

5 October 2022



THE FUTURE IS OPEN

WHY OPEN
SCHOLARSHIP IS
GOOD FOR YOU
AND YOUR
CAREER

Hardy Schwamm – Open Scholarship Librarian

@hardyschwamm

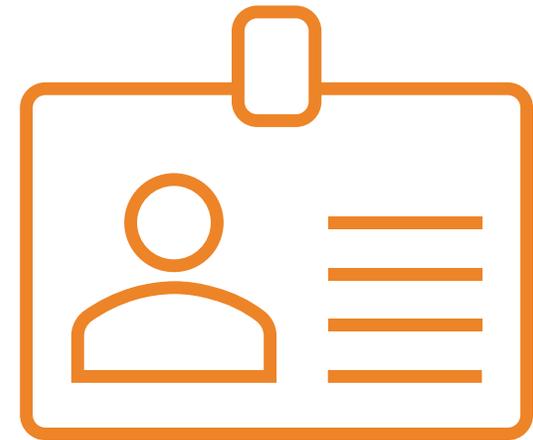
ABOUT ME

- Hardy Schwamm, Open Scholarship Librarian
- Started at NUIG in August 2019
- First role of its kind in Ireland
- Member of Open Scholarship Community Galway
- @hardyschwamm on Twitter
- Email me: hardy.schwamm@nuigalway.ie





ABOUT YOU



slido



I see myself primarily as a

ⓘ Start presenting to display the poll results on this slide.

slido



**What do you associate with Open
Scholarship / Open Science?**

① Start presenting to display the poll results on this slide.

AGENDA

- What is Open Scholarship and why is it important?
- The Pillars of Open Scholarship
- Open Scholarship in action 1: Open Education
- Open Scholarship in action 2: Open Access publishing
- How can I be more Open now?



WHAT IS OPEN SCHOLARSHIP?



- Umbrella term for many Open practices
- Has evolved from a collection of small, localised efforts and practices to a broad international network
- Open Scholarship is made possible through digital technology and can get traced back to early 1990s
- Principal supporters are institutions, organizations, governments, practitioners, advocates, and funders

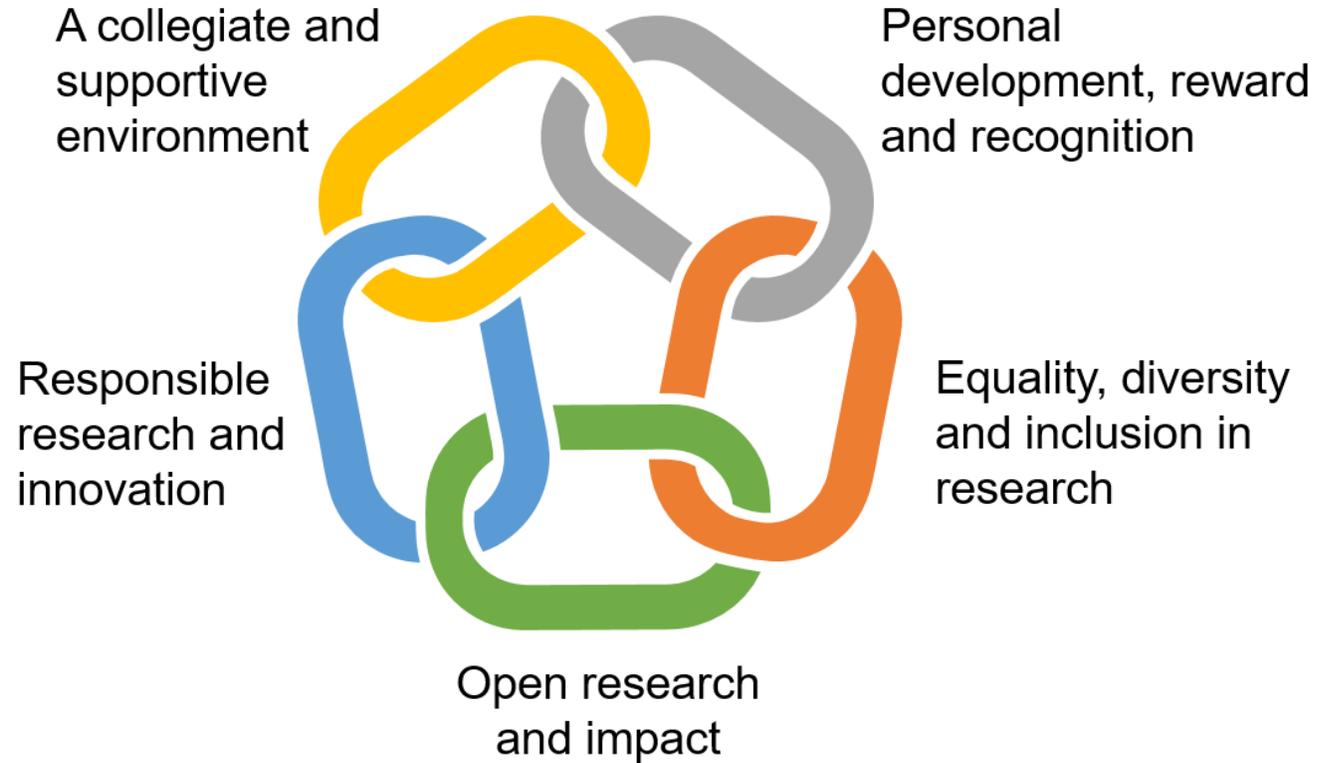
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Open Scholarship
=
Open Research
=
Open Science





OPEN AS PART OF RESEARCH CULTURE

EIGHT OPEN SCIENCE AMBITIONS OF THE EU COMMISSION

The EU's open science policy

8 ambitions of the EU's open science policy

Future of open science under Horizon Europe

Tracking open research trends - Open Science Monitor

Latest

Documents

and its impacts supporting and acknowledging open knowledge practices.

8 ambitions of the EU's open science policy

Open Data

FAIR (Findable, Accessible, Interoperable and Re-usable data) and open data sharing should become the default for the results of EU-funded scientific research.

European Open Science Cloud (EOSC)

The (EOSC is a trusted, virtual, federated environment that cuts across borders and scientific disciplines to store, share, process and reuse research digital objects (like publications, data, and software) that are Findable, Accessible, Interoperable and Reusable (FAIR). EOSC brings together institutional, national and European stakeholders, initiatives and infrastructures.

[Read more about the EOSC](#)

Pillars of Open Scholarship

Open Publishing

Open Infrastructure

FAIR Data & Open outputs

Research Integrity

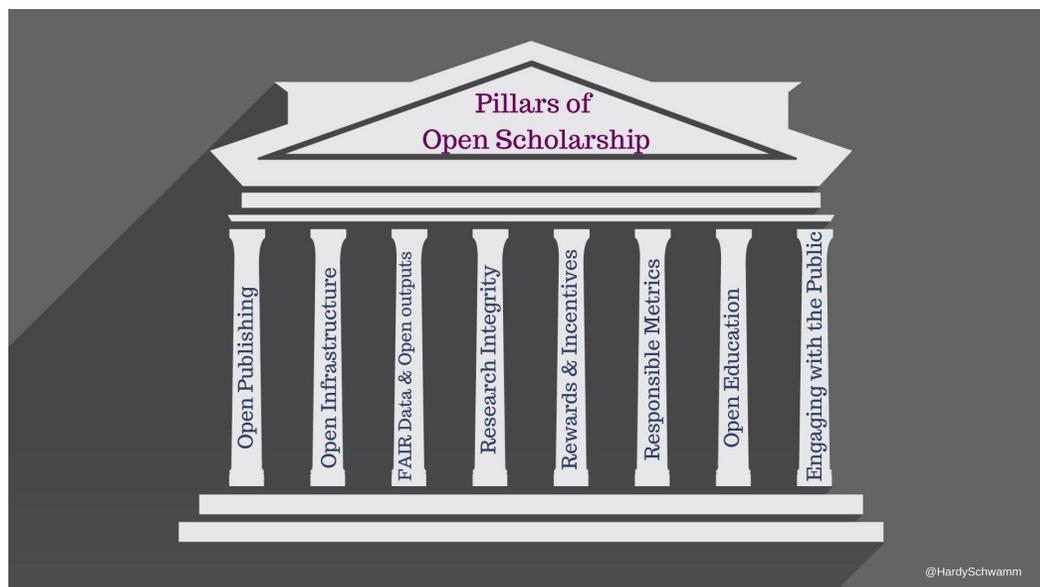
Rewards & Incentives

Responsible Metrics

Open Education

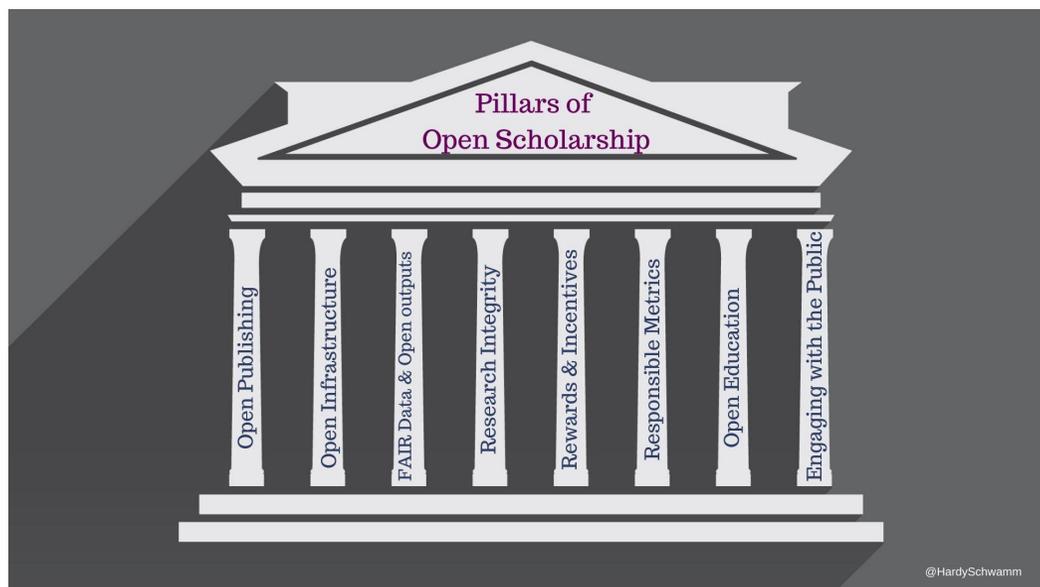
Engaging with the Public

THE EIGHT PILLARS OF OPEN SCHOLARSHIP



- Open Publishing
- Open Infrastructure
- FAIR Data & Open Publishing
- Research Integrity
- Rewards & Incentives
- Responsible Metrics
- Open Education
- Engaging with the Public (Citizen Science)

THE EIGHT PILLARS OF OPEN SCHOLARSHIP



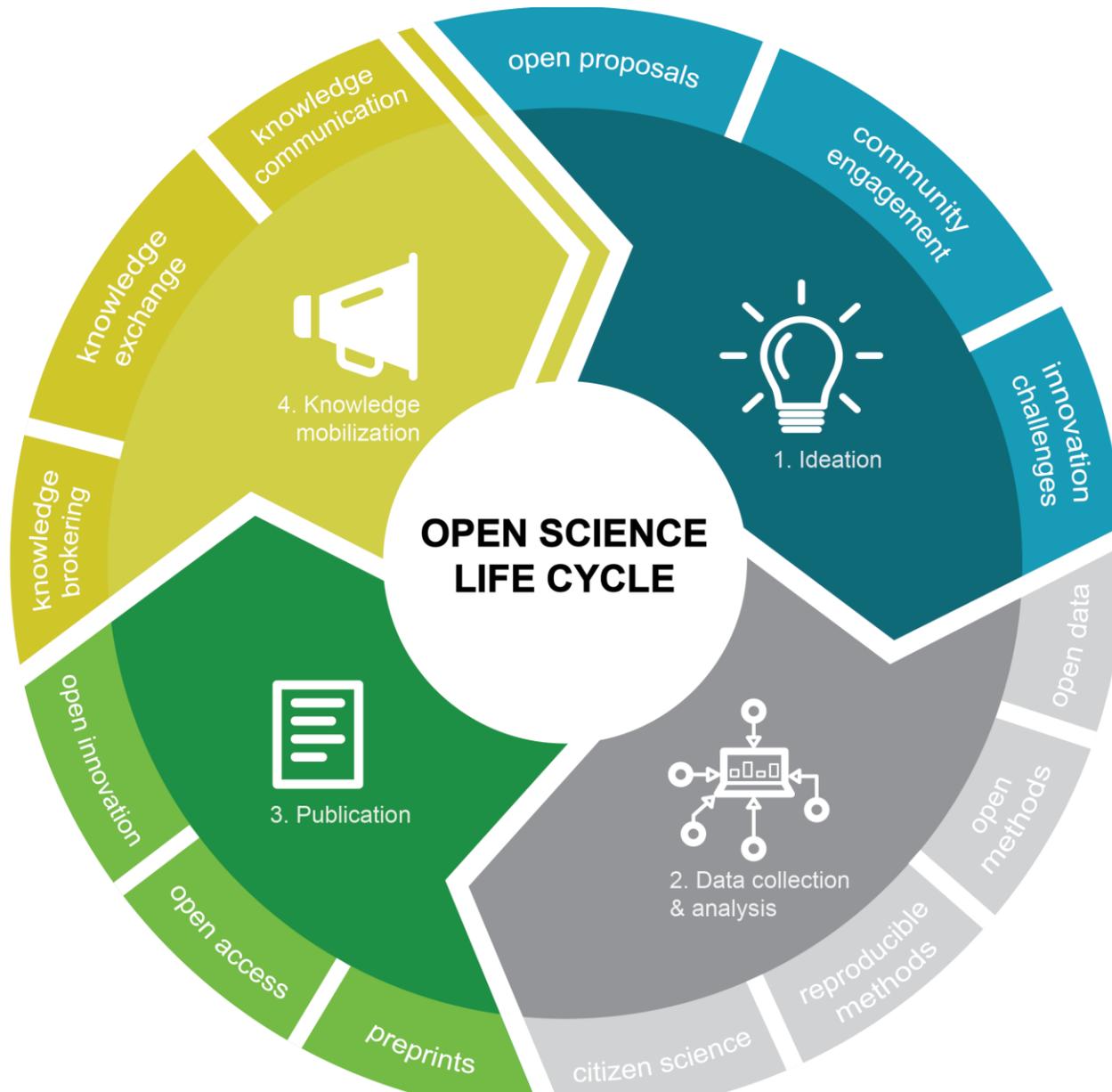
■ Open Publishing

- Open Infrastructure
- FAIR Data & Open Publishing
- Research Integrity
- Rewards & Incentives
- Responsible Metrics

■ Open Education

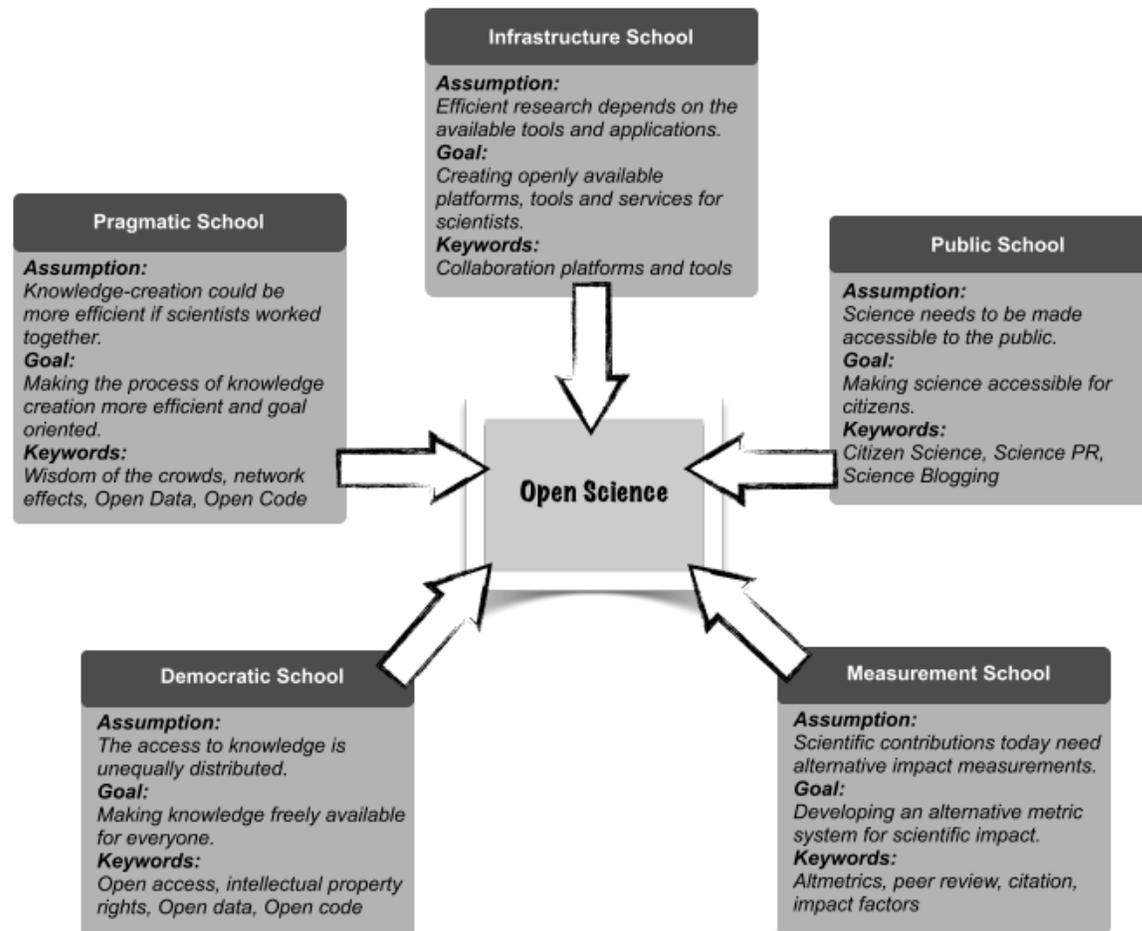
- Engaging with the Public (Citizen Science)

OPENING THE LIFE CYCLE



Source: [Government of Canada](#)

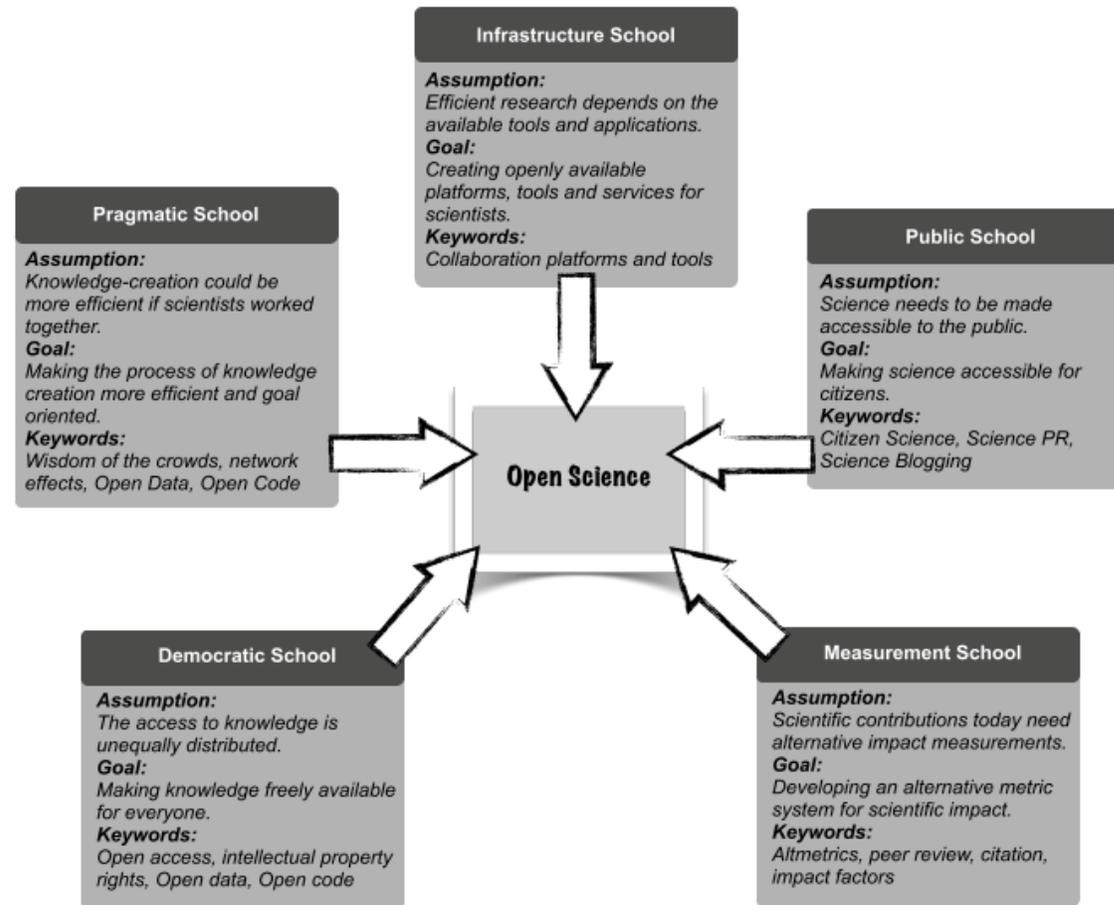
FIVE OPEN SCHOLARSHIP SCHOOLS OF THOUGHT



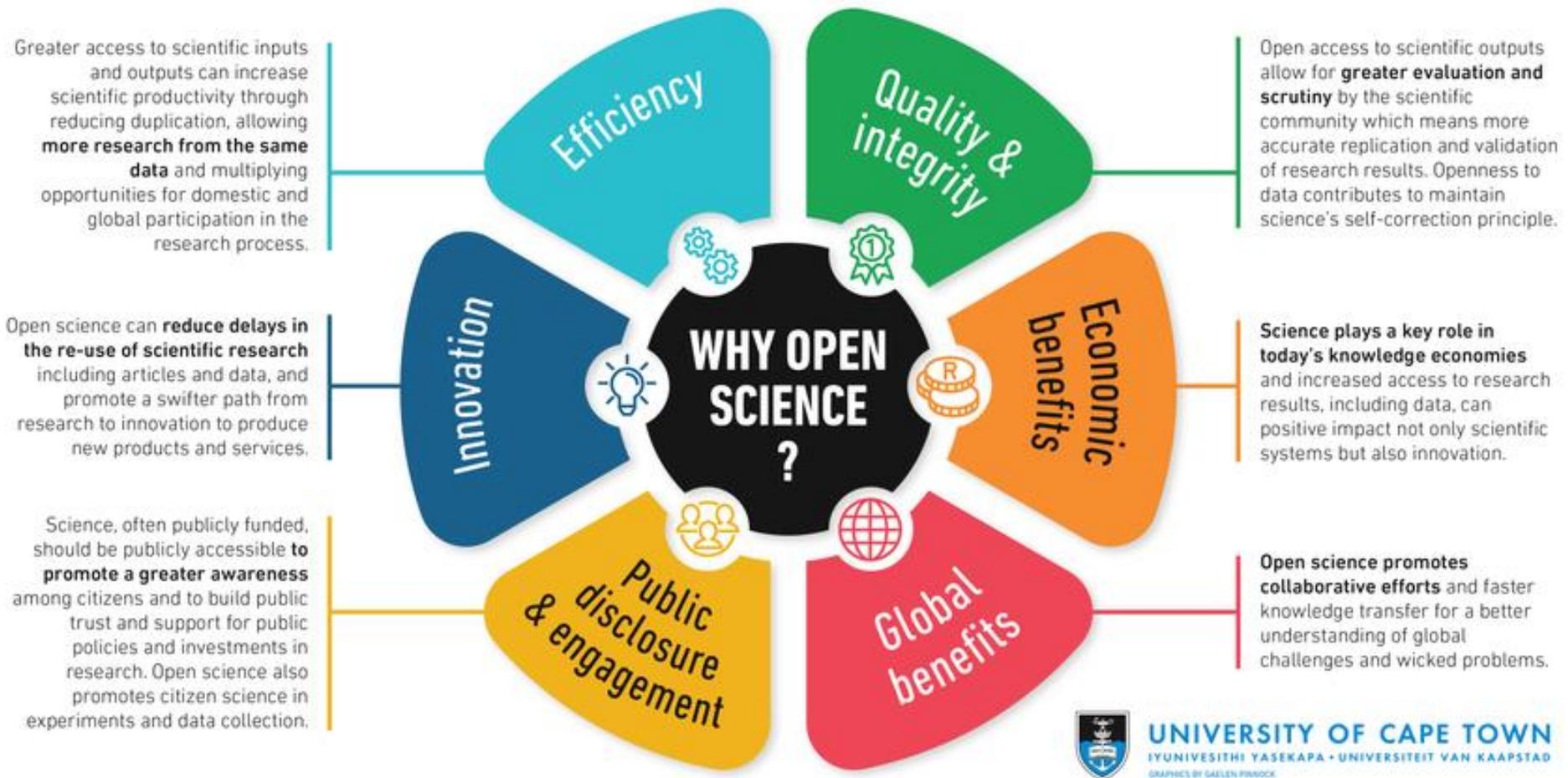
FIVE OPEN SCHOLARSHIP SCHOOLS OF THOUGHT

- Main argument for OS:
Scientific knowledge and education is a product of social collaboration and its ownership belongs to the community

 1. Easier (Infrastructure)
 2. More accessible (Public)
 3. Impact (Measurement)
 4. More equal (Democratic)
 5. More efficient (Pragmatic)



Fecher and Friesseke (2013). Five schools of thought in Open Scholarship. (CC BY-NC)



Open Scholarship broadly refers to the **process, communication, and re-use** of research and educational material as practised in **any scholarly discipline**, and its inclusion and role **within wider society**.

Adapted from Foundations for [Open Scholarship Strategy Development](#)

DEFINITION



OPEN SCHOLARSHIP RELATES TO:

3

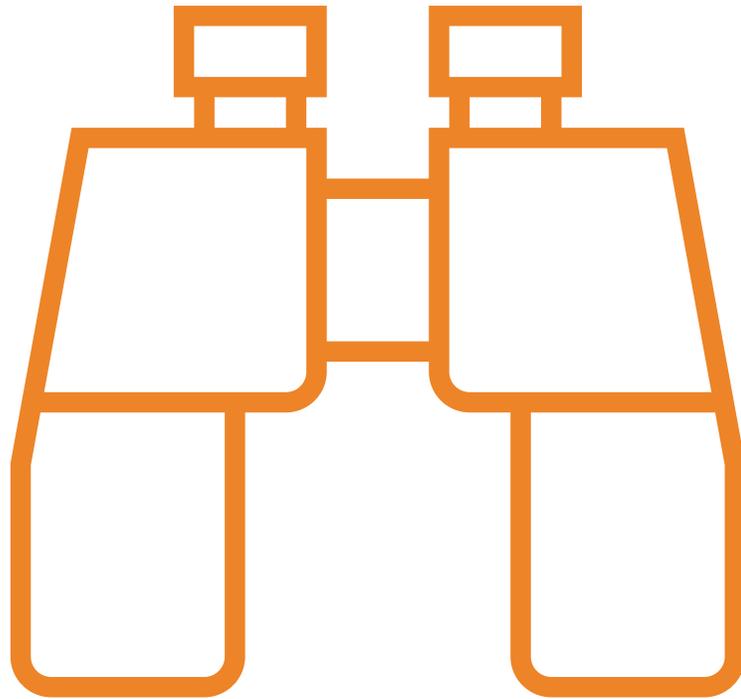
- Research activities
- Educational practices
- Scholarly communications



OPEN SCHOLARSHIP!



BUT WHY NOW?



WHY OPEN SCIENCE?

- Research
Transparency
- Reproducibility!



SCIENCE HAS A PROBLEM. EXAMPLE 1: HOW MANY SCIENTISTS COMMIT FRAUD?

1. How many scientists commit to having fabricated or falsified data or sources?
 - One in 1000
 - One in 50
 - One in 10
2. How many scientists believe their colleagues have committed scientific fraud?
 - 3%
 - 9%
 - 14%

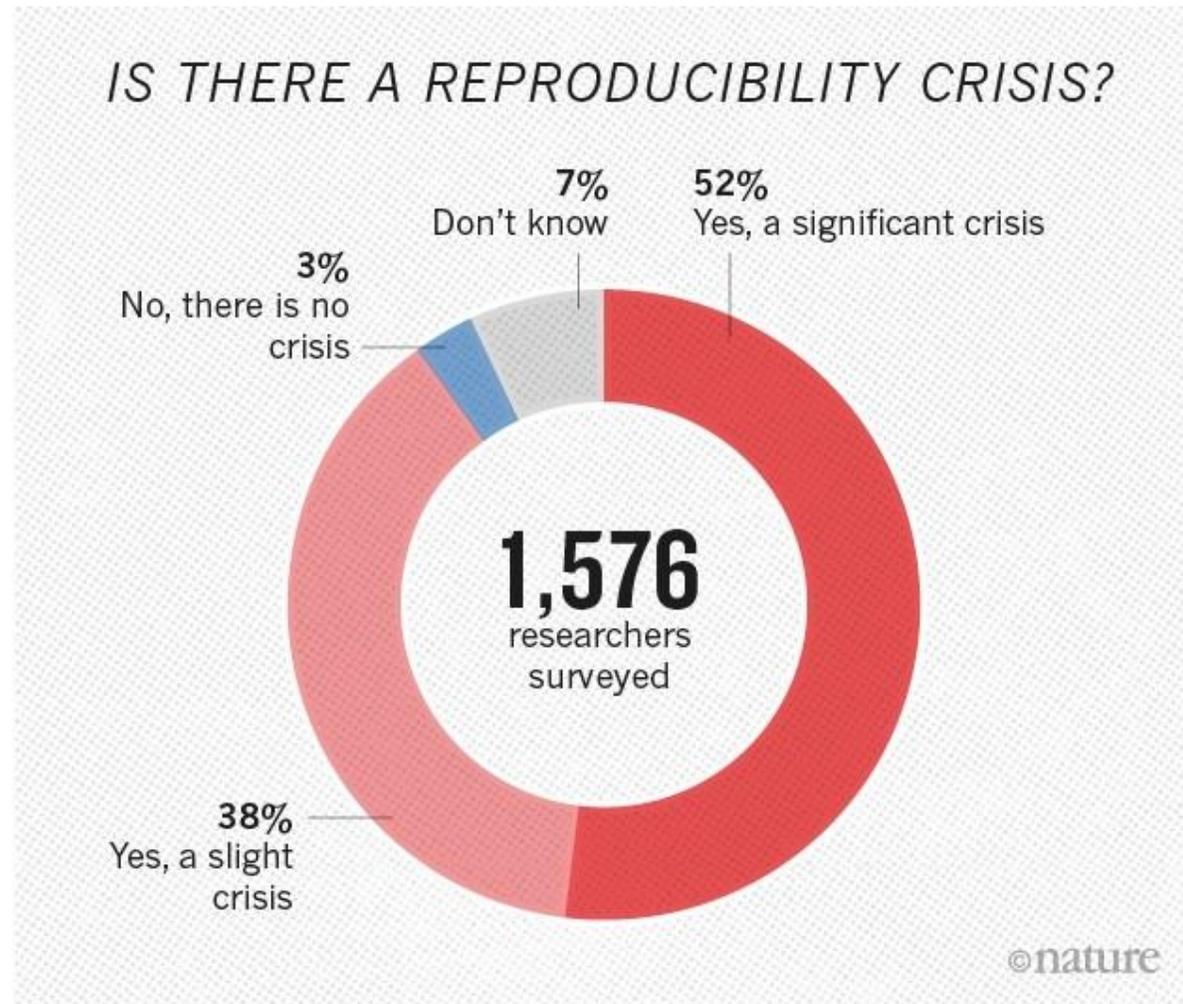
FRAUDULENT BEHAVIOUR



- One in 50 (1.97% of scientists) commit to having fabricated or falsified data
- 14.12% believe their colleagues have committed scientific fraud

Source:

D Fanelli: How Many Scientists Fabricate and Falsify Research? A Systematic Review and Meta-Analysis of Survey Data. PLOS One, 2009, <https://doi.org/10.1371/journal.pone.0005738>

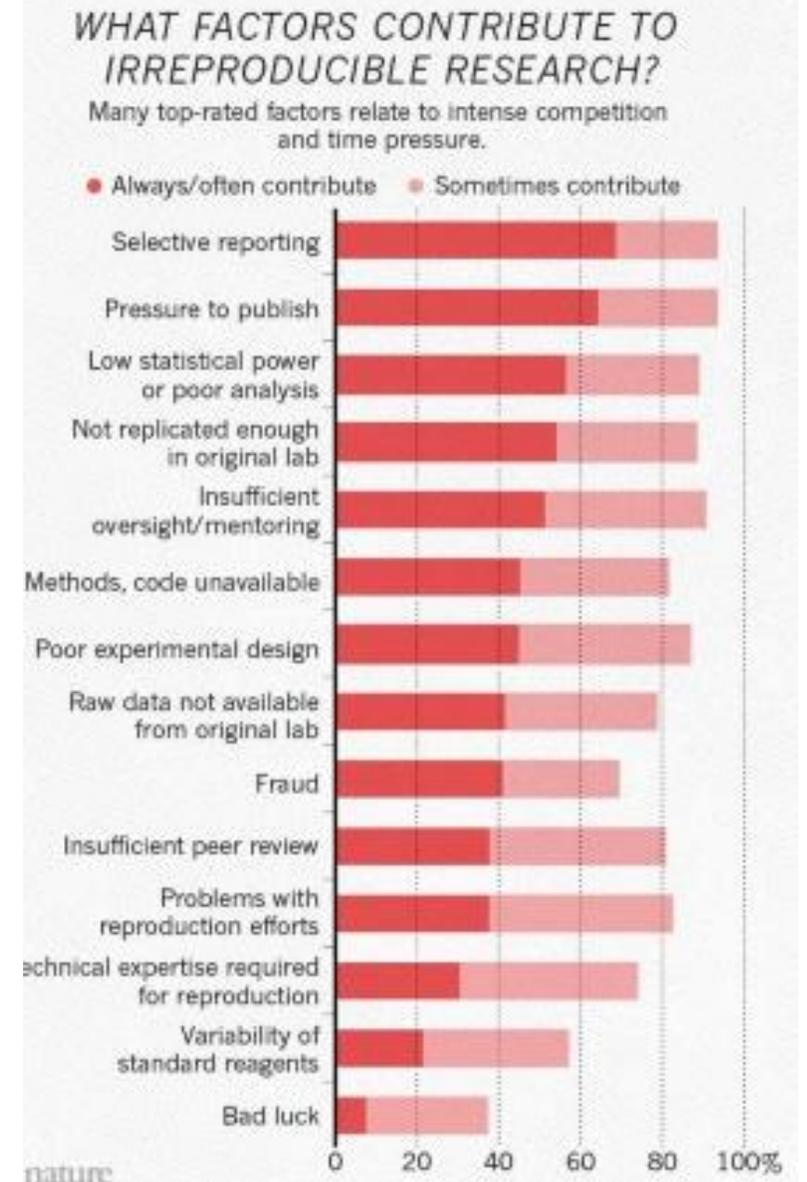
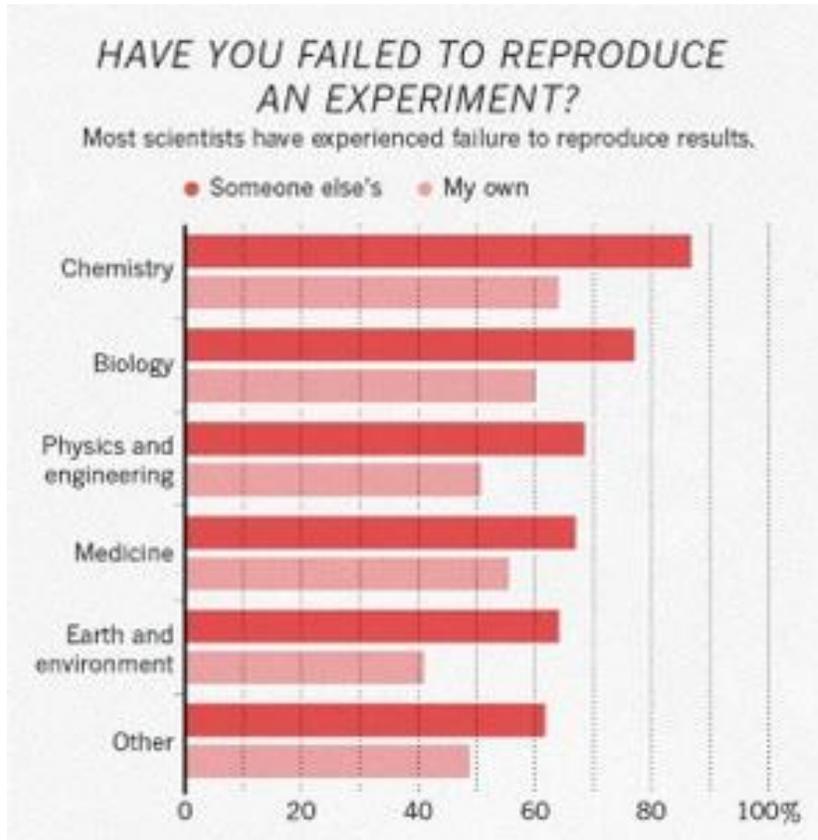


<https://www.nature.com/articles/533452a>, 2016

REPRODUCIBILITY
CRISIS



REPRODUCIBILITY CRISIS IN DETAIL

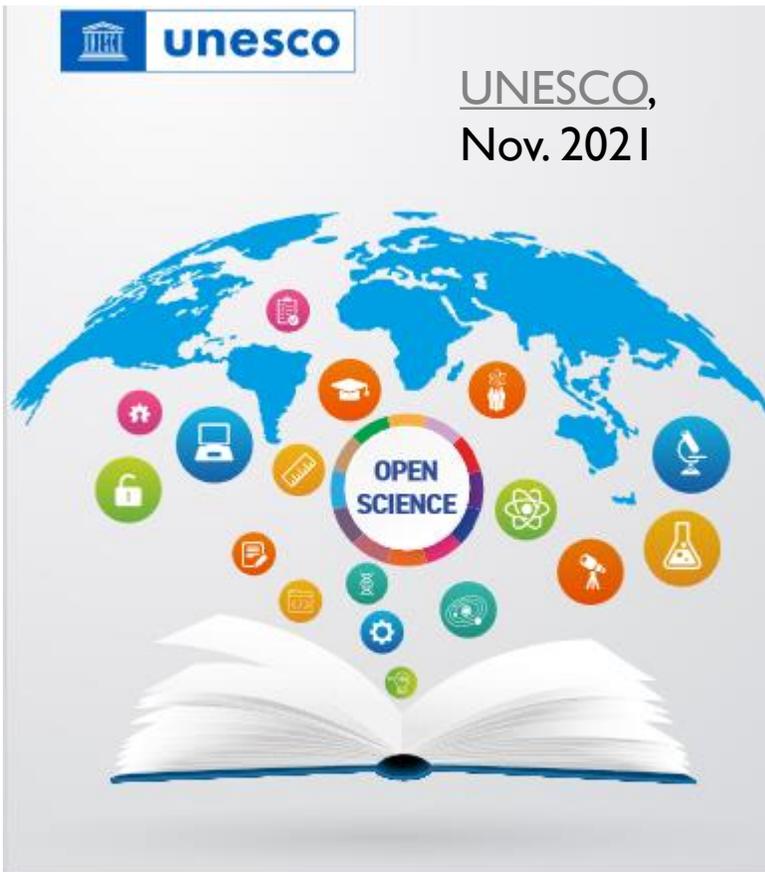


CURRENT ISSUES WITH SCIENTIFIC PRACTICE AND INTEGRITY

- “Publish or Perish”. The need to publish in high impact journals
- Journals only looking for novel topics and positive research outcomes
- The need for citations to prove academic impact
- The temptation to tweak data, results and methods to get the “right” results

DRIVERS OF OPEN SCHOLARSHIP

TOP-DOWN POLICIES



**UNESCO Recommendation
on Open Science**



EU Commission



[Home](#) > [What we offer](#) > [Supporting a healthy research and](#)

Open research

UKRI

DRIVERS OF OPEN SCHOLARSHIP BOTTOM UP



About Community Resources Activities Join UKRN Contact



Welcome to the UK Reproducibility Network

The UK Reproducibility Network (UKRN)

The UK Reproducibility Network (UKRN) is a national peer-led consortium that aims to ensure the UK retains its place as a centre for world-leading research. We do this by investigating the factors that contribute to robust research, promoting training activities, and disseminating best practice. We also work collaboratively with various external stakeholders to ensure coordination of efforts across the sector.

We seek to understand the factors that contribute to poor research reproducibility and replicability, and develop approaches to counter these, in order to improve the trustworthiness and quality of research. These issues affect all disciplines, so we aim for broad disciplinary representation. We believe that ongoing efforts to address these issues represent an opportunity to improve our research by reforming culture and practice.

UKRN is coordinated by a Steering Group and supported by an Advisory Board, with representation across the UK through researcher-led local networks at several institutions, many of which have formally joined UKRN.

UKRN

Open Science Communities NL



Image CC-BY-ND Anita Eerland

Open Scholarship Community Galway

A community of Open enthusiasts from
Galway and the West of Ireland

OSCG



Search Psychology

Study Research About Us People

Psychology > Research > Open Science

Open Science

PROSPR - We are an informal support group within Psychology, with the objective of Promoting Open Science Practices within the department and beyond.

We meet informally and discuss how open science principles can be implemented effectively, to improve research transparency across different fields of psychology.

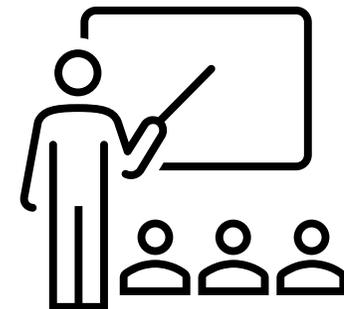
We encourage awareness of Open Science ideas and training opportunities. We think that this is suitable for both early-career scientists - especially where you can embed best practices in your career training - and senior academics.

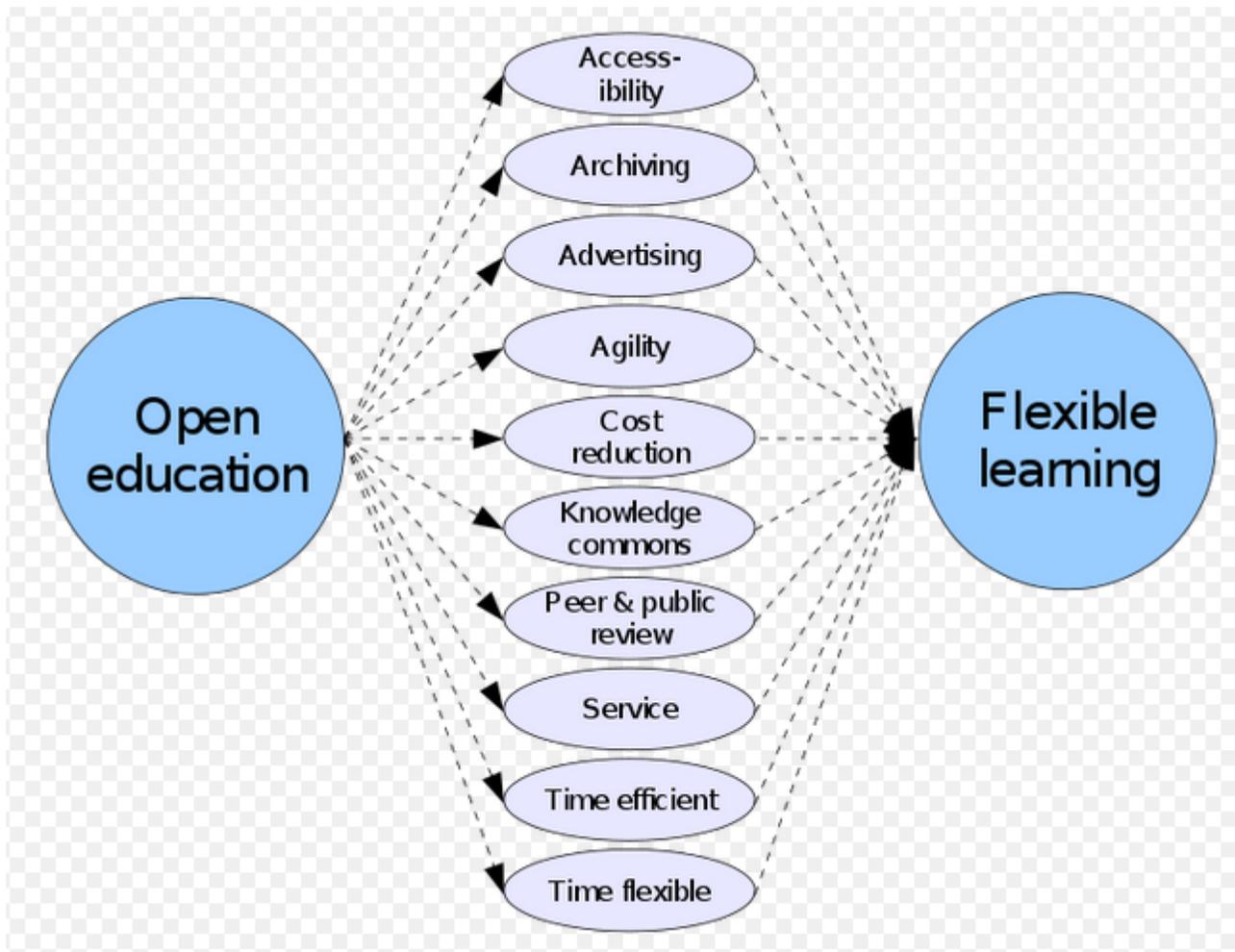
PROSPR – Promoting Open Science
Practices Lancaster University

OPEN SCHOLARSHIP
IN ACTION



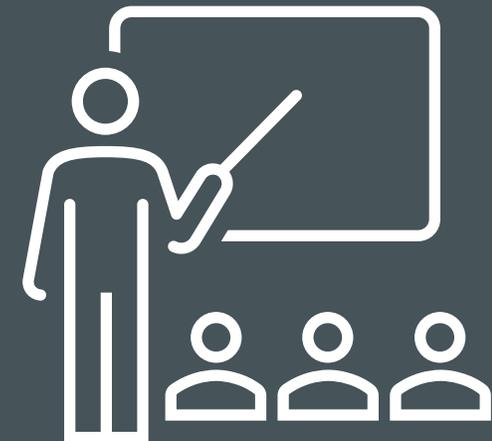
OPEN
EDUCATIONAL
RESOURCES





WHY OPEN EDUCATION?

Access, Flexibility & Inclusion

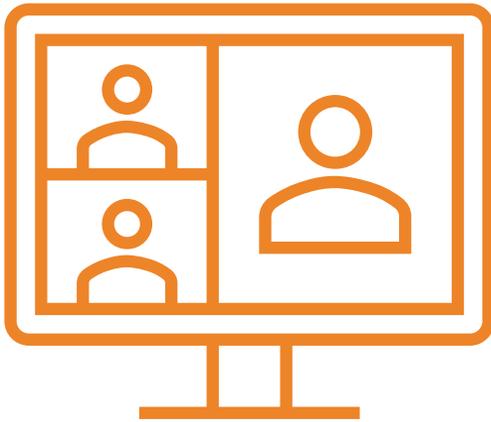


THE UNIVERSAL DECLARATION OF HUMAN RIGHTS

“Higher education shall be equally accessible to all”

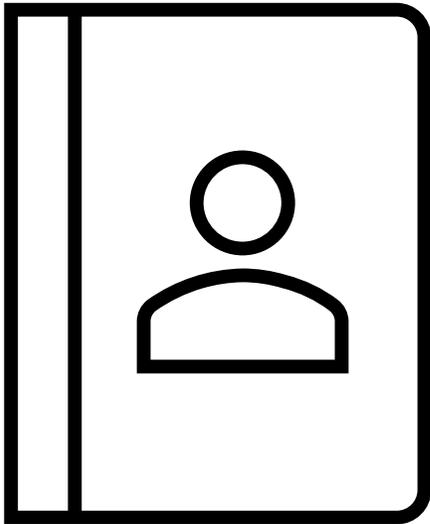
Article 26 of The Universal Declaration of Human Rights

OPEN EDUCATION



- Part of a broader movement related to the openness of teaching methods and the promotion of learner autonomy
- Favours widening participation and inclusiveness in society
- Education for all: with free or very low cost

CURRENT REALITY

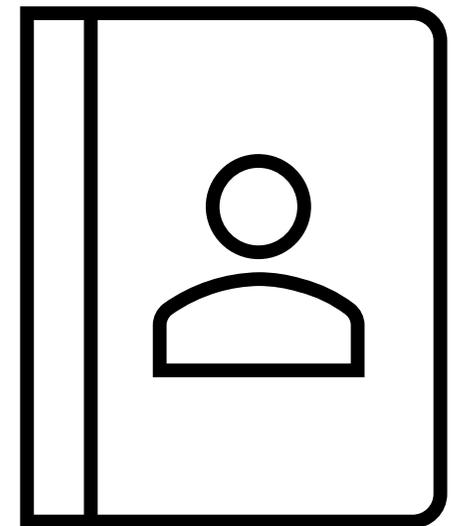
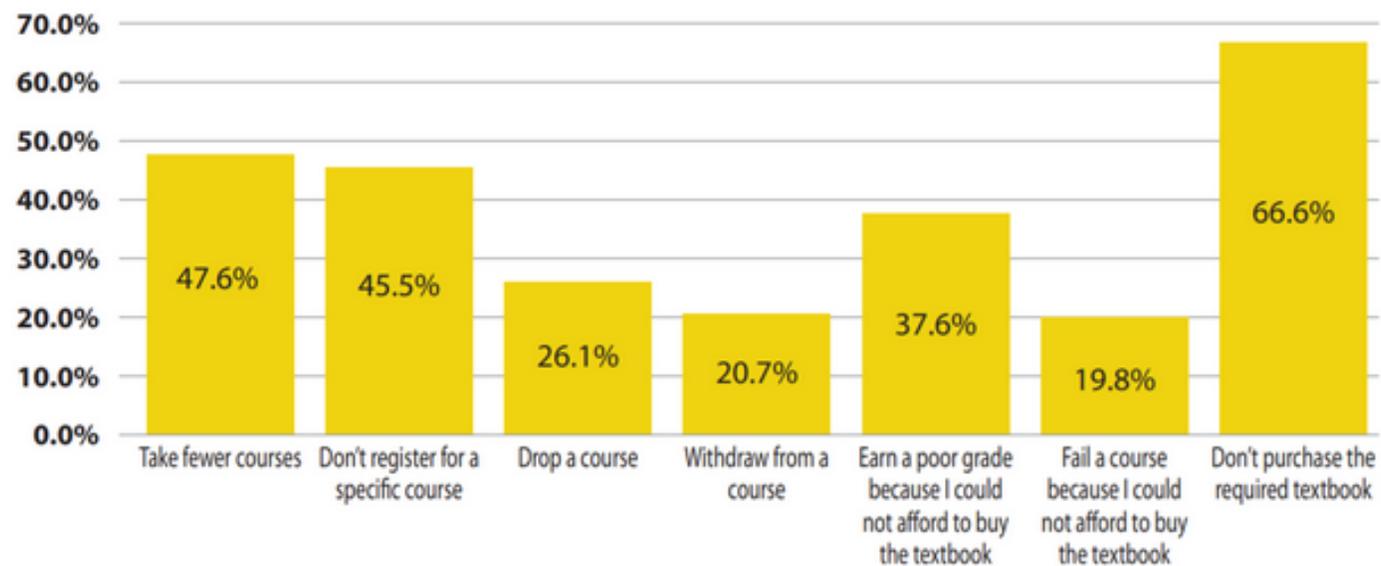


- Educational materials market is held captive by legacy publishing models
- Many students are without access to their required materials
- Students are expected to spend £60 per month on textbooks
- Libraries cannot afford to buy all ebooks that are needed (see [ebooks SOS campaign](#))

IMPACT OF HIGH COST EDUCATIONAL MATERIAL ON STUDENTS

- In 2020, 65 percent of students surveyed reported skipping buying a textbook because of cost ([Source](#))

Chart 1: Impact of Textbook Costs on Students



Source: <https://guides.library.vcu.edu/acc/socialjustice>



- Open textbooks are free academic texts published with an open copyright licence.
- They can contain a mix of different formats, such as text and interactive video.
- They can be adapted and modified to suit particular courses or modules.
- Open textbooks are sometimes but not always peer-reviewed

OPEN TEXTBOOKS TO THE RESCUE

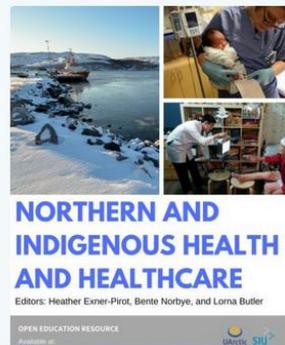
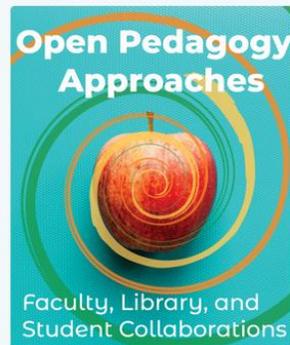
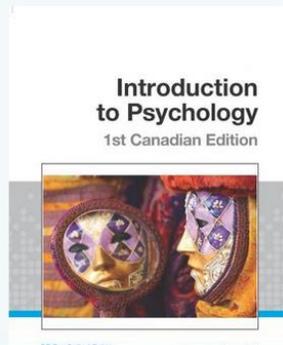
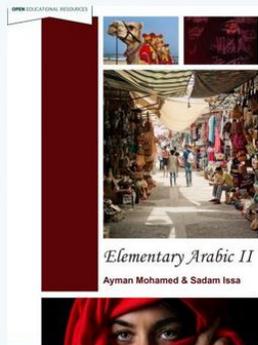
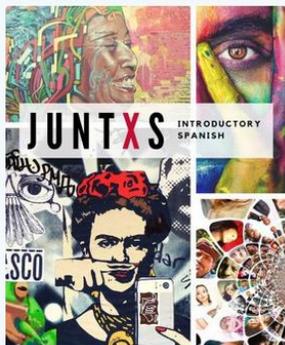
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This directory provides an index of **3,347** books published across **114** Pressbooks networks. Learn to use the Directory by taking a [self-guided tour](#) or reading [our guide](#).

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GO

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The Open Textbook Library is turning 10, and you're invited to the birthday bash! Join us in celebrating this milestone along with higher education's increasing engagement with open educational resources and practices over the past decade. Thursday, April 14, 2-3 pm CT Register: <https://z.umn.edu/otl10>

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Social Sciences



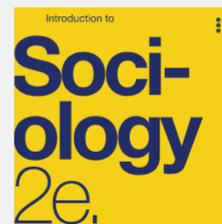
American Government 2e



American Government 3e



Introduction to Anthropology



Introduction to Sociology 2e



Introduction to Sociology 3e

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<http://www.merlot.org>

OPEN SCHOLARSHIP
IN ACTION



OPEN ACCESS
PUBLISHING



PLASMA PROCESSES AND POLYMERS

FULL PAPER

The chemistry and topography of stabilized and functionalized graphene oxide coatings

Firas Awaja ✉, Manoj Tripathi, Tsz-Ting Wong, Timothy O'Brien, Giorgio Speranza

First published: 01 August 2018 | <https://doi.org/10.1002/ppap.201800084> | Citations: 8

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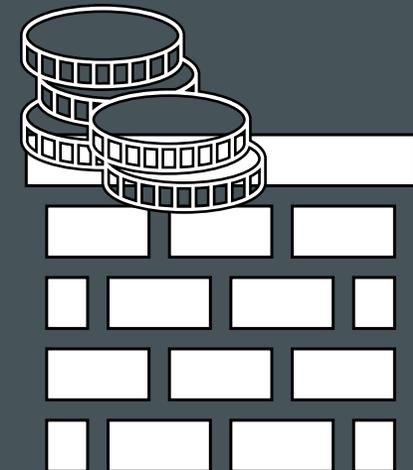
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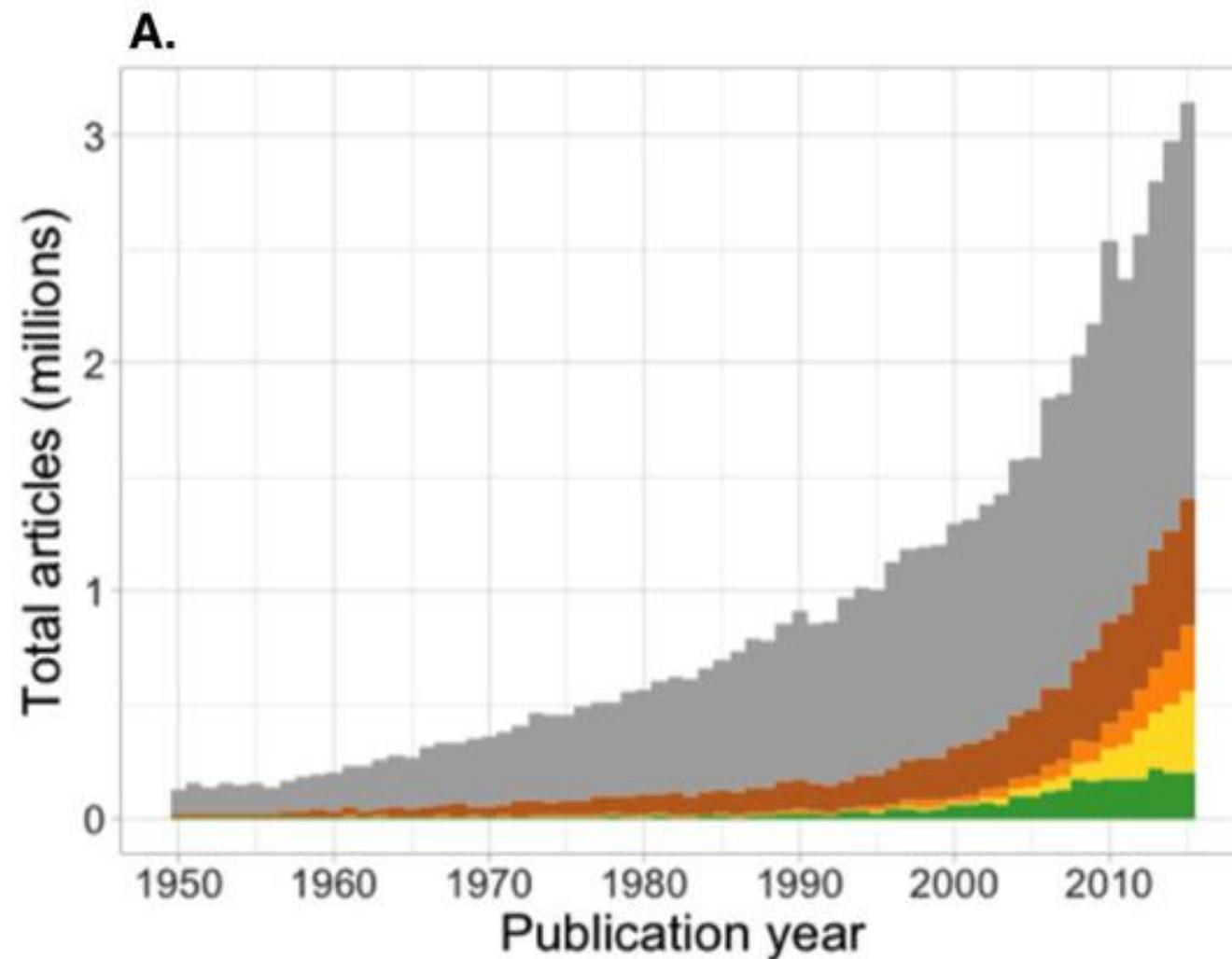
PAPER BEHIND A PAYWALL



STATE OF OPEN ACCESS



Piwowar et al. 2018.
<https://peerj.com/articles/4375>



UHI OPEN ACCESS RATE



Source: SciVal

University of the Highlands and Islands

United Kingdom | [More details on this Institution](#)

2016 to >2021



[All subject areas](#)

Summary

Topics

Collaboration

Published

Viewed

Overall research performance

936 ▲

Scholarly Output ⓘ

64.5% All Open Access

[View list of publications](#)

United Kingdom ☆

2016 to >2021



[All subject areas](#)

Summary

Topics

Collaboration

Published

Overall research performance

1,417,669 ▲

Scholarly Output ⓘ

64.2% All Open Access

[View list of publications](#)



HAVE YOU
PUBLISHED?

slido



Have you published?

ⓘ Start presenting to display the poll results on this slide.

WHY SHOULD I PUBLISH OPEN ACCESS?

- Good for you!
 - Improves rigour and credibility of your research (especially if research data is available)
 - Higher visibility and citation advantage of 18% ([source](#))
 - Widens opportunities for funding and international collaboration
 - Complies with institutional and funder mandates
- Good for society
 - Everyone can read your research: Public disclosure and engagement
 - Increases trust in research and science
 - Economic benefits: Innovation and knowledge transfer



YOUR LIBRARY WILL HELP YOU WITH OPEN ACCESS PUBLISHING

Research Publishing (Open Access)

Enter Search Words

Open access compliance and REF 2021

Introduction

Useful Tools

Funding for OA publishing

Preprints (pros & cons)

REF requirements

Funding body requirements

Publisher policies

Licences

OA repositories

[Open Access repository portals](#)

[Repository examples](#)

[Repository requirements](#)

[Open Access Directories](#)

Plan S

Open Access repository portals

Repositories mostly fall into one of the following types:

- Institutional (such as [PURE](#)): these host the outputs of a particular body.
- Disciplinary: cross-institutional subject repositories. These can be useful for boosting exposure within a particular field.
- Aggregating: archives which aggregate data from subsidiary repositories; [ResearchGate](#) is an example.
- Governmental: for state-produced data.

The [Registry of Open Access Repositories](#) (ROAR) aims to promote the development of open access by providing information about the grown and status of repositories throughout the world.

[OpenDOAR](#) (the Open Directory of Open Access Repositories) creates an authoritative reference database of Open Access repositories worldwide.

Both of these two portals provide several filters including subject, repository type and content type (e.g. articles, theses, monographs, etc.).

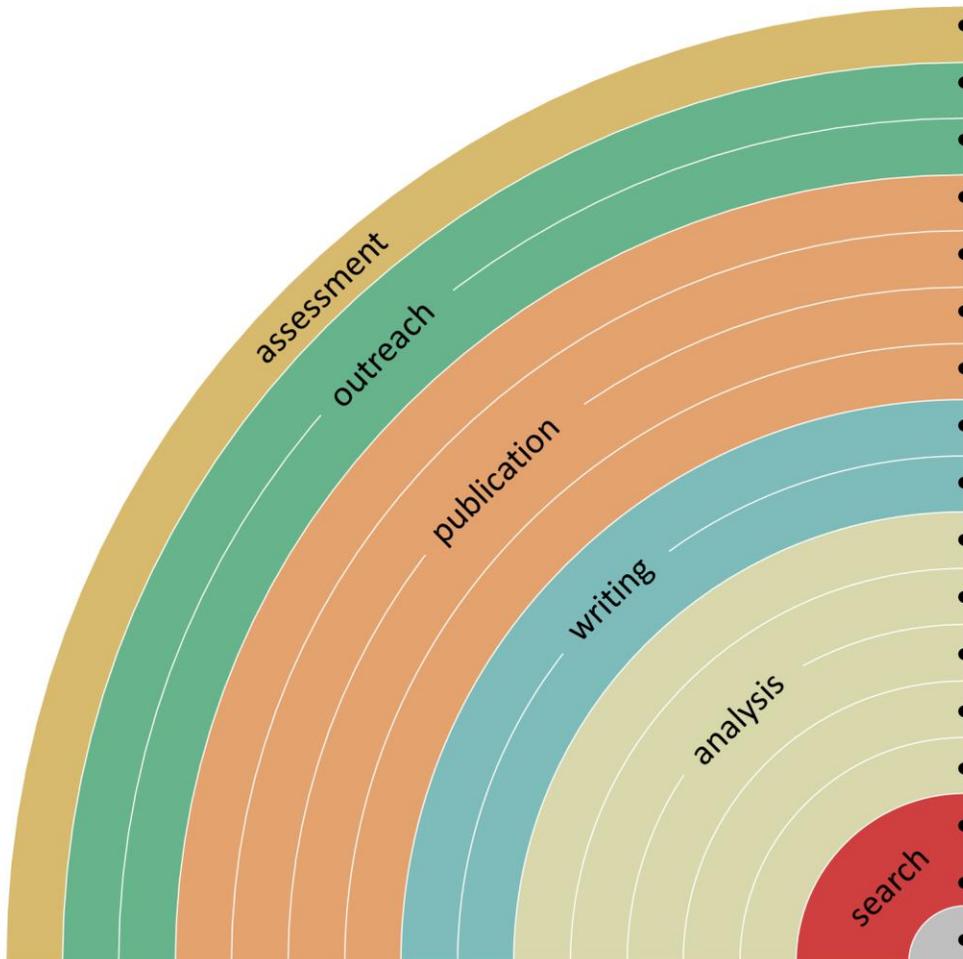
[OpenAIRE](#) is an Open Access publications infrastructure, making visible funded research outcomes.

[arXiv.org](#) is Open Access and has over 1.5 million e-prints in the fields of physics, mathematics, computer science, quantitative biology, quantitative finance, statistics, electrical engineering and systems science, and economics.



HOW CAN I BE
MORE OPEN -
NOW?

You can make your workflow more open by ...

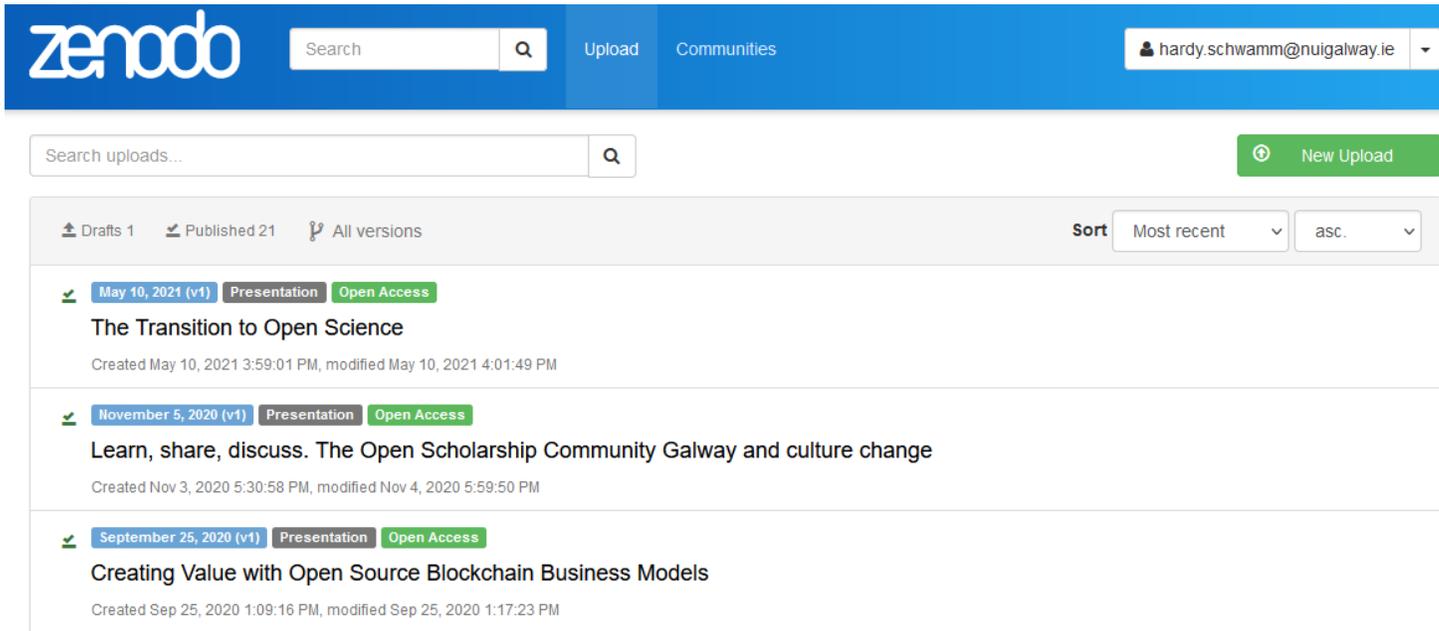


- adding alternative evaluation, e.g. with altmetrics
- communicating through social media, e.g. Twitter
- sharing posters & presentations, e.g. at FigShare
- using open licenses, e.g. CC0 or CC-BY
- publishing open access, 'green' or 'gold'
- using open peer review, e.g. at journals or PubPeer
- sharing preprints, e.g. at OSF, arXiv or bioRxiv
- using actionable formats, e.g. with Jupyter or CoCalc
- open XML-drafting, e.g. at Overleaf or Authorea
- sharing protocols & workfl., e.g. at Protocols.io
- sharing notebooks, e.g. at OpenNotebookScience
- sharing code, e.g. at GitHub with GNU/MIT license
- sharing data, e.g. at Dryad, Zenodo or Dataverse
- pre-registering, e.g. at OSF or AsPredicted
- commenting openly, e.g. with Hypothes.is
- using shared reference libraries, e.g. with Zotero
- sharing (grant) proposals, e.g. at RIO



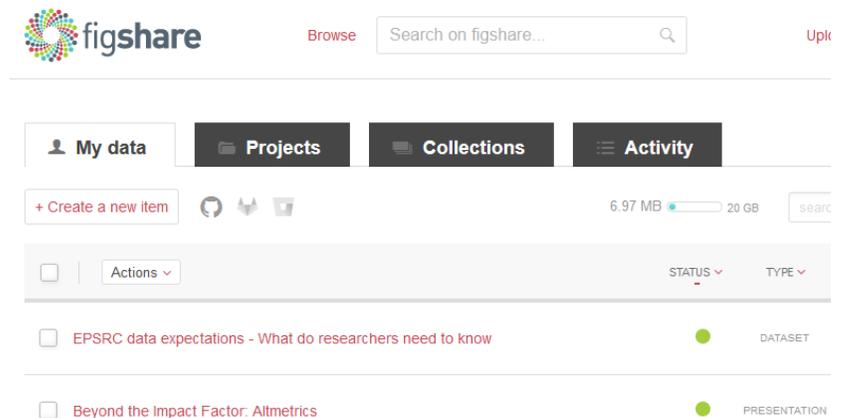
SHARE YOUR PRESENTATIONS, POSTERS, PAPERS

- Share your presentations, conference posters, lesson plans on platforms like [Zenodo](#) or [Figshare](#)
- You will get a DOI (which means you can get cited and get credit)
- You can control how your content can be shared by picking a Creative Commons licence



The screenshot shows the Zenodo website interface. At the top, there is a blue navigation bar with the Zenodo logo, a search bar, and links for 'Upload' and 'Communities'. A user profile dropdown shows 'hardy.schwamm@nuigalway.ie'. Below the navigation bar, there is a search bar for uploads and a 'New Upload' button. The main content area displays a list of uploads with filters for 'Drafts 1', 'Published 21', and 'All versions'. The list is sorted by 'Most recent' in ascending order. Three uploads are visible:

- May 10, 2021 (v1)** | Presentation | Open Access
The Transition to Open Science
Created May 10, 2021 3:59:01 PM, modified May 10, 2021 4:01:49 PM
- November 5, 2020 (v1)** | Presentation | Open Access
Learn, share, discuss. The Open Scholarship Community Galway and culture change
Created Nov 3, 2020 5:30:58 PM, modified Nov 4, 2020 5:59:50 PM
- September 25, 2020 (v1)** | Presentation | Open Access
Creating Value with Open Source Blockchain Business Models
Created Sep 25, 2020 1:09:16 PM, modified Sep 25, 2020 1:17:23 PM



The screenshot shows the Figshare website interface. At the top, there is a navigation bar with the Figshare logo, a search bar, and links for 'Browse' and 'Upload'. Below the navigation bar, there is a search bar for items and a 'New Upload' button. The main content area displays a list of items with filters for 'My data', 'Projects', 'Collections', and 'Activity'. The list is sorted by 'Most recent' in ascending order. Two items are visible:

- EPSRC data expectations - What do researchers need to know** | DATASET | 6.97 MB / 20 GB
- Beyond the Impact Factor: Altmetrics** | PRESENTATION



3



FINALLY: THREE
THINGS FOR YOU
TO TAKE AWAY
FROM TODAY

Adopted from: Daniel Quintana, 2020,
<https://www.youtube.com/watch?v=0uCG3Fl6ugE>

Academic job offers that mentioned open science

OS_job_offers.gsheets

OS_job_offers

Show rows with cells including:

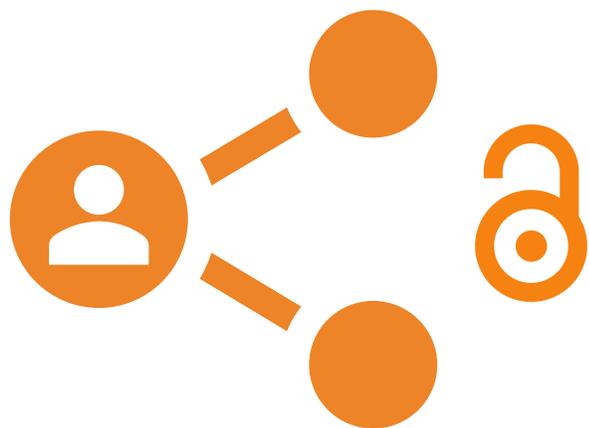
COUNTRY	YEAR	CITY	POSITION	TOPIC	LANGUAGE	RATER 1	MOMS Rat...	MOMS Quote	MOMS co...
Austria	2019	Wien	PhD student	Psychologic...	German		1	Interesse a...	"Interest in....
Austria	2020	Wien	Project Staff	Developmen...	German		3	Erwartet w...	"Erwartet" =...
Canada	2018	Toronto	Assistant Pr...	Social Psyc...	English	Franka	3	Our depart...	
Canada	2018	Vancouver	Assistant Pr...	Clinical Psy...	English	Franka	2	We encoura...	
Germany	2017	Göttingen	Professor	Clinical Psy...	German	Franka	3	Das Institut l...	
Germany	2017	Köln	Professor	Social Psyc...	English	Franka	3	The Depart...	
Germany	2017	München	Professor	Social Psyc...	German	Franka	3	Das Depart...	
Germany	2017	Münster	Professor	Educational ...	German	Franka	3	Das Fach P...	
Germany	2017	Trier	PhD student	Archiving	English	Franka	1	Current as ...	no explicitly ...
Germany	2017	Trier	PhD student	Publishing	English	Franka	1	Current as ...	no explicitly ...
Germany	2017	Trier	Team Leader	Information ...	English	Franka	1	Current as ...	no explicitly ...
Germany	2017	Trier	Team Leader	Study planni...	English	Franka	1	Current as ...	no explicitly ...
Germany	2017	Trier	PhD student	StudyDesig...	English	Franka	1	Current as ...	no explicitly ...
Germany	2018	Berlin	Professor	Twitter	English	Franka	3	The Charite ...	
Germany	2018	Bochum	Postgraduat...	Human Tech...	German	Franka	2	Die Arbeitg...	Bewerbung...
Germany	2018	Dresden	Postdoc	Diagnostic L...	German	Franka	1	Wir legen W...	? kein expliz...
Germany	2018	Hamburg	Professor	General Psy...	German	Franka	3	Die Fakultät ...	

I. ADOPTING THESE PRACTICES WILL MAKE YOU A MORE COMPETITIVE JOB CANDIDATE

- An increasing number of jobs indicate that open science practice is an advantage

<https://osf.io/4xnc7>

2. OPEN SCIENCE - YOU CAN START SMALL



- Pick one practice or one tool and have a go
- Start sharing outputs you are comfortable with: a presentation, a well curated dataset, a lesson plan
- Re-mix an Open Educational Resource, use Open Source software, add to Wikipedia

3. YOU WILL SAVE TIME DOING OPEN SCIENCE



You will save time by publish your outputs Openly:

- You will always find your outputs
- You are forced to curate material well
- You will find collaborators

LEARN MORE ABOUT OPEN SCHOLARSHIP

<https://openresearchcalendar.org/>

Open Research Calendar

Today ◀ ▶ October 2022 ▾

Week Month Agenda

Mon	Tue	Wed	Thu	Fri	Sat	Sun
26	27	28	29	30	1 Oct	2
	09:00 Focus on open research 13:00 Open Research 19:00 Supporting Open Research	03:00 How Should We 10:00 FAIR Coffee L	15:30 An introduction to 16:00 Connecting open research			
3	4	5	6	7	8	9
		(10:00) Responsible Animal Research Course (https://www.responsibleresearch.org.uk/) (09:00) ECSA 2022 Conference: Citizen Science for Planetary Health (https://www.ecsa2022.org/)	11:00 Introduction to 16:00 Coding Club::	11:00 Data Manager +2 more	02:00 Can Rural Education	
10	11	12	13	14	15	16
	11:00 How to Store 16:00 Coding Club::	10:00 FREE Respons 12:00 Open Research 16:00 Coding Club::	11:00 Handling of Pe 12:00 VIVO Talks! V 15:30 Open Data for			
17	18	19	20	21	22	23
	(00:00) Science Europe Open Science 13:00 FAIR data in t 16:00 Coding Club::		16:00 ManyBabies: .			
24	25	26	27	28	29	30
10:00 The OpenAIRI	10:00 New Horizons 10:00 Aurora and O 11:00 How to Make +2 more	10:00 OpenAIRE EX 13:30 Knowledge C 16:00 Coding Club::	09:30 Legal Aspects 10:00 The OpenAIRI 12:00 Open Access 15:30 Statistical ass	10:00 Discover Ope		
31	1 Nov	2	3	4	5	6
	11:00 How to Share	16:00 FORRT meets	11:00 Current Trend			

Events shown in time zone: United Kingdom Time

+ Google Calendar

OPEN EVENTS FOR EVERYONE



APR 29

Engaging Undergrad Students with Research Training through Replication

by Durham RIOTS Club
56 followers [Follow](#)

Free

[Register](#)

[Share](#) [Like](#)

In this seminar, three panelists will talk about their efforts to engage students with replication studies for final year projects.

About this event

Talk abstract: In this seminar, three panelists (Dr. Jim Grange from Keele University, Dr. Justin Ales from University of St. Andrew, Dr. Katherine Button from University of Bath) will talk about their efforts to engage students with replication studies during the final-year

Date and time
Fri, 29 April 2022
13:00 – 14:30 IST

Location
Online event

[Durham RIOT Club](#)



[« All Events](#)

FAIR data in the life sciences: beyond theory

October 19 @ 1:00 pm – 3:30 pm

[« Open Research and End-to-End Ethics: A "one team" approach](#)

[Leadership in Academia 2022 »](#)

Registration for this event is open

Since 2016, with the publication of the FAIR (Findable, Accessible, Interoperable, Reusable) principles (Wilkinson, M., et al.), FAIR data management and stewardship in the life sciences have been at the forefront of numerous publications, talks, research projects and policies at public institutions. Yet, for researchers working with data, applying the FAIR principles to their projects has been a hurdle. A skill gap in the life sciences workforce also hinders the progress toward FAIR data and its benefits in sharing, reusing and safeguarding life sciences data.

This workshop will offer attendees the opportunity to learn about the existing tools to implement FAIR principles tailored to a life sciences user, with toolkits and step-by-step guides. In addition, participants will also discover different training opportunities for personal use and further implementation in their organisations.

Please note, by joining this workshop you are agreeing to follow the [UKRN code of conduct](#).

[Register](#)

[UKRN events](#)

OPEN SCHOLARSHIP SUMMARY

- Open Scholarship is a facet of big changes in how we do and value research and teaching
- Open Scholarship enables people to better demonstrate their contributions to research, education, and wider society.
- Open Scholarship is good for science, good for your skills developments and career
- Open Scholarship is the future! Be prepared.
- Open Scholarship is all about collaboration and engagement. It's fun!



COMMENT

OPEN ACCESS

When will ‘open science’ become simply ‘science’?

Mick Watson 

Genome Biology 2015 16:101 | <https://doi.org/10.1186/s13059-015-0669-2>

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Published: 19 May 2015

Science Europe Open Science Conference 2022

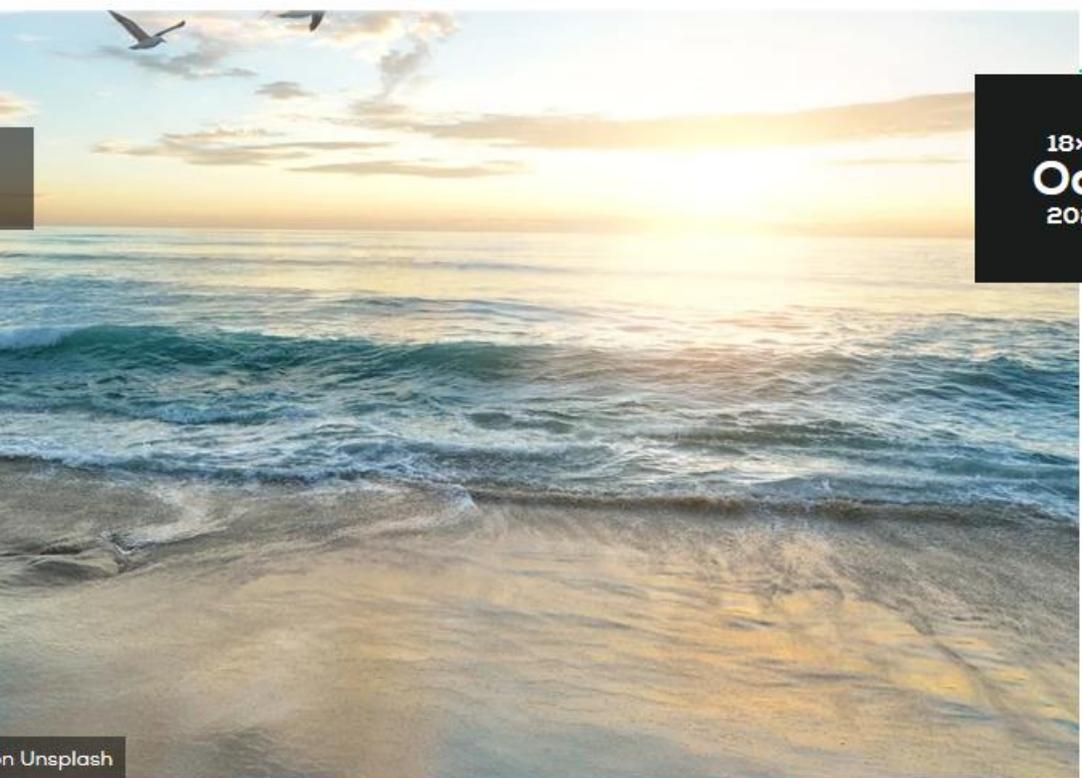
Open Science

THE PROGRAMME 

REGISTER 

before 18-10-2022 9:00

18 & 19
Oct.
2022



on Unsplash

Science Europe is organising a conference on Open Science on **18 and 19 October 2022**. The goal is to bring together institutional leaders, researchers at all stages of their careers, and experts from the field to discuss two main questions:

- Is Open Science ready to become the norm in research?
- How do we ensure an equitable transition to Open Science?

<https://www.scienceeurope.org/events/open-science-conference-2022/>

RESOURCES

- UKRI Open Research: <https://www.ukri.org/what-we-offer/supporting-healthy-research-and-innovation-culture/open-research/>
- Open Scholarship Community Galway: <https://osc-galway.ie/>
- SPARC Open Education: <https://sparcopen.org/open-education/>
- Email Hardy: hardy.schwamm@nuigalway.ie