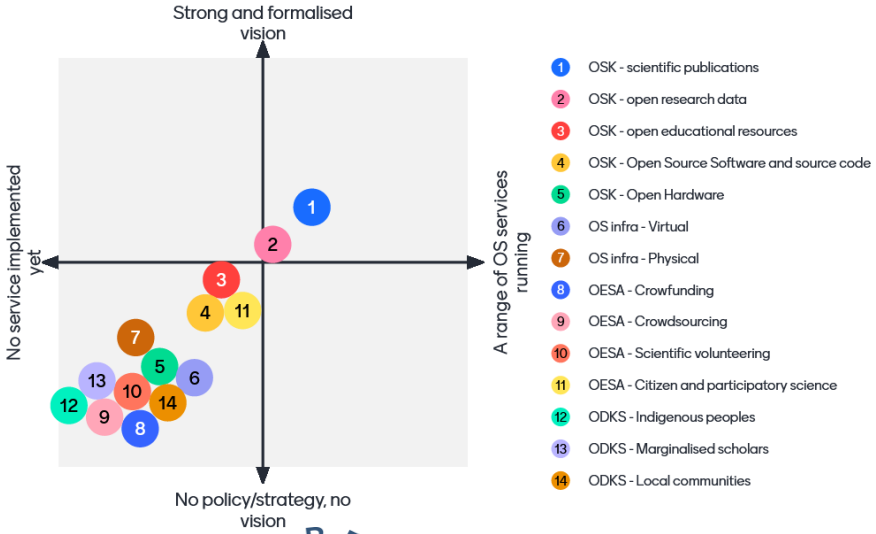
Open Science implementation : where are you at?



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Challenges (and pitfalls)

23 responses

Human resources	Changing mindset	Researcher uptake and culture change	A diversity of opcions that are not frecuent in my country	Researchers reluctant to learn new
Skills and capabilities	Academic model	Bureaucracy, funding, culture	Non user friendly system to achieve green open access	Sustainable solution
Lack of human resouces and lack of long term funding	Developing friendly tools for researchers	Resources		Ethics review, finding committee, arranging assessments before starting research
Traditional view of science	Funding to allow sustainbility	Finding consense		
Sustainability	Legal challenges	Technical challenges, to many different repositories and issue with researchers...		
Resourses	Communication of our resourced	Bureaucracy		

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LIBER – UNESCO

TAKING ADVANTAGE OF THE OPEN SCIENCE RECOMMENDATION TOOLKIT

Julien ROCHE
LIBER President

@libereurope

@LIBEReurope

420 libraries

ONE mission

DEVOTED TO OPEN SCIENCE

Policies, tools and infrastructures - reshaping research processes and mindsets in favour of Open.

WORLD-CLASS RESEARCH

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

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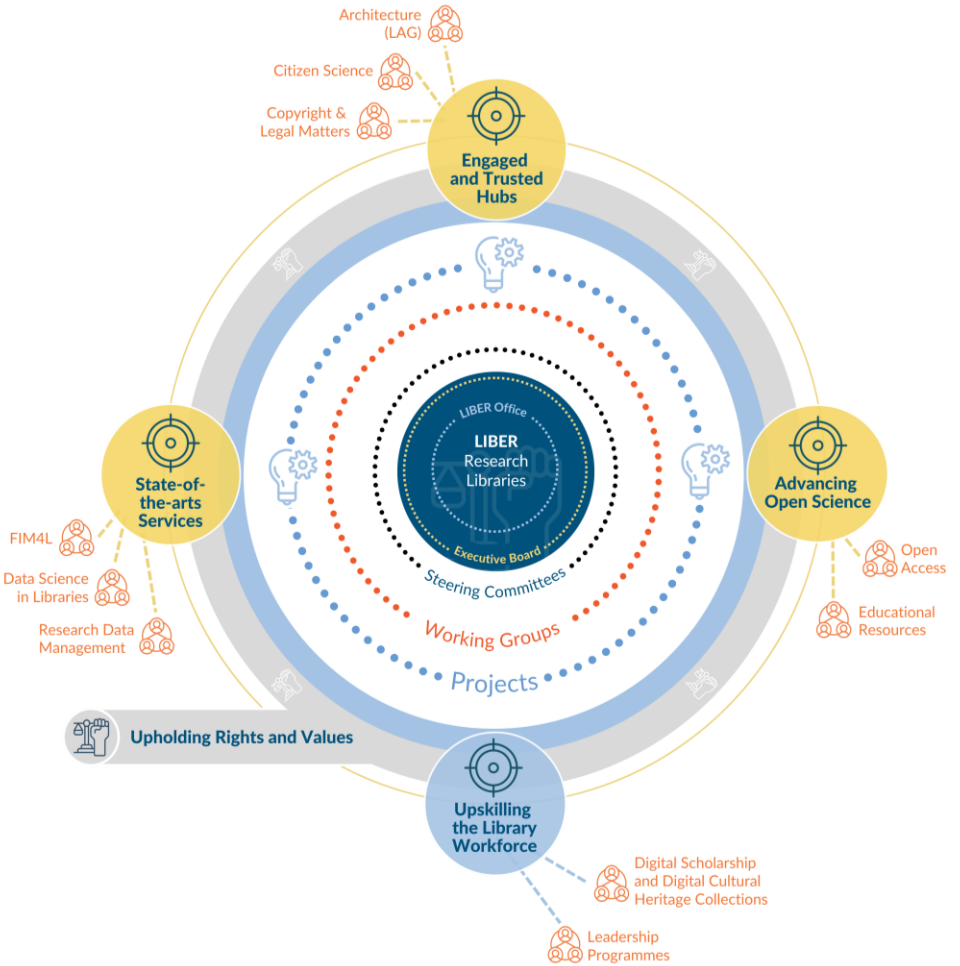
Research libraries in 2027 - Innovation Through Collaboration



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Global Partners

Speaking up with other library and research organisations for **common values** and collaborating on **projects** and **strategic issues**.

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Main Activities

Networking | Learning | Training | Advocacy

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Advocacy

Putting the priorities of research libraries and their users on the European policy agenda.

- Instrumental in achieving a **TDM exception** for research
- Served on the EC's **Open Science Policy Platform**
- Called for better policy making procedures for education and science within the **Digital Services Act.**
- Provide **guidance** so that libraries can advocate on a local and national level

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Conferences & Events

Winter Event

Launched in 2022. Two days of dynamic, forward-looking sessions designed for and by the LIBER network.

- Florence, Italy - 23-24 November 2023

Annual Conference

Attended by 400+ research library professionals. *Keynote Speakers. Workshops. Social Events.*

- Limassol, Cyprus – 3-5 July 2024

Architecture Seminar

To further the exchange of experience between librarians and architects raise awareness of new projects and trends.

- Brussels, Belgium - 24 April 2024

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Leadership Seminars

LIBER Journées

For existing library directors, forging bold new strategic paths.

- Berlin, Germany – 29-31 May 2024

Emerging Leaders

For the next generation of library leaders: classroom and action learning and a mentorship.

- 2025 - 2026

LIBER JOURNÉES

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Resources

Sharing insights and providing guidance on trends and current issues.

- Peer-reviewed journal
- Reports
- Factsheets
- Webinars
- Best-practices
- Presentations

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Section 1
CITIZEN SCIENCE SKILLING FOR LIBRARY STAFF, RESEARCHERS, AND THE PUBLIC
Section Editor Jitka Stilund Hansen
From the LIBER Citizen Science Working Group

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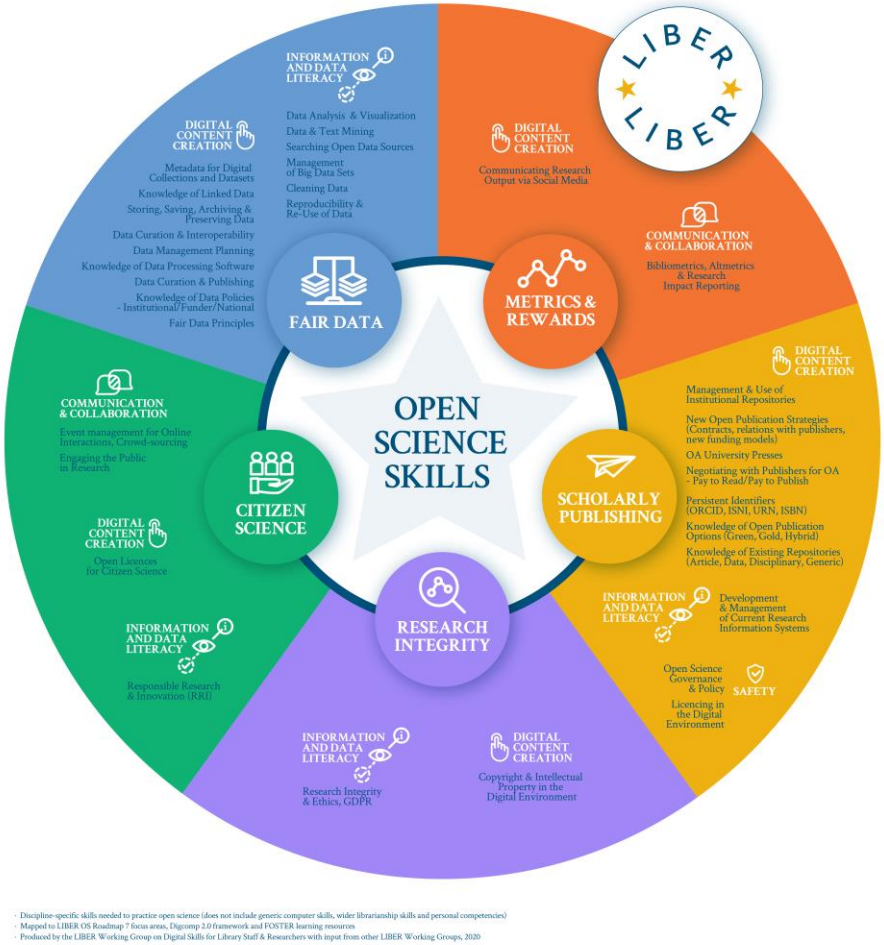
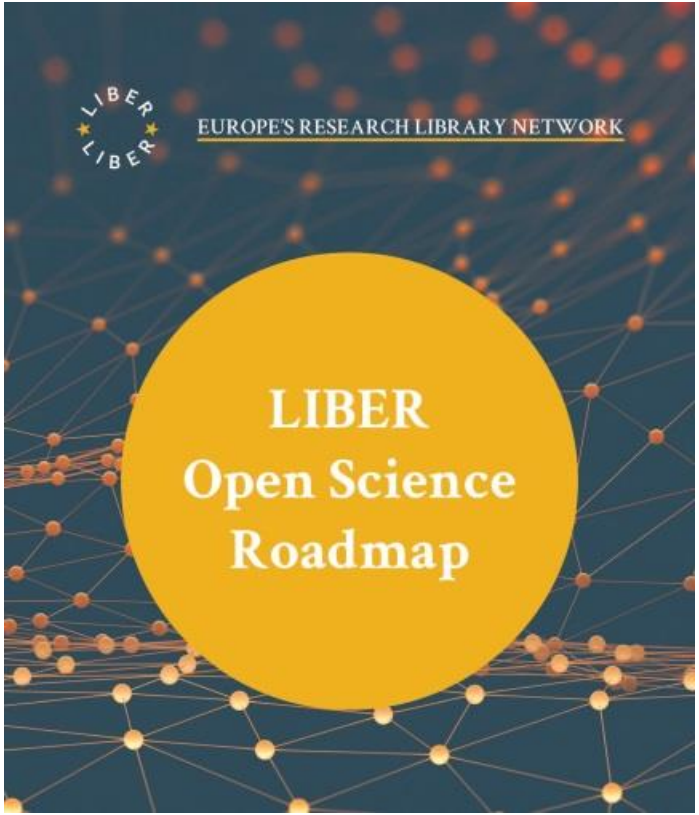


- Discipline-specific skills needed to practice open science (does not include generic computer skills, wider librarianship skills and personal competencies)
- Mapped to LIBER OS Roadmap 7 focus areas, Digcomp 2.0 framework and FOSTER learning resources
- Produced by the LIBER Working Group on Digital Skills for Library Staff & Researchers with input from other LIBER Working Groups, 2020



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Webinars and publications

On our website : https://libereurope.eu/webinar-recordings/

On our youtube channel :
https://www.youtube.com/user/libervideo

On our Zenodo community page :
https://zenodo.org/communities/liber-publications

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International Projects

We bring to projects the strengths and expertise of our network, in areas such as:

- Leading the uptake of **Open Science** practices
- Promoting **Innovative Scholarly Communication**
- Supporting the development of **digital skills** and associated training activities
- Fostering the development and use of **research (e)infrastructures and services**

DIAMAS

The CeOS Project
Citizen-Enhanced Open Science
Southeastern Europe

LibrarIN

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Next event – Tuesday 3rd October 16:00-17:30

Finland, France, and OpenAIRE OS monitors - Live on https://www.youtube.com/user/RepositoriosLA

https://libereurope.eu/event/open-science-monitoring-in-europe-a-liber-unesco-and-la-referencia-webinar/
https://www.lareferencia.info/es/component/k2/item/311-monitoreo-de-la-ciencia-abierta-europa

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Thank you

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UNESCO Open Science Toolkit : Supporting the implementation of the UNESCO Recommendation on Open Science

Ana Persic, UNESCO

Global importance of science

Achieving SDGs and **overcoming the global challenges** require an **efficient**, **equitable, transparent, collaborative and inclusive science,** that can lead to innovative and sustainable solutions.

Everyone has the right to freely share in scientific advancement and its benefits.

Article 27 of the Universal declaration on Human Rights

Need for science to be more **connected to societal needs** and **more accessible for all**.
Need to **bridge the STI gaps** between and within countries.

Why a UNESCO Recommendation on Open Science ?

- **Need for a common definition of open science**
- **Need for a shared set of values and principles**
- **Need for an international policy and action framework**

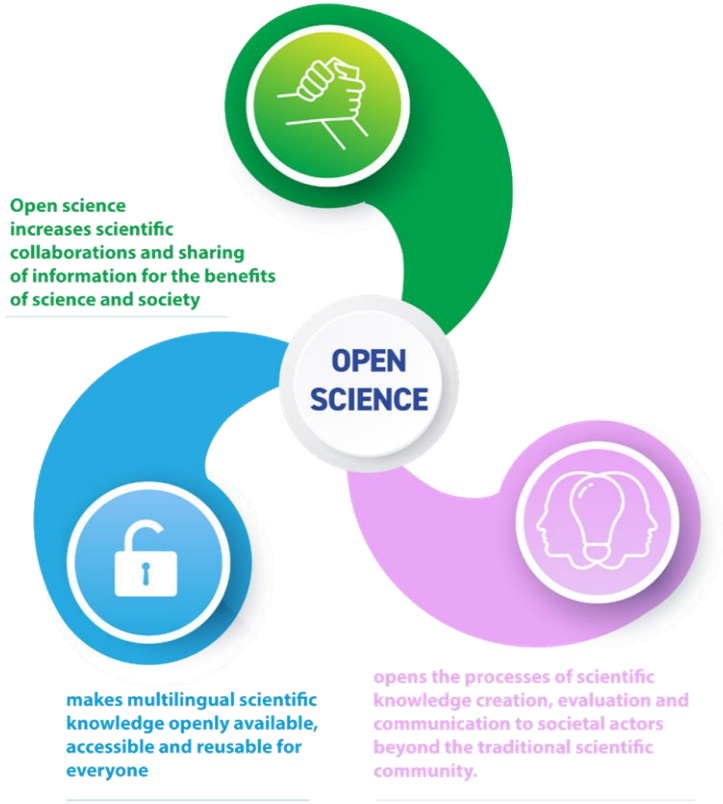
In 2021, at the UNESCO 41st General Conference, 193 Member States adopted the first international standard-setting instrument on open science.

UNESCO Recommendations:
Legal instruments that formulate **principles and norms** for the international regulation of a particular issue.
Inviting Member States to take legislative or other steps required in conformity with the constitutional practice of each State and the nature of the issue, to apply the principles and norms aforesaid within their respective territories.

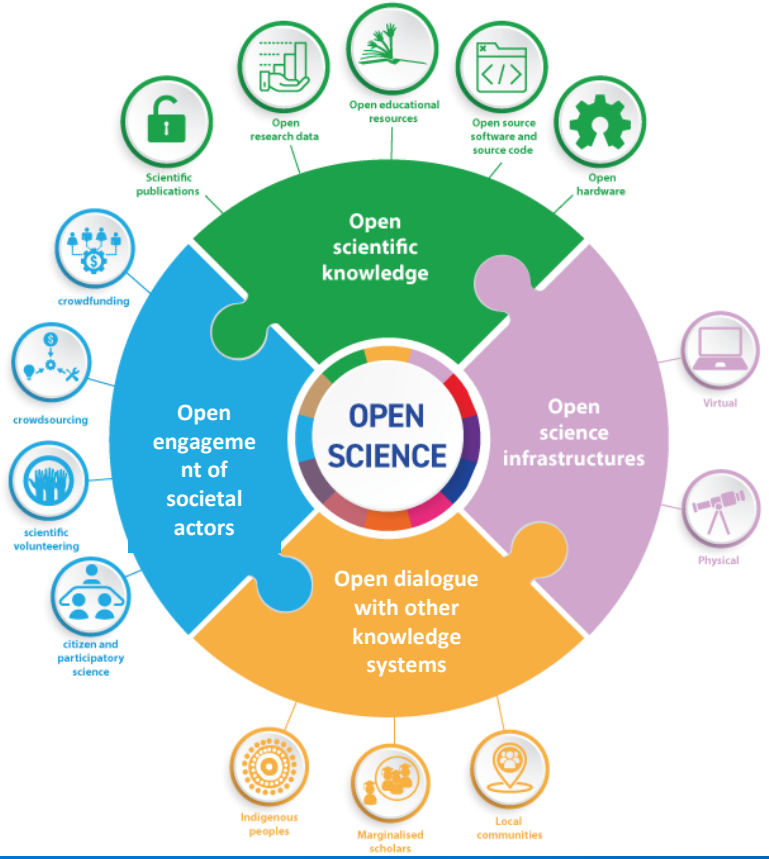
Definition of open science

Open Science:

- makes multilingual scientific knowledge openly available, accessible and reusable for everyone,
- increases scientific collaborations and sharing of information for the benefits of science and society,
- opens the processes of scientific knowledge creation, evaluation and communication to societal actors beyond the traditional scientific community.



Key pillars of open science



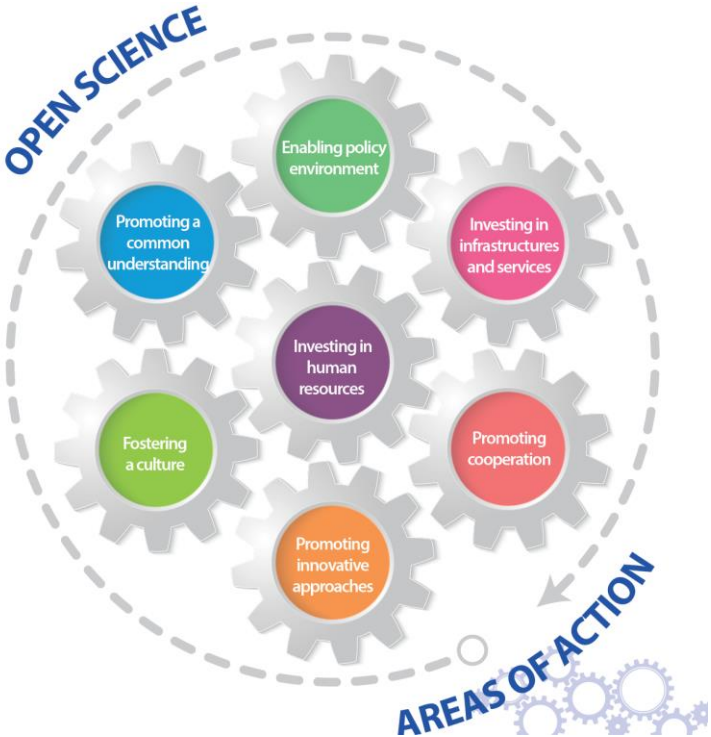
Open Scientific Knowledge: scientific publications, research data, software, source code, hardware and educational resources available in the public domain or under copyright, released under an open license

Open Science infrastructures: scientific equipment or sets of instruments, knowledge-based resources such as collections, repositories, archives and scientific data, open computational and digital infrastructures,

Open engagement of societal actors: collaboration between scientists and societal actors beyond the scientific community, opening up practices and tools that are part of the research cycle by making the scientific process more inclusive and accessible to the broader inquiring society

Open dialogue with other knowledge systems: recognition of richness and complementarities between diverse epistemologies, including indigenous knowledge systems

Key objectives – Key areas of action



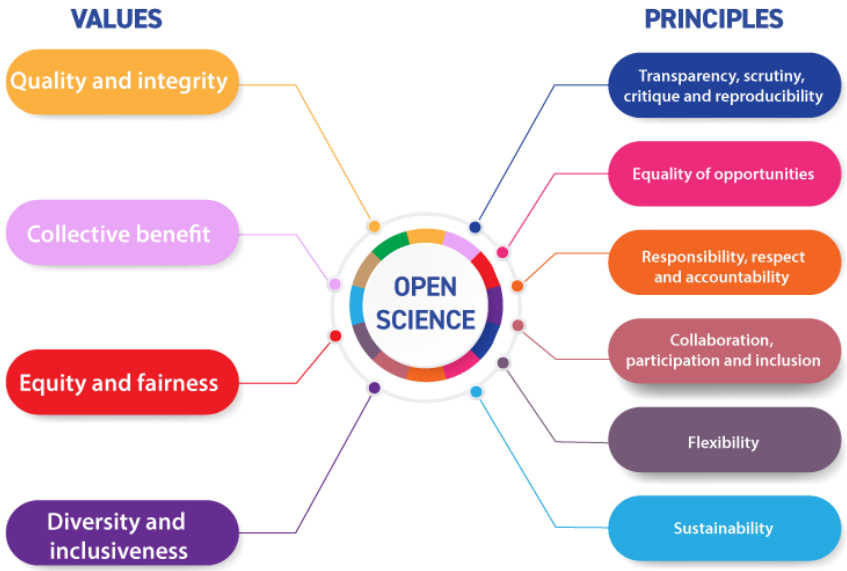
1. Promoting a **common understanding** of OS and its associated benefits and challenges, as well as the **diverse paths** to OS
2. Developing an **enabling policy environment** for OS
3. Investing in **infrastructure** and services for OS
4. Investing in training, education, digital literacy and **capacity-building,** for researchers and other stakeholders
5. Fostering a culture of OS and **aligning incentives** for OS
6. Promoting **innovative approaches** to OS at different stages of the scientific process
7. Promoting **international and multistakeholder co-operation** in the context of OS with a view to reducing digital, technological and knowledge gaps.

Implementation of the UNESCO Recommendation on Open Science

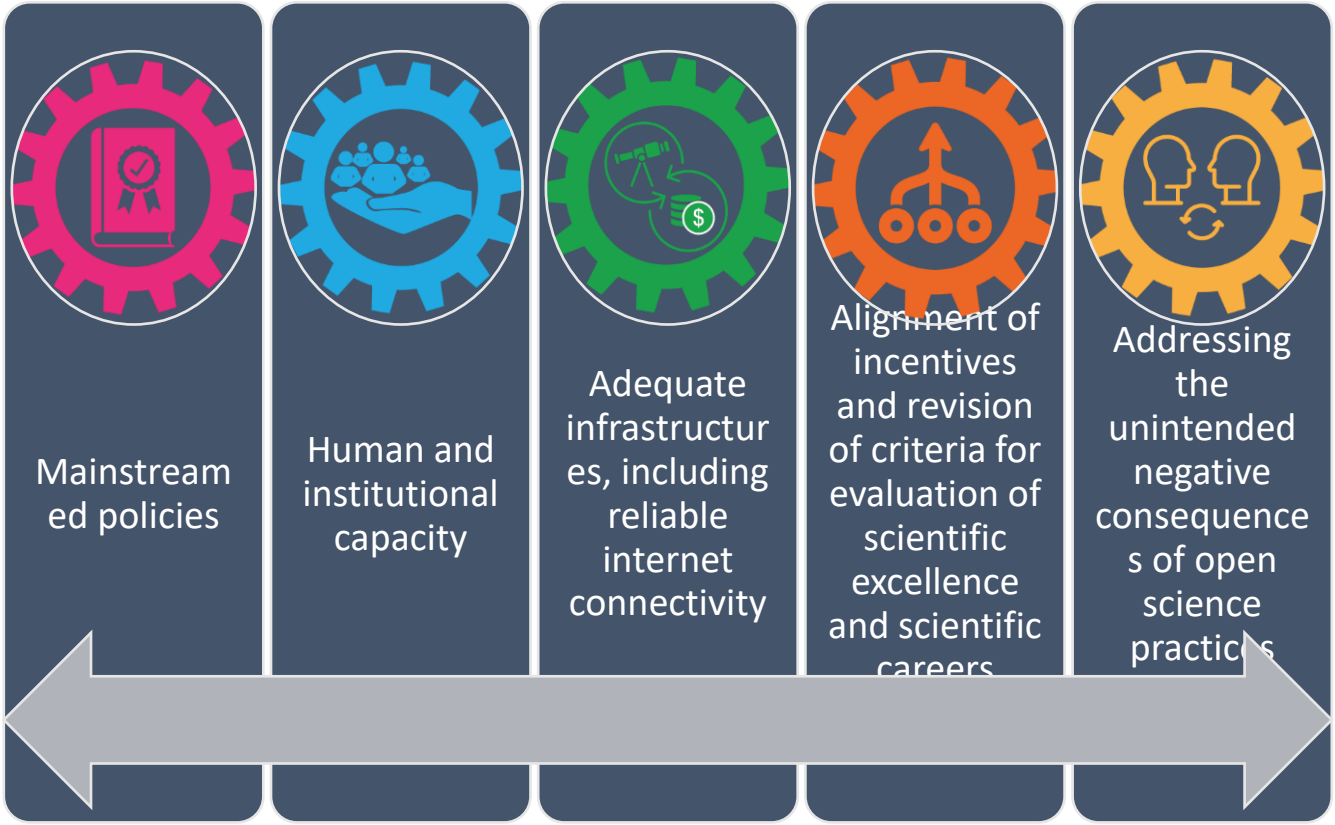
Change in the culture of science:

- From competition to collaboration
- From science as a product to science as a process
- From science for a selected few to science for all

Science as a Global Public Good



Key challenges and high impact areas for the implementation of the Recommendation



UNESCO Open Science Working Groups

- Capacity Building
- Monitoring
- Financing/Incentives
- Infrastructures
- Policies

UNESCO OPEN SCIENCE · TOOLKIT

GUIDES

- **Developing policies** for open science
- **Building capacity** for open science
- **Funding** open science
- Bolstering open science **infrastructures** for all
- **Engaging society in open science**
- Supporting **open source hardware for open science**

CHECKLISTS

- Checklist for **universities** on implementing the UNESCO Recommendation on Open Science
- Checklist for **open access publishers** on implementing the UNESCO Recommendation on Open Science
- Checklist for an **institutional open science action plan**

FACTSHEETS

- **Understanding open science**
- Identifying predatory academic journals and conferences
- **Intellectual property rights** and open science

OPEN INDEXES OF OPEN SCIENCE RESOURCES

- UNESCO Open Science **Capacity Building index**
- UNESCO Index of Open Science **Knowledge Sharing Platforms**

https://www.unesco.org/en/open-science/toolkit

Checklist for universities

As a university practicing open science, how are you...

- ❑ **Nurturing open methods**
- ❑ **Mainstreaming open practices**
- ❑ **Using and creating scientific infrastructures**
- ❑ **Thinking beyond scientific articles**
- ❑ **Supporting inclusive engagement and dialogue**

Are your institutional values aligned with the core values and principles of the UNESCO Recommendation on Open Science?

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UNESCO OPEN SCIENCE · TOOLKIT CHECKLIST

CHECKLIST FOR UNIVERSITIES ON IMPLEMENTING THE UNESCO RECOMMENDATION ON OPEN SCIENCE

This document is part of the UNESCO Open Science Toolkit, designed to support implementation of the UNESCO Recommendation on Open Science. It has been prepared in partnership with Library Support for Embedded NREN Services and E-infrastructure (LIBSENSE). The aim is to provide practical assistance to the university community to better understand the Recommendation on Open Science, in particular by highlighting the areas that apply to university leaders who wish to support its implementation.

LIBSENSE

As a university practicing open science, how are you…

Nurturing open methods

Are the scientific practices at your university open by default? Are the innovators in your university encouraged and incentivized to make their practices and products open? Are newcomers to your institution introduced to open science early on?

It is possible to nurture open science from the bottom-up through capacity building and from the top-down through policy changes. Combinations of these approaches, such as mandates for training in open science, may be suitable in your context.

A clear understanding of the possibilities and risks of open science practices enable students, educators and researchers to make smarter decisions in a scientific system that is as open as possible, as closed as necessary.

Mainstreaming open practices

Rather than creating separate open science policies, it may be more efficient and effective to build openness into core policies for science, data management, educational resources and more.

Open science practices can also be mainstreamed into partnerships involving the university and external actors, including international partners.

Using and creating scientific infrastructures

Are the tools used by scientists and students at your institution openly available on open platforms? Infrastructures can be both physical and virtual. The UNESCO Recommendation on Open Science provides guidance for ensuring that access to the tools required for open science is itself open and equitable.

Thinking beyond scientific articles

Scientific practice spans far more than the production of data or articles. The Recommendation provides guidance for opening up all stages of the scientific process, from conceptualization and co-design of research projects through to post-publication communication.

Those scientific outputs related to publications[1] that are openly licensed or dedicated to the public domain should be deposited in a suitable open repository, following appropriate technical standards properly linking to the publications.

Supporting inclusive engagement and dialogue

Open science includes all scientific disciplines and aspects of scholarly practices and builds on four key pillars: open access to scientific knowledge, open science infrastructures, open engagement of societal actors and open dialogue with other knowledge systems.

There are multiple actors and stakeholders in research and innovation systems and each of them plays a role in the operationalization of open science. Similarly, universities serve many audiences in addition to academics and scientific researchers.

In practice, inclusive engagement ranges from addressing practical aspects of accessibility through to meaningful engagement with marginalized and underrepresented groups. Engagement and dialogue can inform not only education and the practices of open science but also the co-design, creation, use and production of scientific outputs in multiple formats.

[1] Such as original scientific research results, research data, software, source code, source materials, workflows and protocols, digital representations of pictorial and graphical materials and scholarly multimedia material

Prepared in partnership with Library Support for Embedded NREN Services and E-infrastructure (LIBSENSE)

Guide on developing policies for open science

- **Why an OS policy is useful at the national or institutional level?**
  Build long-term stability, clarity of funding & resourcing, show commitment, educate and engage, remove legal and structural barriers,

- **Who should be involved in the development and when?**
  All relevant open science actors, especially those most affected, with focus on academics and researchers

- **Key factors to consider in developing an OS policy:**
  Mainstreaming, alignment with existing policies across sectors, clarity of rights & responsibilities, enforcement, monitoring and evaluation, learning and adaptation, etc.

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UNESCO OPEN SCIENCE - TOOLKIT GUIDANCE

This document is part of the UNESCO Open Science Toolkit, designed to support implementation of the UNESCO Recommendation on Open Science. Developed through the discussions and inputs from the members of the Working Group on Open Science Policies and Policy Instruments, this guide sets out the key factors to consider when developing policies for open science.

DEVELOPING POLICIES FOR OPEN SCIENCE

What is an open science policy?

Open science policies can be defined as a set of guidelines, rules, regulations, laws, principles or directions to put open science values and principles into practice. Open science policies are crucial to foster a culture of open science and to develop science, technology and innovation systems which contribute to making research more efficient, trusted, impactful, inclusive and responsive to societal needs.

Open science policies can range from community to institutional, national and regional to international policies. While this document focuses on national policies, the key factors identified to guide the development of open science policies are broadly applicable. It is important to note that institutional policies also have to address the specific needs, challenges and objectives of the related institutions, such as universities or other research-performing organisations, which can differ from the general scope of national policies and may need more targeted actions.

Open science policies can be used to:

- mandate or incentivise open science practices;
- manage the conduct of open science;
- address misconduct in open science;
- secure or enhance funding for open science;
- build capacity for open science;
- support the cultural changes needed to enhance open science practices;
- guide organizational changes needed to foster open science practices; and
- monitor open science and its impacts.

They can be designed to standardize open science processes to ensure consistent behaviour among institutions or researchers (e.g. open access and open data mandates and standards, including attribution standards) and/or to incentivize open science practices to support a culture of open science (e.g. bottom-up funding of open science practices, support of open communities, strategic development of an open science support services and infrastructure ecosystem, revision of research assessment and career evaluation aligned with open science principles).

Why have an open science policy?

As open science gains momentum across different scientific and non-scientific communities, the groundswell of action can benefit from the support and structure provided by relevant policy development.

An open science policy can provide:

- longer-term stability, including of funding, which:
  - facilitates genuine change in practice and culture;
  - facilitates infrastructure development and delivery and
  - increases the likelihood that scientists will have access to the necessary training and support personnel to implement open science;
- clarity of funding and resourcing in line with a holistic view of open science, which increases the likelihood of funding projects that may not have access to or be competitive in other grant systems;
- demonstration of commitment to operationalize open science values and principles;
- opportunity for education and engagement of the scientific community in the transition to open science; and
- deconstruction of the legal impediments and structural boundaries that hinder open science practices.

Join the Global Open Science Movement

Join the UNESCO Open Science Partnership!

Contribute to global open science calls !

Engage in the global discussions!

Be in touch!

UNESCO Open science website:
https://on.unesco.org/openscience

Contact: openscience@unesco.org

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Thank you

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United Nations
Educational, Scientific
and Cultural Organization

Documents

Matrix for break-out groups to work on	paper
LIBER strategy deck	https://zenodo.org/record/7696568
LIBER Services brochure	https://libereurope.eu/wp-content/uploads/2021/10/Liber_services_A4_digi.pdf
LIBER Open Science Roadmap	https://zenodo.org/record/1303002
LIBER cards - Open science skills wheel	https://zenodo.org/record/4727592
UNESCO Recommendation	https://unesdoc.unesco.org/ark:/48223/pf0000379949.locale=en
UNESCO Toolkits elements	https://zenodo.org/communities/unesco-science
take-home notes	paper
workshop programme	paper
UNESCO brochure: Introduction to the Recommendation on Open Science	https://unesdoc.unesco.org/ark:/48223/pf0000383771_eng

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Groups

Small groups of discussion - **how to implement** the UNESCO's recommendation

Principles
Values
7 Areas of action

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Matrix for the break-out groups

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UNESCO – LIBER

Adopting, adapting and taking advantage of the Recommendation on Open Science toolkit

Implementing the UNESCO Recommendation on Open Science (2021)

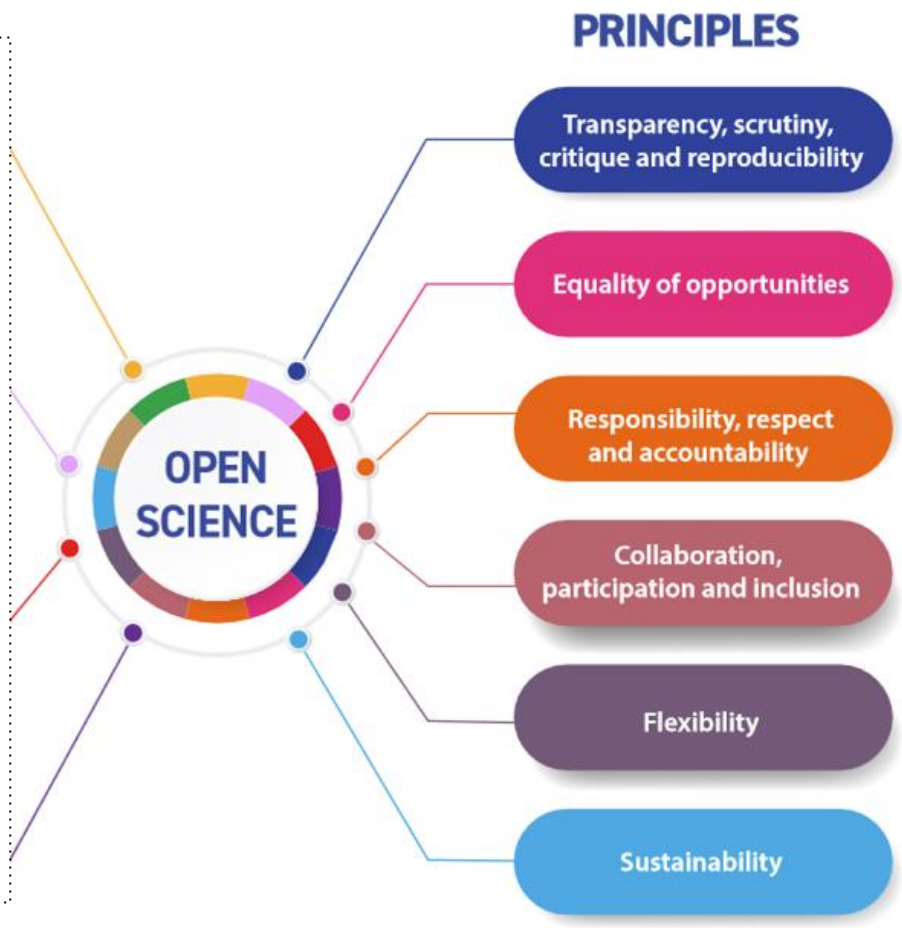
website https://www.unesco.org/en/open-science and
https://en.unesco.org/science-sustainable-future/open-science/recommendation
UNESCO library https://unesdoc.unesco.org/ark:/48223/pf0000379949.locale=en

Using the UNESCO Open Science Toolkit

website https://www.unesco.org/en/open-science/toolkit
zenodo https://zenodo.org/communities/unesco-science

Inspiration from LIBER publications https://zenodo.org/communities/liber-publications/
(Re) using LIBER training material https://libereurope.eu/webinar-recordings/ **and**
https://www.youtube.com/user/libervideo

What can I adopt from the UNESCO toolkit and/or use from the LIBER material?



Principles - personal 1

I can showcase and share

UNESCO's Global Call for Best Practices in Open Science

To assist Member States with the implementation of the UNESCO Recommendation on Open Science, UNESCO is launching a Global Call for Best Practices in Open Science to collect best practices in open science at individual, institutional, national, regional and international levels with a particular focus on the seven priority areas highlighted in the Recommendation (http://bit.ly/3VI5oHP).

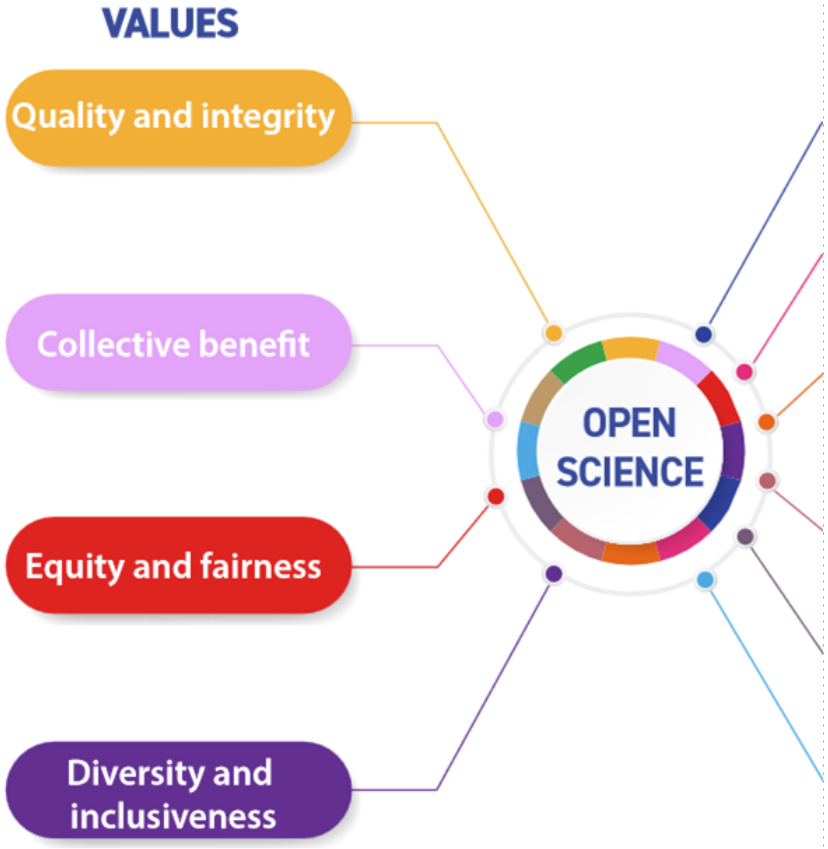
The resulting compendium of best practices will be made widely available and broadly disseminated and will be a useful tool to better understand the current landscape of best practices in open science, to identify possible gaps and challenges, share lessons learned improve knowledge and understanding.

If you are involved in an open science initiative that you consider to be a good example or best practice in open science, please provide your input to the survey (available in English, French and Spanish)

I can get inspiration from / partner with / look at

Action plan ; capacity building ; training priorities - personal 2

Action plan (main steps)	Capacity building	Training priorities



What can I adopt from the UNESCO toolkit and/or use from the LIBER material?

Adopting, adapting and taking advantage of the Recommendation on Open Science toolkit
https://www.unesco.org/en/open-science - *https://libereurope.eu/strategy/*

Values - personal 1

I can enhance	I should develop	I might consider

Action plan ; capacity building ; training priorities - personal 2

Action plan (main steps)	Capacity building	Training priorities

7 areas of action

What can I adopt from the UNESCO toolkit and/or use from the LIBER material?

Adopting, adapting and taking advantage of the Recommendation on Open Science toolkit
https://www.unesco.org/en/open-science - *https://libereurope.eu/strategy/*

7 areas of action - personal 1

Train, train, train

Mapping open and internationally relevant open science capacity building and training modules

To support the implementation of the UNESCO Recommendation on Open Science

The UNESCO Working Group on Open Science Capacity Building is collating information about available training modules on open science for different open science actors to map existing resources, identify the gaps and work to fill those gaps.

This questionnaire is designed to collect the existing, openly available, multi-nationally relevant training courses on open science, in different languages and for different audiences.

Please fill in this form for **each** training material (course, module, etc.) that you identify as absent in this index: https://www.unesco.org/en/open-science/capacity-building-index

My first action(s) for a quick victory

Useful tips and contacts

Action plan ; capacity building ; training priorities - personal 2

Action plan (main steps)	Capacity building	Training priorities

Notes and contacts

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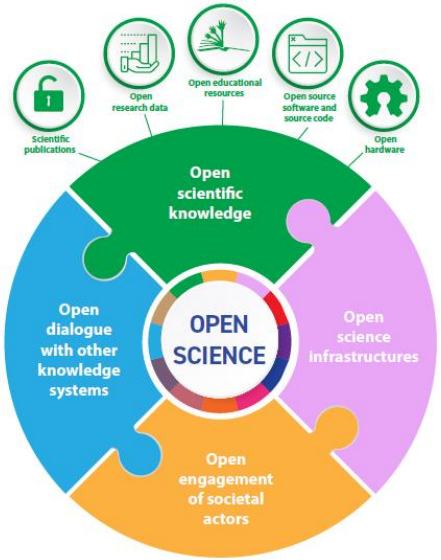

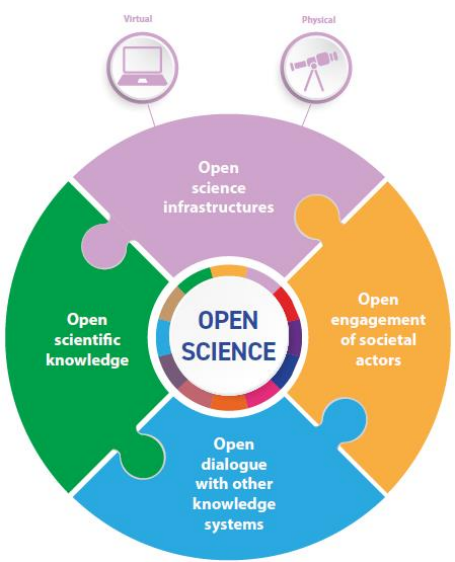

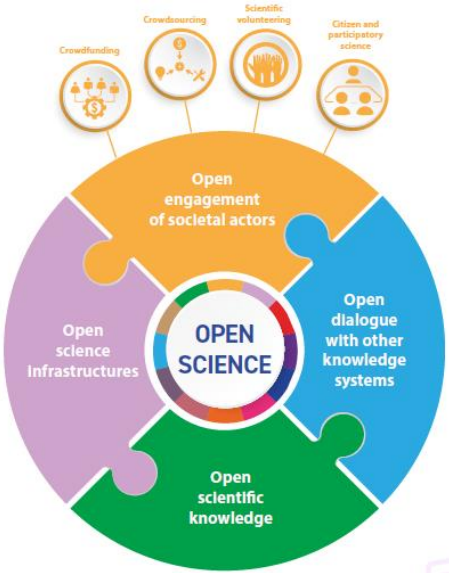

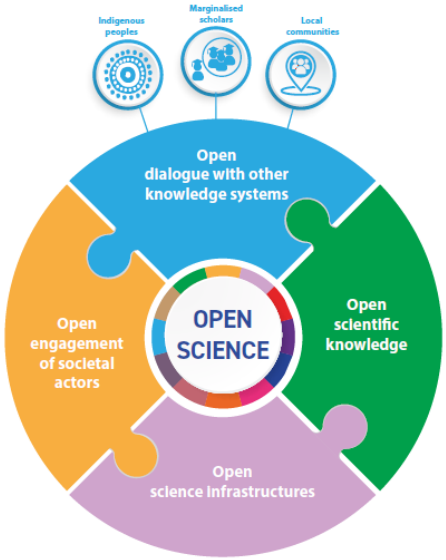

Monday 25 September 2023

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Useful resources

LIBER strategy deck	https://zenodo.org/record/7696568
LIBER OS Roadmap	https://zenodo.org/record/1303002
LIBER Open science skills	https://zenodo.org/record/4727592
UNESCO Recommendation	https://unesdoc.unesco.org/ark:/48223/pf0000379949.locale=en
UNESCO Toolkits elements	https://zenodo.org/communities/unesco-science

Groups feedback

Your input and your words of wisdom are the best concluding remarks !

Tip us ! **How to implement** the UNESCO's recommendation
What did you find **useful** either in the UNESCO Toolkit and LIBER resources

Principles
Values
7 Areas of action

OPEN SCIENCE FAIR

See you for the Youtube live on **October 3, 4PM CEST** to discuss **Open Science Monitoring in Europe** with LIBER, UNESCO, LA Referencia, Finland, France, and OpenAIRE

https://www.youtube.com/user/RepositoriosLA

https://libereurope.eu/event/open-science-monitoring-in-europe-a-liber-unesco-and-la-referencia-webinar/

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