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components



The Open Science MOOC

1st UNESCO Capacity Building WG Meeting
12th May 2022



pcmasuzzo



paola.masuzzo@gmail.com



Hi, I am Paola! I am a data scientist, Open Science advocate and independent researcher at [IGDORE](#)



unesco



<https://opensciencemooc.eu/>

We want to help make **open** the default setting for all
global research.

- how it all started



Jon Tennant
May 6th, 1988 - April 9th, 2020

21st August 2017

Dear Sirs and Madams,

We are writing on behalf of the [Open Science MOOC](#), a platform we are building for students and researchers to learn the skills they need to thrive in a modern, Web-based research environment. Our vision is to create a modular educational resource that can be fully integrated into graduate schools around Europe, and further.

We are writing to you to express a statement of interest, inspired by the publication of two recent reports by the EU Commission: [Evaluation of Research Careers fully acknowledging Open Science Practices](#) and [Providing researchers with the skills and competencies they need to practise Open Science](#). In these reports, the European Commission recognises the urgency to make open science part of standard research excellence training¹ and taking into account Open Science track record in the tenure and research evaluation for individuals² and institutions. In the case of R1 and R2 researchers, it should be mandatory for universities and research organisations to offer these as part of their training.

Yours sincerely,

Dr. Jonathan Tennant, Dr. Paola Masuzzo, Dr. Ivo Grigorov (on behalf of the [Open Science MOOC team](#))

“

We want to help create a welcoming and supporting community, with good tools, teachers, and role-models, and built upon a solid values-based foundation of freedom and equitable access to research.

- the strength lies with the community

1.8k users



[Open MOOC-ers](#)

1.7k followers



[Open Science MOOC | Facebook](#)

more than 9k followers



[@OpenScienceMOOC](#)

Strong interest and engagement from early career researchers and students

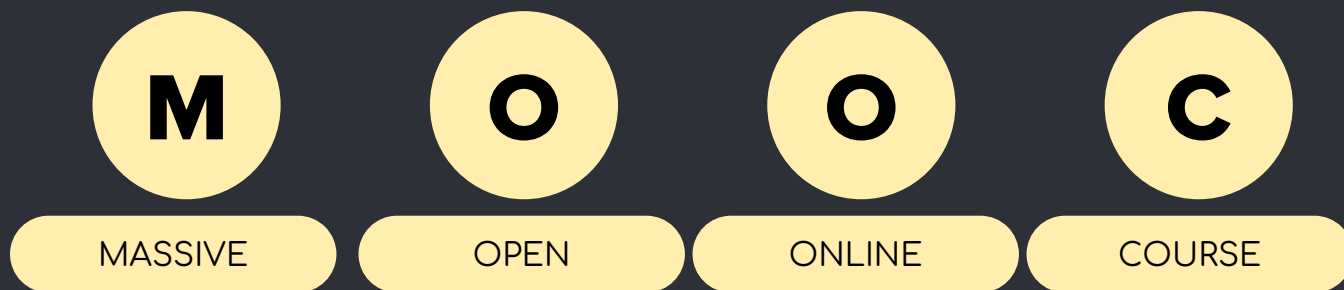
the Open Science MOOC
moves to IGDORE

Many IGDORE affiliates are active at **On Science & Academia** – an open forum for researchers, students, and the science-interested public – join us, everyone is welcome! <https://onscienceandacademia.org/>

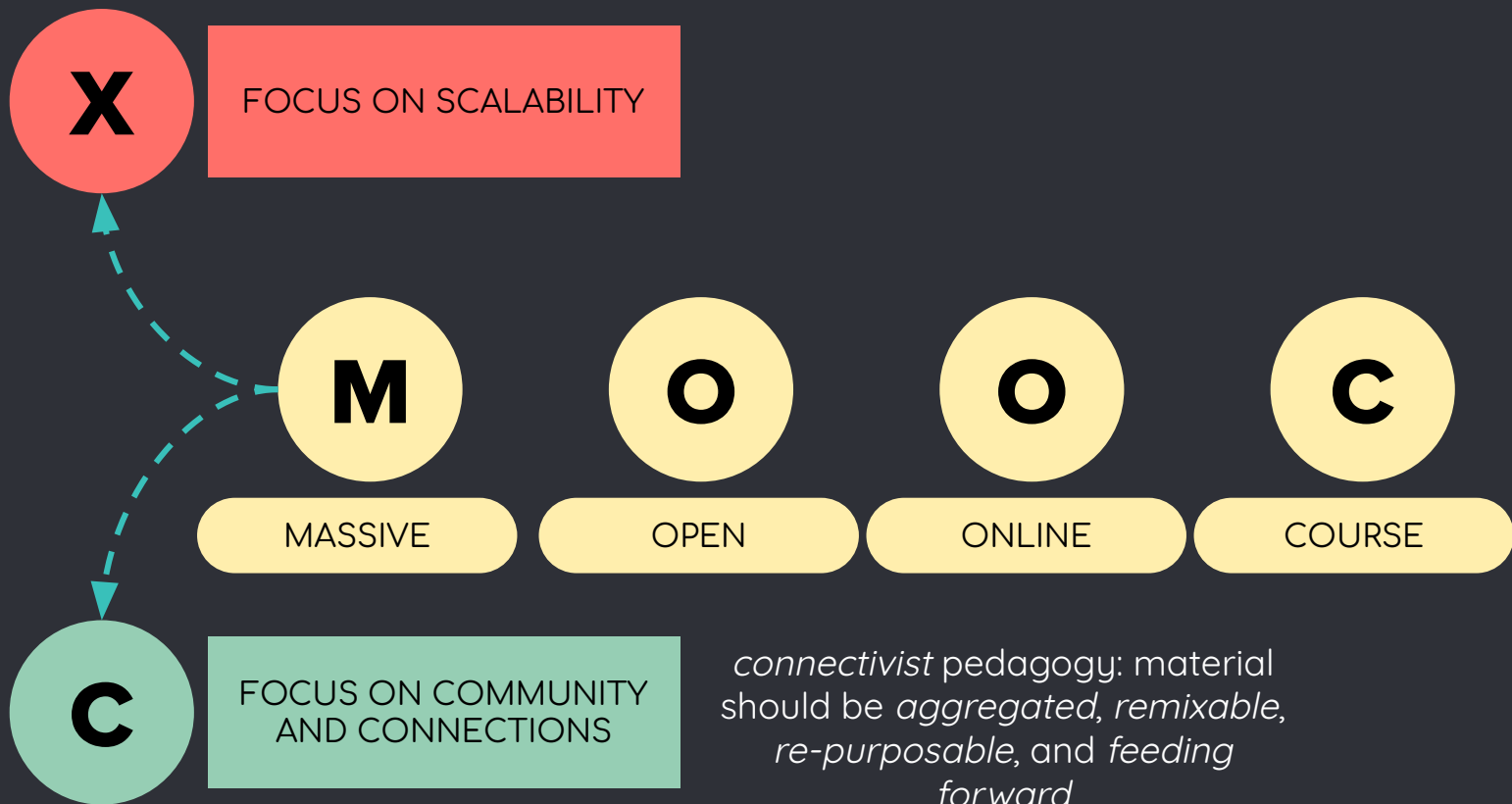
Education Working Group



- why a MOOC?



● why a MOOC?



● why a MOOC?



Multidisciplinary

Open licences

Self-paced

Multicultural

Free of charge

Collaborative
development &
learning

Multilingual

Retain, reuse, remix,
redistribute

M

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MASSIVE

OPEN

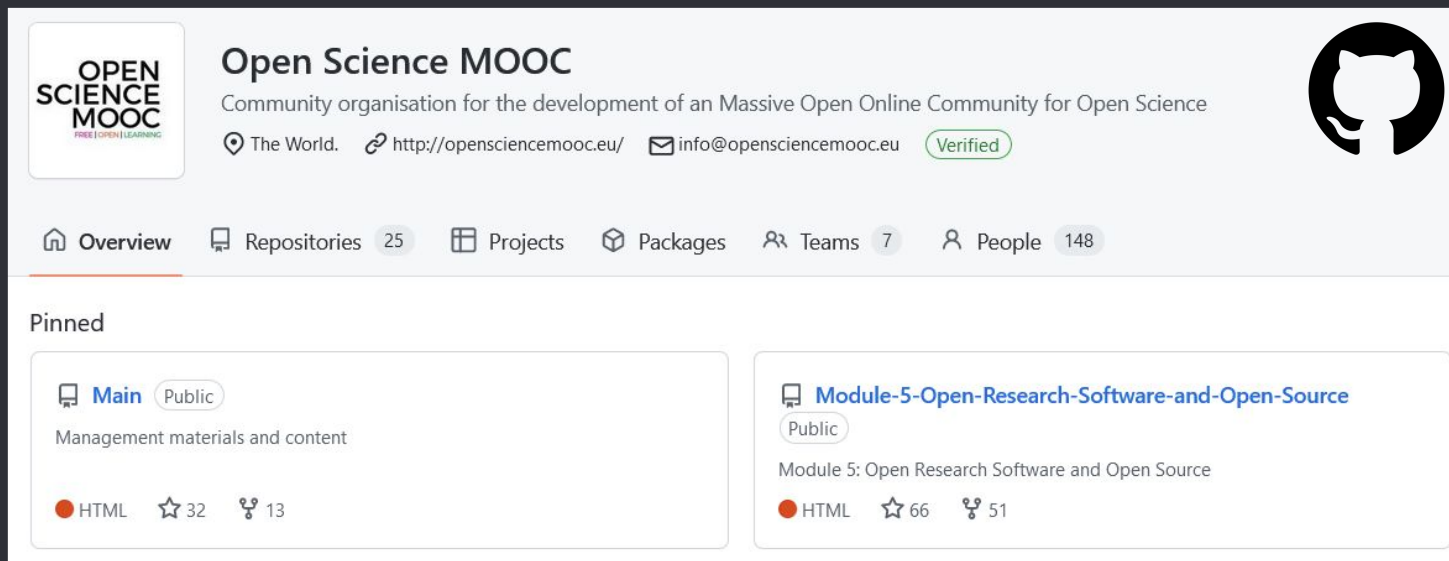
ONLINE

COURSE

Accessible

Interactive

● collaborative development



The screenshot shows the GitHub profile for 'Open Science MOOC'. The profile header includes the repository name, a description, location, website, email, and a verified badge. Below the header is a navigation bar with links to Overview, Repositories (25), Projects, Packages, Teams (7), and People (148). The 'Pinned' section displays two repositories: 'Main' (Public) with 32 stars and 13 forks, and 'Module-5-Open-Research-Software-and-Open-Source' (Public) with 66 stars and 51 forks. Both repositories are marked as HTML.

Open Science MOOC
Community organisation for the development of an Massive Open Online Community for Open Science
📍 The World. 🔗 <http://opensciencemooc.eu/> ✉ info@opensciencemooc.eu Verified

[Overview](#) [Repositories](#) 25 [Projects](#) [Packages](#) [Teams](#) 7 [People](#) 148

Pinned

[Main](#) Public

Management materials and content

📄 HTML ☆ 32 🍴 13

[Module-5-Open-Research-Software-and-Open-Source](#) Public

Module 5: Open Research Software and Open Source

📄 HTML ☆ 66 🍴 51

Contribution Guidelines

These are the main contributing guidelines for the development of this MOOC, and apply to each module within. The development structure for this is based on a combination of two things:

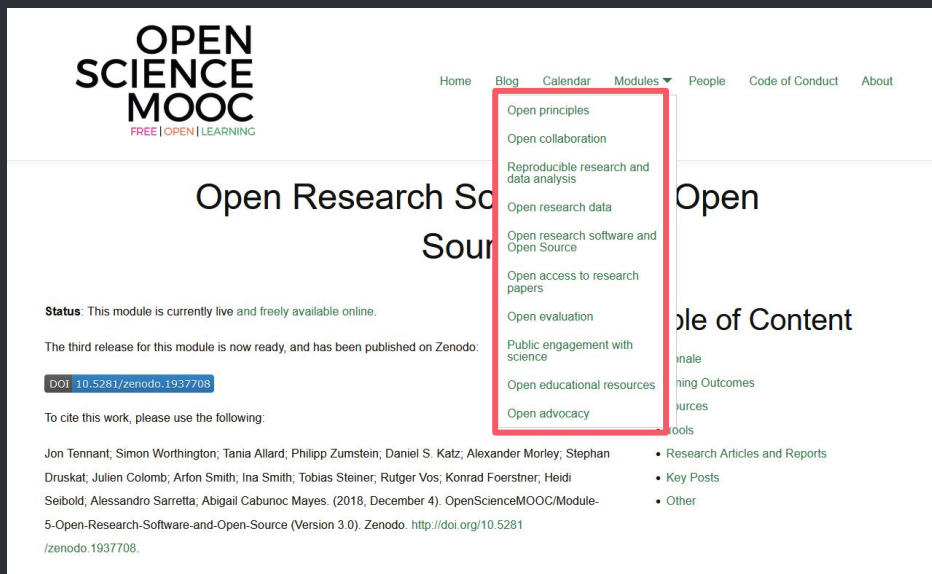
1. Invited experts as part of a core development team, led by one or two managers for each module.
2. Open participation, where anyone can contribute using the standard processes on GitHub.

modular approach

rationale, learning outcomes

resources, key posts, research articles & reports, tools, best practices

content development, production toolkits, tasks & quizzes



The screenshot shows the Open Science MOOC website. The header includes the logo 'OPEN SCIENCE MOOC' with the tagline 'FREE | OPEN | LEARNING' and a navigation bar with links: Home, Blog, Calendar, Modules (dropdown), People, Code of Conduct, and About. The 'Modules' dropdown menu is open, listing the following items: Open principles, Open collaboration, Reproducible research and data analysis, Open research data, Open research software and Open Source, Open access to research papers, Open evaluation, Public engagement with science, Open educational resources, and Open advocacy. The main content area displays the title 'Open Research Software and Open Source' and a status message: 'Status: This module is currently live and freely available online.' It also mentions 'The third release for this module is now ready, and has been published on Zenodo.' with a DOI link: [DOI 10.5281/zenodo.1937708](https://doi.org/10.5281/zenodo.1937708). Below this, it says 'To cite this work, please use the following:' and lists the authors: Jon Tennant, Simon Worthington, Tania Allard, Philipp Zumstein, Daniel S. Katz, Alexander Morley, Stephan Druskat, Julien Colomb, Arfon Smith, Ina Smith, Tobias Steiner, Rutger Vos, Konrad Foerstner, Heidi Seibold, Alessandro Sarretta, Abigail Cabunoc Mayes. (2018, December 4). OpenScienceMOOC/Module-5-Open-Research-Software-and-Open-Source (Version 3.0). Zenodo. <http://doi.org/10.5281/zenodo.1937708>. A list of resources is also visible: Research Articles and Reports, Key Posts, and Other.



The graphic features the Open Science MOOC logo on the right, with the tagline 'FREE | OPEN | LEARNING'. On the left, there is a stack of colorful, overlapping rectangular planes. To the right of the planes, a list of modules is displayed in a stacked, descending format:

- OPEN ADVOCACY
- OPEN EDUCATIONAL RESOURCES
- PUBLIC ENGAGEMENT WITH SCIENCE
- OPEN EVALUATION
- OPEN ACCESS TO RESEARCH PAPERS
- OPEN RESEARCH SOFTWARE & OPEN SOURCE
- OPEN RESEARCH DATA
- REPRODUCIBLE RESEARCH & DATA ANALYSIS
- OPEN COLLABORATION
- OPEN PRINCIPLES

modular approach



- videos introduce & complement the modules' production toolkits

The screenshot shows the YouTube channel page for 'Open Science MOOC', which has 409 subscribers. The channel is subscribed to. The 'Playlists' tab is selected, displaying five created playlists:

Playlist Title	Video Count	Action
Module 1: Open Principles	4	VIEW FULL PLAYLIST
Module 5: Open Research Software and Open Source	7	VIEW FULL PLAYLIST
Module 6: Open Access	13	VIEW FULL PLAYLIST
Open Science	103	VIEW FULL PLAYLIST
Open Science MOOC mentions	36	VIEW FULL PLAYLIST

● mission & plans



promotion to the scientific community & sustainable, open choice of a **hosting platform** for enrolling & distribution



leverage current **partnerships** & explore new ones

financial support

foster new collaborations

create & nourish a community where **diversity**, **inclusion** & **inclusiveness** are non-negotiable



content development: updating existing modules & producing new ones

enable **multidisciplinary**, **multilingual** & **multicultural** participation



Thank you!

You can find me at



@pcmasuzzo

paola.masuzzo@gmail.com



<https://opensciencemooc.eu/>

education@igdore.org



Access Courses

Put Open Science into practice with our **Open Science training toolkit**. Our **courses** are authored by experts and experienced educators.



Earn Badges

Get recognised for taking **our courses** and follow our **learning paths** to specialisations.



Participate

Join our community of trainers and access our **Trainers' Corner**.



Promote Open Science

Use the **Open Science training handbook**. In a variety of formats and languages.

FOLLOW OUR LEARNING PATHS:



The open access author



The open innovation accelerator



The reproducible research practitioner



The responsible data sharer



The open peer reviewer



Courses | FOSTER

+


https://www.fosteropenscience.eu/courses

← → ↺

https://www.fosteropenscience.eu/courses


☰ ☆

☑ ☰



Research and Data ethics

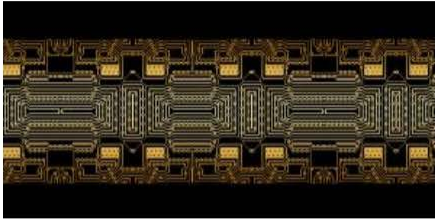
This course covers research data ethics, along with basic data...



Openness in Science and RRI


This introductory course will help you to know the concepts of Open Science and RRI, key principles and the implications for practicing research.

Upon completion of this course, you wi...




Open and FAIR Research Data

This course explains the difference between open data and FAIR...




Introduction to Responsible Research and Innovation

This introductory course will help you to understand what Responsible Research & Innovation (RRI) means, where it has come




Engaging the Public in Responsible Research and Innovation

The course will help understand and justify the importance of public engagement as a key



Responsible Research and Innovation for Companies



What is Open Science? | FOSTERX

+

←

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https://www.fosteropenscience.eu/node/2326

📄

☆

📁

☰

carry out your research in a more transparent and collaborative way. Open Science applies to all research disciplines. While Open Science is the most commonly used term, you may also hear people talking about Open Scholarship or Open Research in the Arts and Humanities.

For a citable version or to use this course offline, please refer to the print version which is available from [Zenodo](#).

Haga el curso en español

Start the Free Course

Open Science

Open Science Definition

Open Data

Open Workflow Tools

Open Access

Open Science Tools

Open Science Guidelines

Audience

Librarians and Repository managers

Researchers and Students

Research Administration

PHD Students

Researchers and Students

Reuse this course

If you want to use this course in your LMS.

Download SCORM

CC

BY

Course: Comprendre la science

+

—

×

←

→

↺

🔒

https://callisto-formation.fr/course/view.php?id=187

📄

☆

📧

☰

☰

Callisto

FORMATION

CALLISTO ▾

LES ESPACES ▾

🔍 You are currently using guest access (Log in)

Comprendre la science ouverte

Home

Courses

INIST

Cours

Comprendre la science ouverte

<https://callisto-formation.fr/course/view.php?id=187>

Description du cours "Comprendre la science ouverte"

Ce cours a été créé à partir du [MOOC FOSTER Open Science](#) et adapté à la France.

FOSTER définit la science ouverte comme le mouvement visant à rendre la recherche, les données et la communication scientifique accessibles à tous les niveaux d'une société qui s'interroge.

Mais que signifie la science ouverte (SO) dans la pratique ? Ces 9 leçons sur la science ouverte répondent à certaines des questions les plus courantes que vous pourriez vous poser sur la mise en pratique de la science ouverte. Les leçons comprennent des conseils pour commencer à pratiquer la SO ainsi que des informations sur les outils et les ressources spécifiques à la discipline que vous pouvez utiliser.

Ce cours a été pensé et conçu pour être suivi :

- Soit de façon linéaire et progressive ;

CC

BY

Open Science Training Handbo

Readme · GitHub

← → ↺

https://open-science-training-handbook.github.io/Open-Science-Training-Handbook_EN//

☑ ☆

Type to search

Readme

Introduction

Open Science Basics

Open Concepts and Principles

Open Research Data and Materials

Open Research Software and Op...

Reproducible Research and Data ...

Open Access to Published Resea...

Open Licensing and File Formats

Collaborative Platforms

Open Peer Review, Metrics and E...

Open Science Policies


Citizen Science

Open Educational Resources

Open Advocacy


https://www.fosteropenscience.eu/content/open-science-training-handbook

https://open-science-training-handbook.github.io/Open-Science-Training-Handbook_EN//



The Open Science Training Handbook

A group of fourteen authors came together in February 2018 at the TIB (German National Library of Science and Technology) in Hannover to create an open, living handbook on Open Science training. High-quality trainings are fundamental when aiming at a cultural change towards the implementation of Open Science principles. Teaching resources provide great support for Open Science instructors and trainers. The Open Science training handbook will be a key resource and a first step towards developing





Open-Science-Training-Handbook

FOSTER Open Science Training Handbook

<https://github.com/Open-Science-Training-Handbook>

Overview Repositories 13 Projects Packages People 4

Popular repositories

Open-Science-Training-Handbook_EN

Public

Main handbook content divided into chapters.

☆ 41

🔗 45

Open-Science-Training-Handbook_PT

Public

Portuguese language version e-book available at
<https://book.fosteropenscience.eu/pt/>

☆ 15

🔗 8

Open-Science-Training-Handbook_ES

Public

This will be the Spanish version of the handbook.

☆ 7

🔗 11

Open-Science-TrainingHandbook_EL

Public

This will be the Greek version of the handbook.

☆ 2

🔗 19

Open-Science-TrainingHandbook_FR

Public

In this repository the OSTH will be translated into French.

☆ 2

🔗 4

Open-Science-Training-Handbook_IT

Public

This will be the translation of the OSTH to Italian.

☆ 2

🔗 13

People



Top languages

● JavaScript



Open-Science-Training-Handbo X

+

← → ↺

https://github.com/Open-Science-Training-Handbook

90% ☆

☑ ☰

Open-Science-Training-Handbook_SK

Public

This will be the Slovak translation of the Open Science training handbook.

☆ 1 📄 CC0-1.0 👤 0 ⌚ 0 🏷 1 Updated 28 days ago

-Open-Science-TrainingHandbook_TUR

Public

In this repository the OSTH will be translated into Turkish.

☆ 1 📄 CC0-1.0 👤 0 ⌚ 0 🏷 0 Updated on Mar 21

Open-Science-Training-Handbook_EN

Public

Main handbook content divided into chapters.

☆ 41 📄 45 ⌚ 12 🏷 4 Updated on Jun 18, 2021

Open-Science-Training-Handbook_UA

Public

☆ 0 📄 CC0-1.0 👤 0 ⌚ 0 🏷 0 Updated on Jun 18, 2021

Open-Science-Training-Handbook_ES

Public

This will be the Spanish version of the handbook.

☆ 7 👤 11 ⌚ 26 🏷 9 Updated on Jun 14, 2021

Open-Science-Training-Handbook_PT

Public

Portuguese language version e-book available at <https://book.fosteropenscience.eu/pt/>

☆ 15 👤 8 ⌚ 0 🏷 0 Updated on Jun 14, 2021

CC BY



LA Referencia Training Activities 2020-2022

LA Referencia: Latin America Open Science Repository Network

Open Science Repository Network formed by an association of government authorities of Science, Technology and Innovation, founded on 2012 through the signing of a Cooperation Agreement, as a result of the project financed by the IDB (2010-2013).

MISSION: To give visibility to the **public funded scientific production** in Latin America, through the cooperation and articulation of a **federated network** of institutional and data repositories, based on **regional agreements and national open access strategies**.

In this context, scientific production is understood **not only as the literature** but also as the data and metadata of the inputs, products and processes of scientific research work.



LA Referencia Members 2022





OpenAIRE / OpenAIRE 4.0 Guidelines / OpenAIRE Graph / Usage statistics



COAR: international alignment



DSpace / Vivo – MOU LYRISIS



Research Data



CRIS Systems



MoU NREN's Africa



RCAPP - MoU FCT/FCN / Colaboração Univ. Minho



Indicators and research assesment



LA Referencia

Red de repositorios de acceso abierto a la ciencia



Red
CLARA
Cooperación Latino Americana de Redes Avanzadas

LA Referencia/ RDA US MoU

In September 2021, an MOU was signed with the RDA Americas specific objectives regarding training:

- **Facilitate national and international commitments**, participation into working groups to address problems related to research data for LA Referencia and RedCLARA research community and the general public.
- **Promote the organization of events and trainings** to support the adoption of best practices in research data management in Latin America and Spain.
- **Support the development of shared services and common standards**, including the development of policies, capacities, and infrastructure interoperability
- Promotion of regional adoption of RDA recommendations with the support of RDA
- **Facilitate the availability of RDA content in the languages of the region**, Spanish and Portuguese.

LA Referencia RDM internal WG: Survey on Training

This group launched a survey inside their science and technology organizations in order to identify topics of interest for training activities.

- Model and registration of research data types
- Research data repositories (interoperability and requirements)
- Dataverse installation workshops
- Metadata standards for documenting research data
- Basic knowledge of research data science
- Legal interoperability of research data: Principles and Guidelines for implementation
- Research Data Policies for Scientific Journals and Publishers

LA Referencia/RDA 2020/2021 Trainings

During 2020 and 2021, a series of trainings related to research data management were organized

- Management and planning of research data in scientific practice
- National and Regional Strategies in Open Science
- Data Science Professionals in the Academy: What do they do and what can they do in the future?
- What is a Data Steward?

2022 Selected RDA Trainings (to be translated / interpreted)

May	Thursday 19 May 16:00 UTC	<u>Persistent Identification of Instruments WG</u>
June	Thursday, 23 June Time 14:00 TBD	<u>Professionalising Data Stewardship IG</u>
July	Offered July or Aug	<u>Exposing Data Management Plans WG</u>
September	Time/Date TBD	<u>CURE-FAIR WG</u>
October	Time/Date TBD	<u>Research Metadata Schemas WG</u>
November	Time/Date TBD	<u>DMP Common Standards WG</u>

LA Referencia Resource Center

In May/June 2022 LA Referencia will launch an online resource center, this website will contain all the past and future training outcomes: videos, presentations, documents. All contents will be tagged according different user profiles Researchers, Information Managers, Open Science Software developers, etc .

At first it will include the past training videos and Spanish/Portuguese translations series of cards on research data provided by the RDA



¡Expanda sus conocimientos sobre Ciencia Abierta de la mano de la Plataforma de Capacitación de LA Referencia!

Utilice nuestra Plataforma de Capacitación para encontrar publicaciones que le permitirán aprender, junto a personas expertas, sobre repositorios, Ciencia Abierta, Acceso Abierto, entre otros.



Explore nuestras categorías de acuerdo a su perfil profesional



Me dedico a la Investigación



Me dedico a la Gestión de la Información (profesional de la información)



Me dedico al desarrollo de Tecnología para la Ciencia Abierta

Explore otras categorías



Tarjetas de la RDA

Descubra todo sobre los datos de investigación en estas tarjetas preparadas por la RDA

Explorar

Explore otras categorías

Acceso Abierto






Explore capacitaciones y recursos sobre el movimiento de Acceso Abierto

Explorar

Nuestros últimos recursos

Mostrar 21 recursos de capacitación por página

Buscar:

Título	Categoría	Fecha de Fecha de Publicación	Descargar
 Sesión de Preguntas y Respuestas: Planificación de Datos de Investigación 1 0 download	Datos de Investigación, Gestión de la Información, Investigación y Ciencia Abierta, Tecnología y Ciencia Abierta	March 11, 2022	DOWNLOAD
 Sesión de Preguntas y Respuestas: Gestión de Datos de Investigación en la práctica Científica 1 0 download	Datos de Investigación, Gestión de la Información, Investigación y Ciencia Abierta, Tecnología y Ciencia Abierta	February 20, 2022	DOWNLOAD
 Modelos empresariales sostenibles con base en software de intermediación para apoyar la Interoperabilidad de la Investigación 1 1 download	RDA	April 5, 2022	DOWNLOAD
 Interoperabilidad legal de los datos de investigación: Principios y Directrices de aplicación 1 40 downloads	Datos de Investigación, Gestión de la Información, Investigación y Ciencia Abierta, RDA	March 11, 2022	DOWNLOAD
 Gestión de Datos de Investigación – Parte II 1 0 download	Datos de Investigación, Gestión de la Información, Investigación y Ciencia Abierta, Tecnología y Ciencia Abierta	February 20, 2022	DOWNLOAD



Sesión de Preguntas y Respuestas: Planificación de Datos de Investigación

Comparta este recurso de capacitación:



 Sesión de Preguntas y Respuestas: Planificación de Datos de Investigación



Programa de Capacitación sobre

Planificación de Datos de Investigación



Sesión de Preguntas y Respuestas

Ver en  YouTube

LA Referencia is Open Access

LA Referencia is Open Science

LA Referencia is Open to collaboration

You are all welcome !

“Our strength is the acknowledgement
and respect of the differences as a
foundation of international collaboration”



UNESCO

First meeting of the Working Group on Open Science Capacity Building

May 12, 2022

Open Science Capacity Building in Africa



Access 2
Perspectives



doi: 10.5281/zenodo.6542799

Open Science: Definition and Scope

The African Open Science Landscape



Science Communication Hub Nigeria

Engaging The Public Through Science



AFRICA
OPEN SCIENCE
HARDWARE



African Open Science Platform



Open Scientific Knowledge

Open Access incl. Open Peer Review

Open Research Data

Open Educational Resources

Open source software/source code

Open Hardware

Open Access



UNIVERSITY OF CAPE TOWN
IYUNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD



Access 2
Perspectives

<https://info.africarxiv.org/african-digital-research-repositories/>





OA webinars


Open Peer Review

A collaborative effort between 5 organizations



Open Source / Open Code / Open Data



**O&A Members** 71
Active Organisational & Affiliate members


MEM Members: 12588
Becoming a member of RDA is simple and open to both individuals and organizations
[Register now](#)

RDA Grc WG & IGs: 94
Discover what RDA Working and Interest Groups and all other Groups are up to and find out how to join them. [Explore Groups](#)

[Home](#) » [Working and Interest Groups](#) » [Working Group](#) » [RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG](#)

WG **RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG**

 Taxonomy:







**UNIVERSITY OF CAPE TOWN**
IFUNIVESITHI YASEKAPA - UNIVERSITEIT VAN KAAPSTAD

Digital Library Services

DATA STEWARDS

The UCT Data Stewards and champions is based on a community of practice approach where members have a shared domain of interest, a sense of community and a shared practice. Data Stewards help spread best data practices in their community and help DLS with curating data on our publishing platforms. Our Data Stewards and Champions Community meets once every month to share ideas, stories and recent development around working with data at UCT.

[JOIN US!](#)



 The Carpentries Handbook

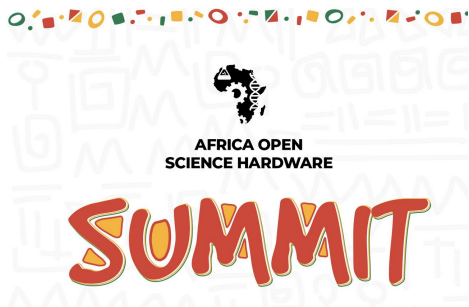


latest

[Docs](#) » [REGIONAL COMMUNITIES](#) » [Carpentries in Africa](#)

Carpentries in Africa

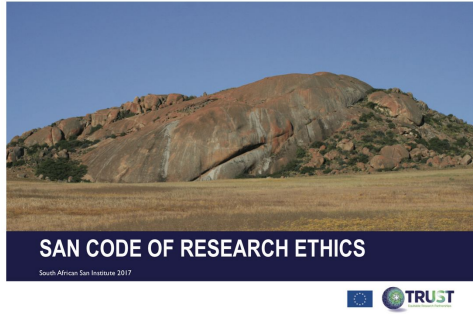
Open Hardware



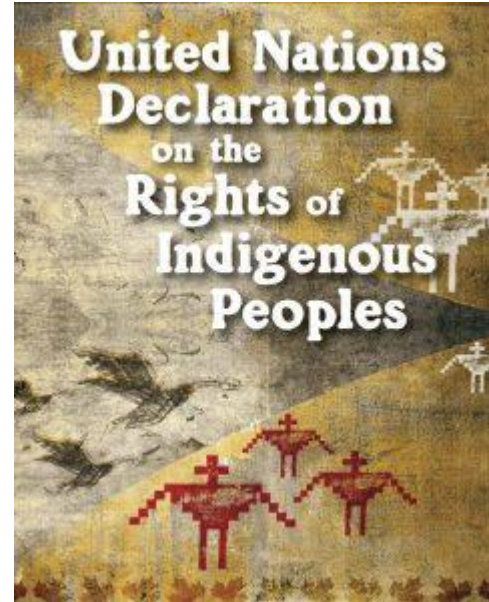
Kumasi Hive



Open Science and Indigenous Knowledge Systems



**CARE Principles
for Indigenous
Data Governance**

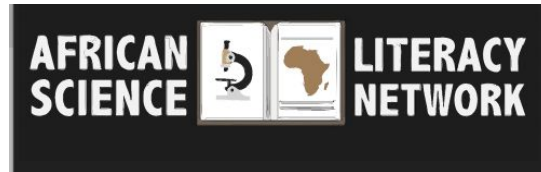


Open Science and Engagement of Societal Actors



Global Lab Network

Ghana's open science and innovation community



Open Science Infrastructures

African
NRENs



The InvenioRDM project

zenodo



Work in progress

A	B	C	D	E	F	G	H
Label	URL	Description	Open Science aspect	Host Institution	Country	related	related 2
TCC Africa training	https://africarxiv.pubpub.org/tcc-africa/ https://www.tcc-africa.org/portfolio/ https://www.tcc-africa.org/resource/		Open Access Open Science Scholarly Communication	TCC Africa	Kenya	https://www.tcc-africa.org/courses/	https://www.tcc-africa.org/advancing-open-science-in-africa-three-organizations-collaborate-to-increase-awareness-and-education/
Access 2 Perspectives community	https://access2perspectives.org/community/		Open Science Open Access Open Research Data		Germany		
Writing Hub Africa training	https://writinghubafrica.co.ke/		Open Access Open Research Data	Writing Hub Africa	Kenya		
AfricaRxiv resources & events	https://info.africarxiv.org/eider-africa-prereview-africarxiv-and-tcc-africa-develop-a-course-to-involve-more-african-researchers-in-peer-review/		Open Access Open Peer Review	AfricaRxiv, TCC; Eider Africa, eLife, PREREVIEW	Kenya various		
LIBSENSE Open Science resources and public events	https://libsense.ren.africa/en/open-science/		Open Access	LIBSENSE	Nigeria	https://zenodo.org/record/6467301#.Ynqds2BByVQ	
The Carpentries in Africa	https://carpentrieshandbook.readthedocs.io/en/latest/topic_folders/regional_communities/african_task_force.html		Open Research Data Open Source	The Carpentries in Africa	South Africa		
UCT Libraries - Research and Learning resources	http://www.researchsupport.uct.ac.za/why-open-science			UCT Library	South Africa		
UCT Research Data Services: Presentations, Workshops and Events	http://www.digitalservices.lib.uct.ac.za/dls/documentation-0	The Digital Library Services department in the Information Systems & Resources division of UCT Libraries provides regular capacity building engagements, not only passively by appointment (which is being used extensively), but also through an actively developed and run workshop programme called the "Digital Scholar series," open to the public, throughout the academic year.	Open Research Data	University of Cape Town: Digital Library Services	South Africa	https://osf.io/cz2sd/	https://uct.ac.za/libcal.com/calendar/libaryevents?t=q&q=Digital%20Scholar&cid=497&cal=497&inc=0
	https://africaosh.com/		Open Hardware	AfricaOSH			
	https://trendinafrica.org/		Open Hardware	TRENDAfrica			

Contributors so far

- Louise Bezuidenhout, DANS
- Joy Owango, TCC Africa
- Niklas Zimmer, UCT Digital Library
- Jo Havemann, Access 2 Perspectives & AfricArXiv

Open Syllabus: UNESCO Recommendation on Open Science

Jennifer M. Miller, PhD

Developed for Open Education for a Better World (OE4BW)
with project mentor Geoff Cain

SDG
17

Working Group on Open Science Capacity Building
May 12, 2022

A course to reach early career researchers (ECRs)

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Seeking STEM faculty, open science champions

Image credit: "2008 Ethics in the Science Classroom (Summer Workshop)" by NWABR is licensed under CC BY 2.0

Potential audiences

- Special topics courses by STEM faculty open science champions for a lab or academic department
- Maymester or Summer Session for incoming or prospective STEM graduate students
- Community college courses for current or retired STEM educators and practitioners

Recommendation

UNESCO
Recommendation
on Open Science.



SDG 17 Partnerships for the Goals

Strengthen the
means of
implementation and
revitalize the global
partnership for
sustainable
development

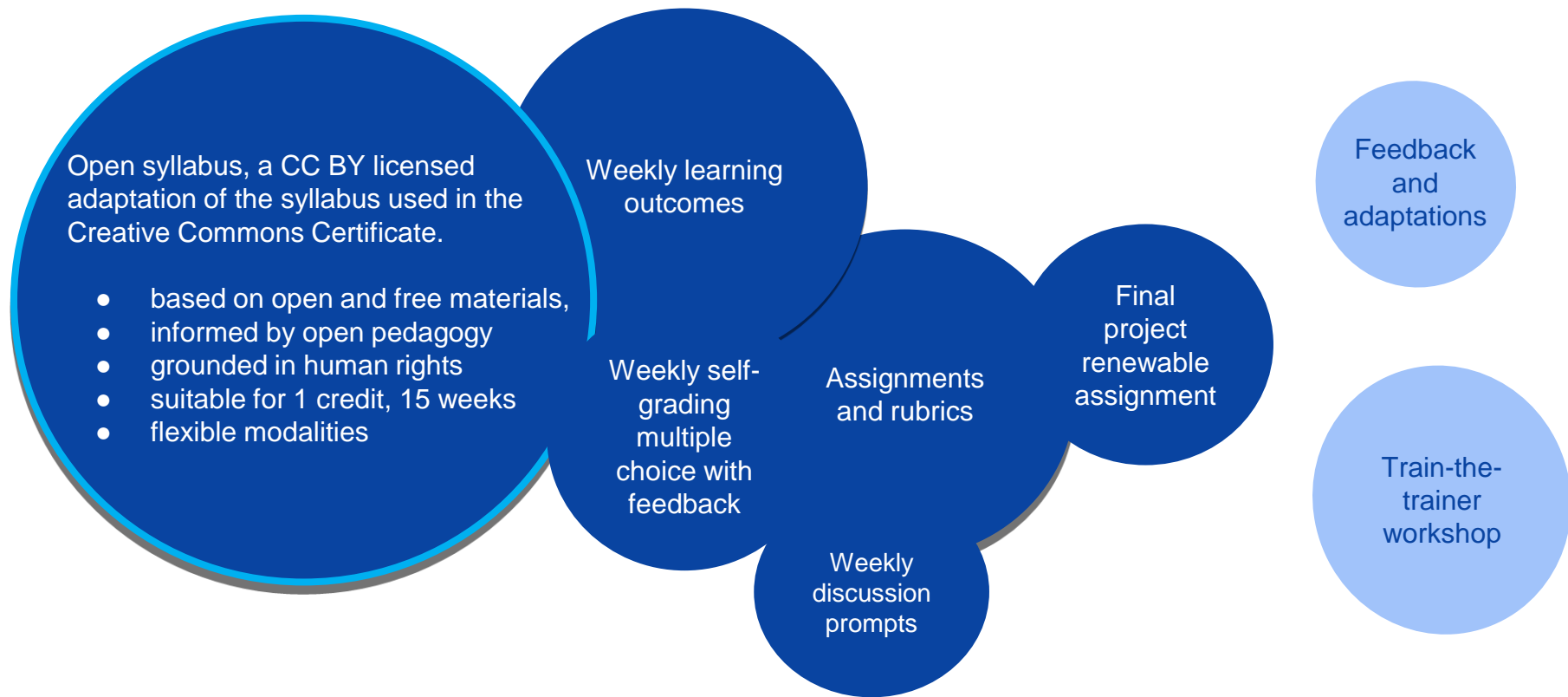


Problem

How will Open Science
reach early career
researchers “at the
bench”?



An open syllabus for teaching Open Science through the
lens of the UNESCO Recommendation on Open Science



Dark blue: Hosted now on [Wikiversity](#) and [Zenodo](#).

Light blue: Ongoing, coming in July

Wikiversity UNESCO Recommendation on Open Science

https://en.wikiversity.org/wiki/UNESCO_Recommendation_on_Open_Science

- Learning Outcomes
- Readings
- Discussion Question
- Five self-check multiple choice questions per week
- Links to materials hosted on Zenodo

Miller, Jennifer. (2022). Open Syllabus: UNESCO Recommendation on Open Science (1.0).
Zenodo. <https://doi.org/10.5281/zenodo.5823531>

Miller, Jennifer. (2022). Question Bank for Open Syllabus UNESCO Recommendation on Open Science (1.0) [Data set].
Zenodo. <https://doi.org/10.5281/zenodo.5832063>

Week 1: Science in The Universal Declaration of Human Rights (with answers)

Learning Outcomes (with answers)

- Consider the role of human rights in scientific education
- Explain the five main parts of the "Human Right to Science" in the Universal Declaration of Human Rights

Readings (with answers)

Universal Declaration of Human Rights, United Nations, 10 December 1948, Copyright © United Nations.org
Universal Convention for the Protection of Cultural Property, United Nations Educational, Scientific and Cultural Organization, 1954, Copyright © UNESCO
Optional: International Commission on Intellectual Property Rights, United Nations Educational, Scientific and Cultural Organization, 1974, Copyright © UNESCO
Optional: International Commission on Intellectual Property Rights, United Nations Educational, Scientific and Cultural Organization, 1974, Copyright © UNESCO

Discussion Question (with answers)

How is the role of human rights in scientific education before you? How do you experience it? How do you see the role of human rights in scientific education? How do you see the role of human rights in scientific education? How do you see the role of human rights in scientific education?

Self-check Questions (with answers)

1. Which of the following is not a part of the Universal Declaration of Human Rights? (with answers)
2. How does the Universal Declaration of Human Rights relate to science? (with answers)
3. Which of the following is not a part of the Universal Declaration of Human Rights? (with answers)
4. Which of the following is not a part of the Universal Declaration of Human Rights? (with answers)
5. Which of the following is not a part of the Universal Declaration of Human Rights? (with answers)

Image credit: "Screen Capture: Open Syllabus for Open Science on Wikiversity" by Jennifer Miller is licensed under CC BY.

Next steps

- ❑ Currently seeking faculty interested in adopting the course.
- ❑ Train-the-trainer workshop “[Prepare to Teach Open Science Through the Lens of the UNESCO Recommendation](#)” at FORCE11 Scholarly Communication Institute (FSCI2022) July 26-28, 2022.
- ❑ Consider offering train-the-trainer workshops in other settings.
- ❑ Adapt syllabus for additional contexts: geography, discipline, setting.

Open Syllabus: UNESCO Recommendation on Open Science

Available on [Wikiversity](#) and [Zenodo](#)

To collaborate on adoption or adaptation of this open
educational resource, contact

jennifer.moore.miller@gmail.com

SDG
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Capacity Building for Open Science In Asia and the Pacific Region

12 May 2022

Eunjung Shin



Introduction

- Open Science, transition in scientific enterprise (research values as well as practices), requiring new knowledge, skills, and mindsets of PEOPLE
- Asia and the Pacific, fast-growing areas in population, education, etc. w/ maintaining diverse languages, ethnicities and cultures



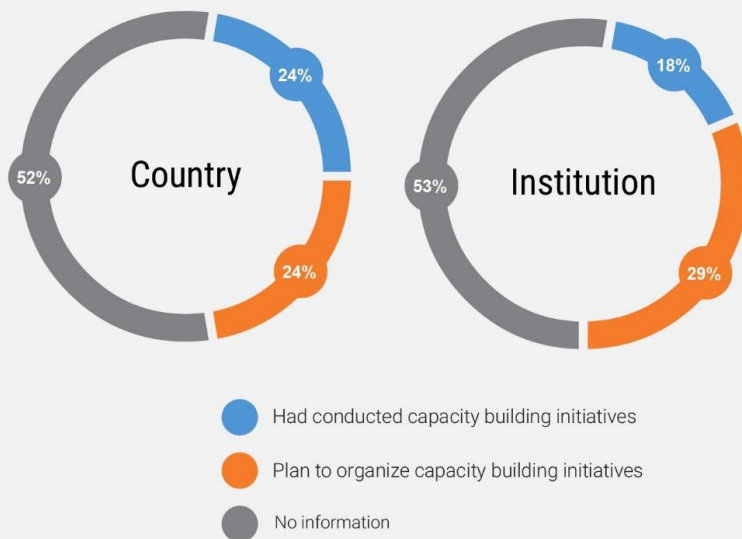
Previous/Ongoing Activities

- **Capacity Building for Open Science discussed in Asia and the Pacific**
 - Regional Multi-stakeholder Workshop in 2020, organized by the UNESCO Regional Science Bureau for Asia and the Pacific (UNESCO Jakarta Office) in September 2020
 - APEC PPSTI's Policy Sharing Webinar, co-organized with ISC-ROAP (International Science Council Regional Office for Asia and Pacific) in August 2020
 - Annual meetings organized specialized regional networks (e.g. COAR, APRI, APAN, and so on)
 - STEPAN (Science, Engineering, Technology and Innovation Policy Asia and the Pacific Network), resumed in 2021 with setting a key action area on open science

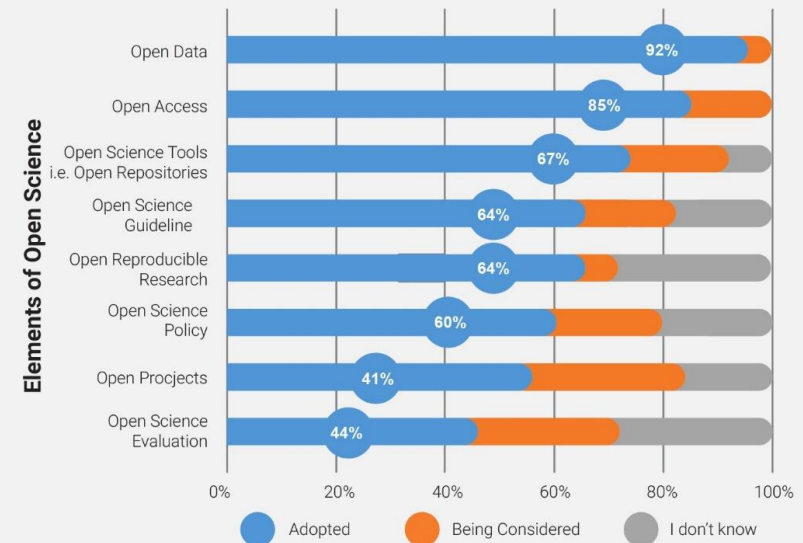
Facts and Thoughts for Near Future (I)

- UNESCO Regional Science Bureau for Asia and the Pacific's survey, conducted right after the Regional Multi-stakeholder Workshop in 2020

Conducted Open Science capacity building initiatives



Capacity building initiatives conducted/planned to promote open science





Facts and Thoughts For Near Future (2)

- Organizational and institutional capacities to implement open science beyond technical skills and digital literacy
- A clustered approach to scale up current capacity building initiatives and connecting them each other based on similarities
 - contribution of UNESCO as a glocal hub