



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Research Data & Open Science

6 Novembre 2023

PART 1

Lottie Provost

Istituto di Linguistica Computazionale

"A. Zampolli" - CNR

lottiemiaprovost@cnr.it



<https://orcid.org/0000-0001-5279-797X>



FOSSR

Fostering Open Science in Social Science Research
Innovative tools and services to investigate economic and societal change

This presentation is on Zenodo
DOI [10.5281/zenodo.10074214](https://doi.org/10.5281/zenodo.10074214)





Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Some of the slides you will see in this course are taken from or adapted from previous materials produced by my colleagues. Attribution is indicated in the specific slides.

Special thanks to Francesca Di Donato <https://orcid.org/0000-0003-0144-8934>

Emma Lazzeri <https://orcid.org/0000-0003-0506-046X>



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

What you can do with this presentation

You are free to

- distribute, remix, adapt, and build upon the material in any medium or format

Provided that

- you attribute the work to its author and respect the rights and licenses associated with its components

A few words on the course

The course methodology:

- the aim of the course is to introduce you to the concepts and practices underlying research data and open science, and to provide you with tools to help you get started.
- your involvement is crucial !

Structure of the course

- modules, frontal lesson

In each module:

- Test your understanding as we go (questions to be answered by you, on Mentimeter)
- Final open Q&A



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Be ready !

When you see a slide with this image: Go to **Menti.com** with the code on the slide and answer the question(s)



Please enter the code

Join

The code is found on the screen in front of you



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Let's introduce ourselves

A few facts about me

- Half French half English
- CNR-ILC in Pisa, Italy
- International Project Management

My work focuses on:

- Open science practices
- Open workflows
- Scientific communication



Currently:

- GraspOS project, co-leader WP6 - Communication, Engagement, Exploitation
- member of the OpenAIRE Community of Practice for Training coordinators
- member of the EOSC Association Working Group on Community and Engagement in Horizon Europe
- member of GraspOS Community of Practice on Open Science and Responsible Research Assessment



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Today's journey (PART 1)

Introduction

WHAT IS OPEN SCIENCE ?

Q&A

OPEN SCIENCE AND RESEARCH ASSESSMENT

Q&A

Biopause 10 min



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Your turn!

Go to [Menti.com](https://www.menti.com)



Image by Volodymyr Hryshchenko on Unsplash



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

OPEN SCIENCE

Definitions of Open Science
Is it new?
Current issues



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

1. Let's start with some definitions

One term, many definitions



[UNESCO Open Science Brochure](#)

“Open science is defined as an inclusive construct that combines various movements and practices aiming to make multilingual scientific knowledge openly available, accessible and reusable for everyone, to increase scientific collaborations and sharing of information for the benefits of science and society, and to open the processes of scientific knowledge creation, evaluation and communication to societal actors beyond the traditional scientific community. It comprises all scientific disciplines and aspects of scholarly practices, including basic and applied sciences, natural and social sciences and the humanities, and it builds on the following key pillars: open scientific knowledge, open science infrastructures, science communication, open engagement of societal actors and open dialogue with other knowledge systems.”



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Open scientific knowledge

Scientific publications

Open research data

Open educational resources

Open source software and code

Open hardware

Open engagement of societal actors

Crowdfunding

Crowdsourcing

Scientific volunteering

Citizen and participatory

science

Open science infrastructures

Virtual / Physical

Open dialogue with other knowledge systems

Indigenous people

Marginalised scholars

Local communities



Open Science – time to unlock the potential of the digital age

Overview

The key is the internet - digitization

Open science requires systems thinking

The value is making new knowledge from connections

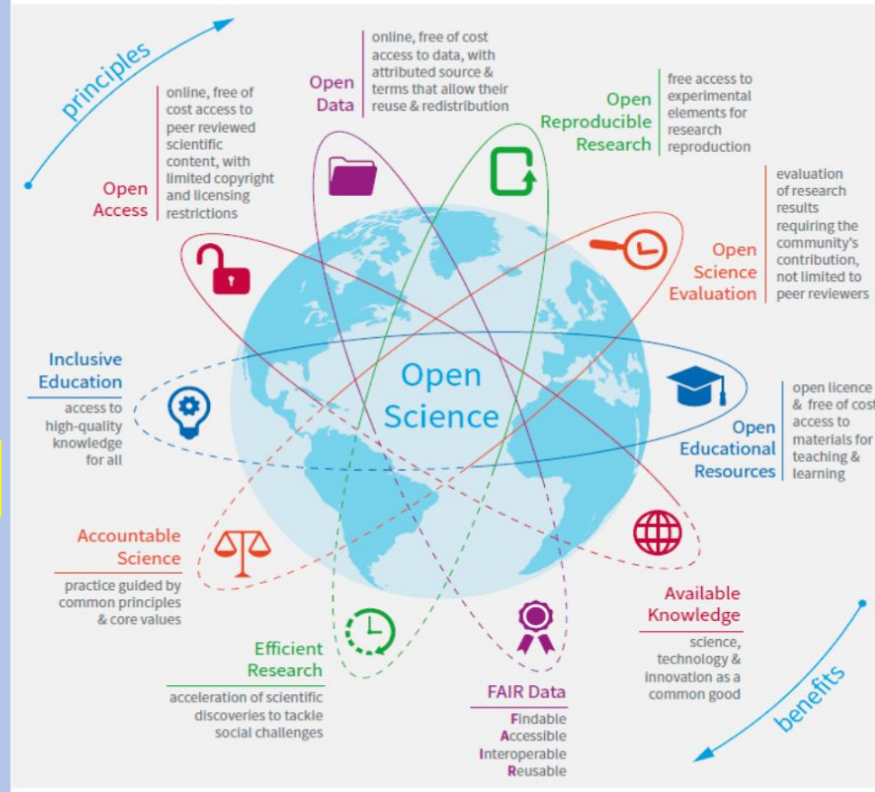
Standards to make (machine) interoperable

Minimize technical, legal, financial and linguistic barriers

Effective Ethical Equitable

Collaboration not Competition for Global Goods

A reset for scientific careers new incentive measures needed



[1] Towards a global consensus on open science: report on UNESCO's global online consultation on open science. UNESCO, 2020
 [2] FOSTER portal <https://www.fosteropenscience.eu/>, accessed in March 2021
 [3] Science ouverte à l'Université de Genève: feuille de route pour un partage de connaissances scientifiques 2020-2023

Another way to look at Open Science

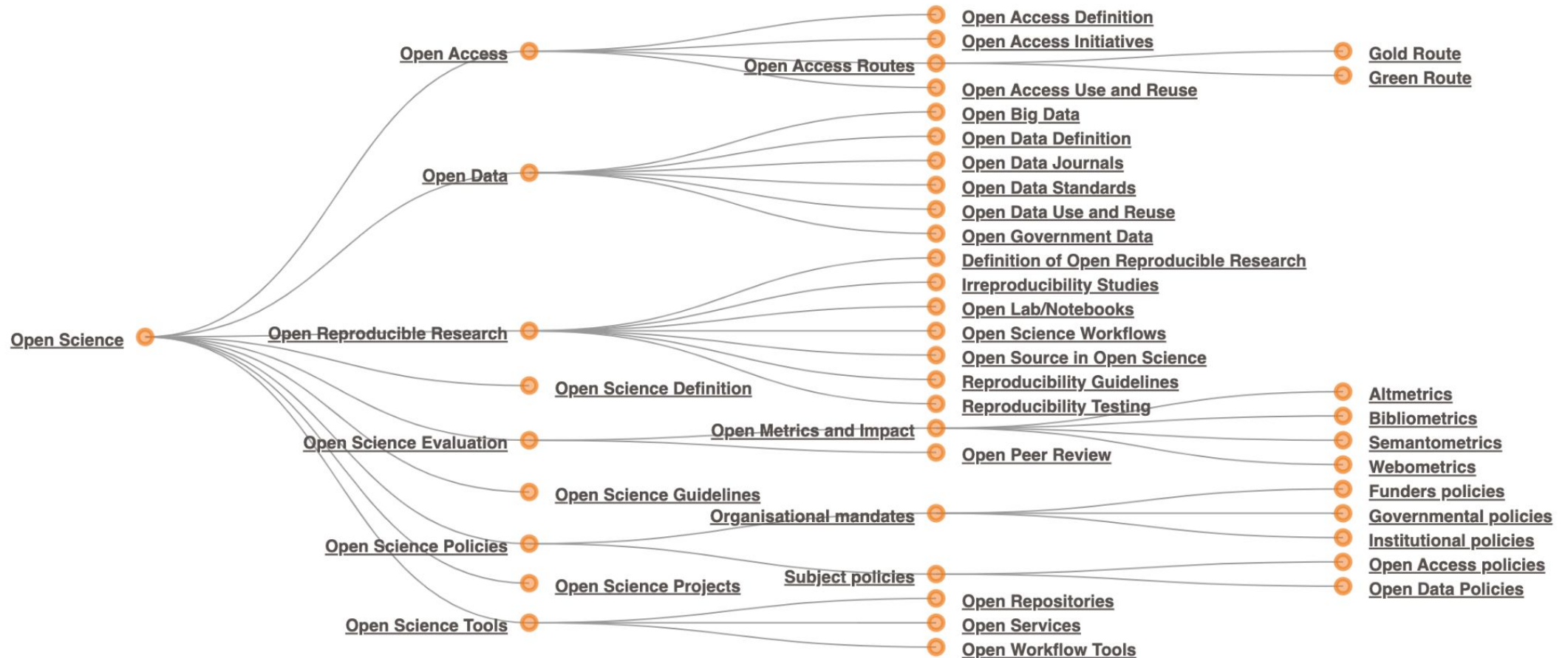


Motivations for Open Science “one term, five schools of thought”

School of thought	Main Assumption
Democratic	Access to knowledge is unequally distributed
Pragmatic	Knowledge creation is more efficient through collaboration and strengthened through critique
Infrastructure	Efficient research requires readily available platforms, tools and services for dissemination and collaboration
Public	True societal impact requires societal engagement in research and readily understandable communication of scientific results.
Measurement	Traditional metrics for evaluating scientific contributions are problematic



A taxonomy for Open Science



Open Science is about rigour, accountability and reproducibility for research

Benefits from Open Science include

- opportunity for **new scientific discoveries**
- reproducibility** of scientific results
- facilitating **cross-disciplinary cooperation**
- increased resource **efficiency**
- improved **transparency** and **accountability** regarding disbursement of public funds
- better **return on public investment**
- increasing **public trust** in research





Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

**OPEN SCIENCE:
JUST
SCIENCE
DONE RIGHT**



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

2. Is Open Science new?



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

2002. Budapest Open Access Initiative

2003. Berlin Declaration on Open Access to Knowledge in
the Sciences and Humanities

2007. OECD Principles and Guidelines on Access to Research
Data from Public Funding

2014. The FAIR data principles

No, it's not!



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

**Strategic and
political orientations
are more recent**

2015. OECD "Making Open Science a Reality"

2016. European Commission, Directorate-General for Research and Innovation, Open innovation, open science, open to the world : a vision for Europe

2017. G7 Science Ministers Communiqué



The pandemic, and the urge to open up the research results



“I call on all countries, companies and research institutions to **support open data, open science, and open collaboration** so that all people can enjoy the benefits of science and research”

T.A. Ghebreyesus, [WHO Director-General's Opening Remarks at the Media Briefing on COVID-19 - 6 April 2020](#)



La pandemia e l'urgenza di aprire i risultati della ricerca

“I call on all countries, companies and research institutions to support open data, open science, and open collaboration so that all people can enjoy the benefits of science and research”

(Ghebreyesus TA, ['WHO Director-General's Opening Remarks at the Media Briefing on COVID-19 - 6 April 2020'](#), 6 Aprile 2020)

Robert Terry (OMS): Meno del 25% del materiale scientifico incluso nelle Linee Guida COVID dell'OMS viene da pubblicazioni tradizionali.

"Si sono rivelati inutili, proprio nel momento in cui avevamo più bisogno di loro"

(Video: [Time to unlock the potential of the digital age](#), OpenScienceFair2021, 22 settembre 2021, [slides](#))



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

3. What's the problem?



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA

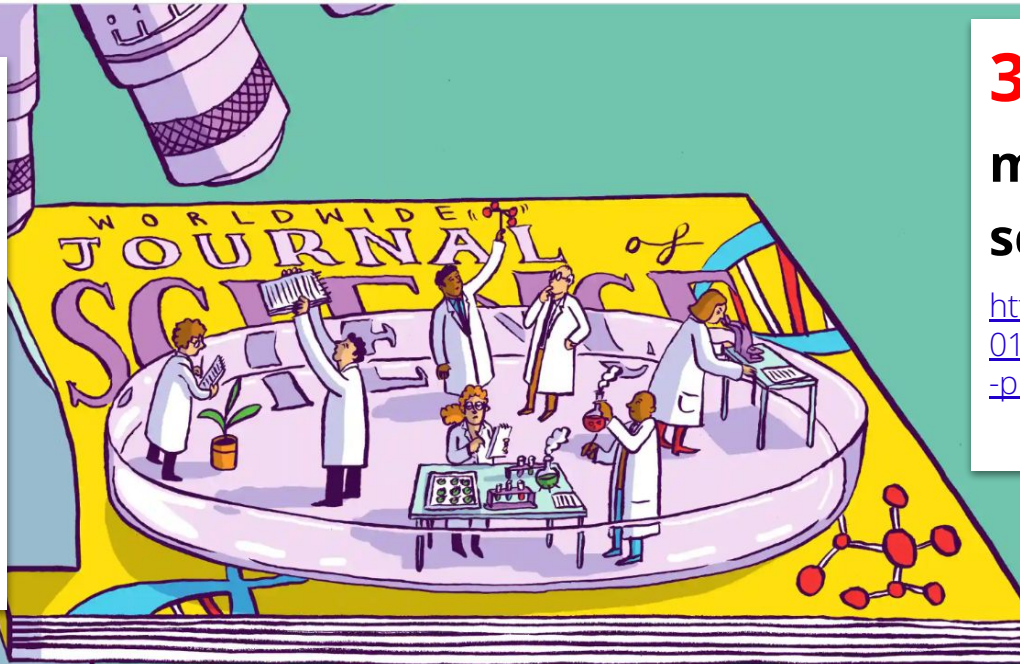


Consiglio Nazionale
delle Ricerche

10 milioni di dollari

costo annuale degli abbonamenti alle riviste scientifiche nel mondo

Schimmer, R., Geschuhn, K. K., & Vogler, A. (2015). Disrupting the subscription journals' business model for the necessary large-scale transformation to open access. doi:10.17617/1.3.



36 %

margine degli editori scientifici commerciali

<https://www.theguardian.com/science/2017/jun/27/profitable-business-scientific-publishing-bad-for-science>

26 miliardi di euro

persi ogni anno in Europa perché i dati della ricerca non sono gestiti correttamente.

European Commission, Directorate-General for Research and Innovation, *Cost-benefit analysis for FAIR research data : cost of not having FAIR research data*, Publications Office, 2019, <https://data.europa.eu/doi/10.2777/02999>

The long read

Is the staggeringly profitable business of scientific publishing bad for science?

illustration for science publishing long read Illustration: Dom McKenzie



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

mastodon

Pubblica

Home

Björn Brembs 12 minuti
@brembs@mas...

2022 has been an excellent year for #Elsevier !

- Revenue: 2,909 £m (US\$3.5 billion)
- Adjusted operating profit: 1,100 £m (US\$1.3 billion)
- Margin: 37.8%**

relx.com/investors/annual-repo...

To a large extent, this 'success' was made possible by all the scholarly organizations that have helped funnel tax funds to the shareholders of the monopolist!


OPEN

SCIENZE RICERCA SCIENTIFICA • UNIVERSITÀ • USA

L'abbonamento alle riviste scientifiche costa troppo, l'università della California rinuncia alla principale

15 LUGLIO 2019 - 07:21

di Juanne Pili



<https://www.open.online/2019/07/15/abbonamento-riviste-scientifiche-costo-eccessivo-universita-california-rinuncia/>



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



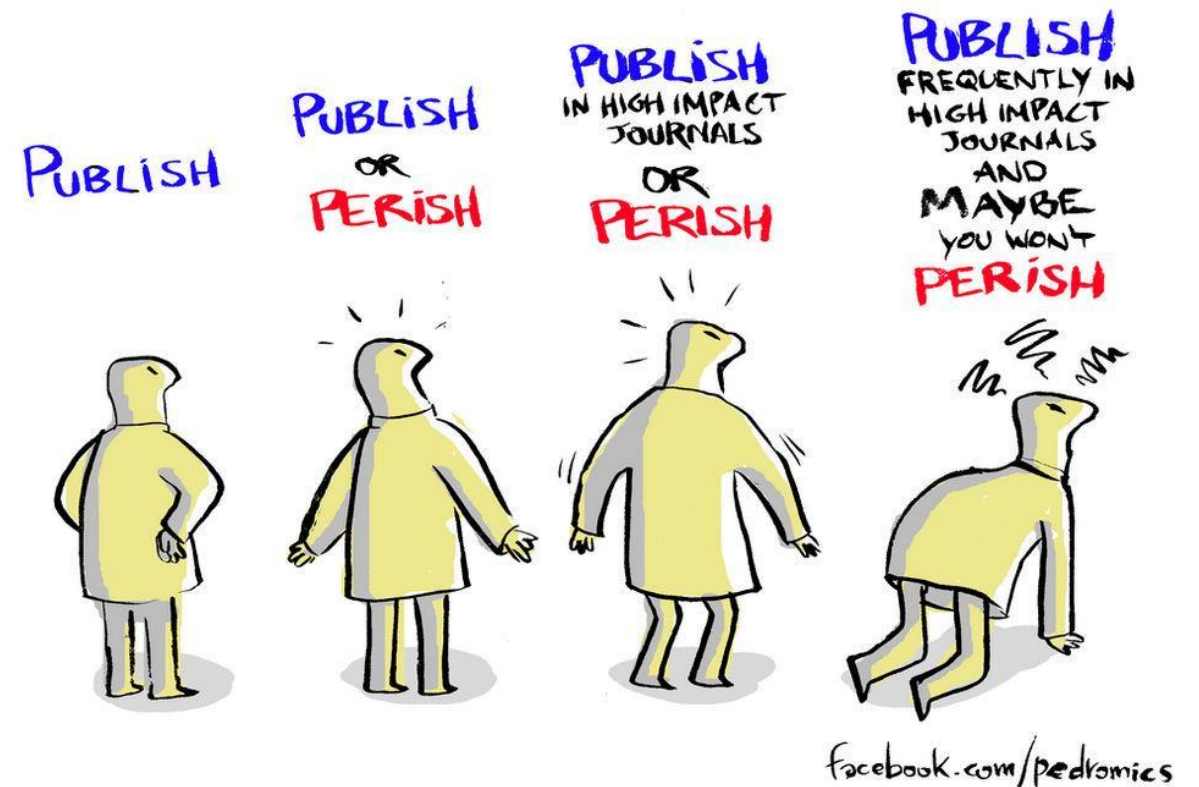
Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

A broken system?

THE EVOLUTION OF ACADEMIA





Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Vendor lock in situation

Every player is at a disadvantage

“Neither researchers – forced to publish in journals due to the “publish or perish” reality – nor libraries – serving the reading and publishing needs of their faculty – are in a position to initiate reform.”

Replacing Academic journals, <https://doi.org/10.5281/zenodo.7643806>



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

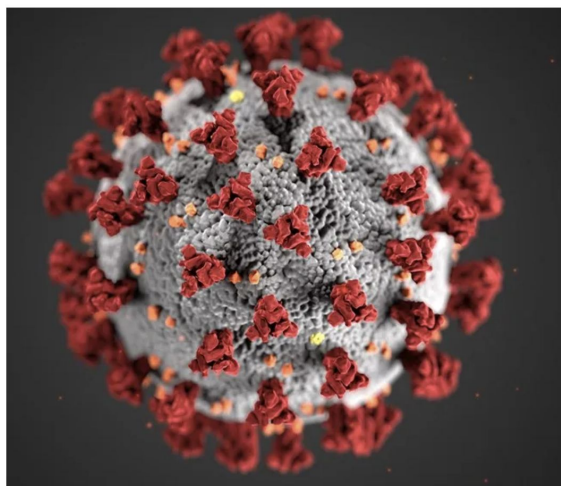
COVID-19 pandemic leads to flood of 'useless' science

25 Jun 2020 | News

Academics speak out against 'ridiculous' studies that are getting submitted to journals and urge 'self-restraint' be restored

SCIENCE | BUSINESS®

Retracted coronavirus (COVID-19) papers



via CDC

The number of retracted
papers proves that

**Quantity
≠
Quality**

<https://retractionwatch.com/>

1. "5G Technology and induction of coronavirus in skin cells," published in *Biological Regulators & Homeostatic Agents* on July 16, 2020, withdrawn on July 24, 2020. Our coverage here.
2. "A Case Series of Stent Thrombosis During the COVID-19 Pandemic," published on May 27, 2020 in *JACC: Case Reports*; retraction date is unknown. Retracted as a duplicate publication by journal error.
3. "A data-mining based analysis of traditional Chinese medicine in diagnosing and treating COVID-19," published on June 24, 2021 in *The Anatomical Record*; unknown when retracted.
4. "A deep learning model and machine learning methods for the classification of potential coronavirus treatments on a single human cell," published on October 17, 2020 in the *Journal of Nanoparticle Research*; retracted on August 16, 2021.
5. "A Discourse Analysis of Quotidian Expressions of Nationalism during the COVID-19 Pandemic in Chinese Cyberspace," published on September 8, 2020; retracted on April 12, 2022.
6. "A mechanistic analysis placental intravascular thrombus formation in COVID-19 patients," published on April 25, 2020 in *Annals of Diagnostic Pathology*. Retracted on June 22, 2020 as a duplicate publication by journal error.
7. "A meta-analysis of granulocyte-macrophage colony-stimulating factor (GM-CSF) antibody treatment for COVID-19 patients," published on August 20, 2021 in *Therapeutic Advances in Chronic Disease*; retracted on November 21, 2021. See our coverage here.
8. "A Model Based Analysis for COVID-19 Pandemic in India: Implications for Health Systems and Policy for Low- and Middle-Income Countries," preprint posted on June 12, 2020 in *medRxiv*; retracted on August 18, 2020.



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Any Questions?





Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

RESEARCH ASSESSMENT AND OPEN SCIENCE

How did we get here?
Recent changes



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

1. How did we get here?

What happened?



“Ostensibly aligned, **publishing and communication have diverged.** Journals and the concept of “version of record” are not only a legacy from print, but their roles have shifted to the point where some processes involved in scholarly publishing are getting in the way of optimal scholarly communication, as the present pandemic amply reveals”

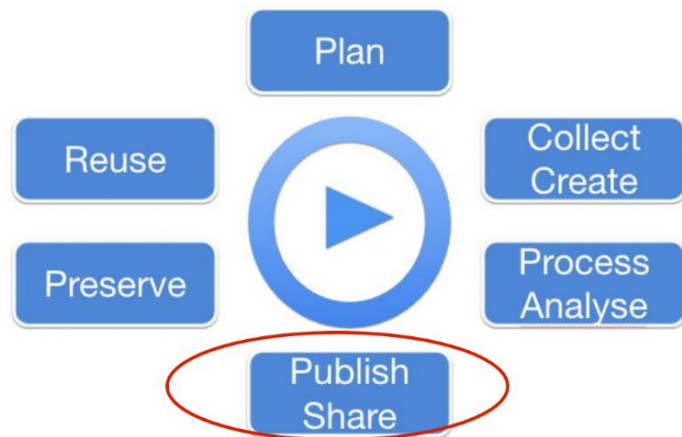
Jean Claude Guédon, *Scholarly Communication and Scholarly Publishing*,
2021



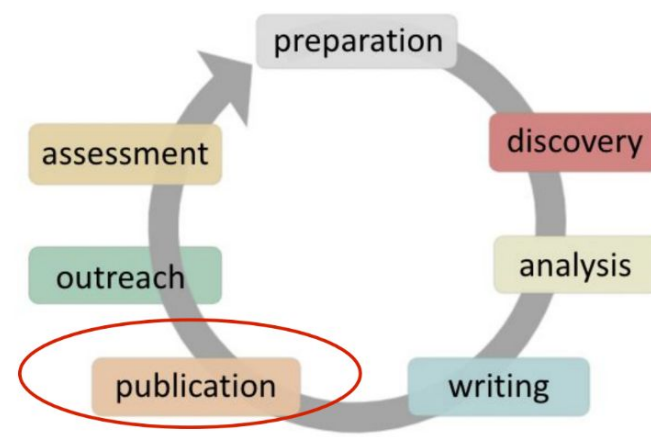
What is science/scholarly communication

“the system through which research and other scholarly writings are **created, evaluated** for quality, **disseminated** to the scholarly community, and **preserved** for future use”

ACRL, Principles and Strategies for the Reform of Scholarly Communication 1, 2003.



Data centric perspective



Researcher centric perspective ⁶

Formalised publishing practices are just a subset of a larger pool of various communication practices (emails, social media, blogs, press, etc.), both between scholars and between scholars and the public.

Moreover, **SC is a workflow, a process, and a set of practices and empowering tools which structure our “scholarly behaviour”**



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

To change the system we need to rethink the research assessment system



How research is evaluated

Journal Impact Factor

For a given year, the two-year JIF is the ratio between the number of citations received in that year for publications in that journal that were published in the two preceding years and the total number of "citable items" published in that journal during the two preceding years.

Aim: measure the frequency with which the average article in a journal has been cited in a particular year.

$$IF_y = \frac{\text{Citations}_{y-1} + \text{Citations}_{y-2}}{\text{Publications}_{y-1} + \text{Publications}_{y-2}}$$

H-index

For a researcher: the maximum value of h such that the given author has published h papers that have each been cited at least h times.

As an example, an h-index of 10 means that among all publications by one author, 10 of these publications have received at least 10 citations each.


Aim: estimate the productivity and impact of a research.



How did we get here ?

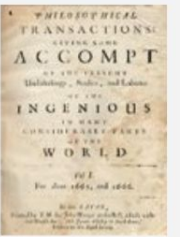
The birth of the modern science system of communication

It's based on **three major innovations:**




Copyright

- 1710 Statute of Anne
- End of the system of privileges
- 14 years



Scientific Journals

- 1665: *Philosophical Transactions of the Royal Society of London*
- Public registry of Intellectual property
- Arbiter elegantiarum



Peer reviewing

- Perusal
- 1731 - Royal Society of Edinburgh
- It becomes the standard evaluation practice

We will focus more deeply on the role and spread of scientific journals and on peer reviewing and the **assessment of research quality and impact** in the next module

J.-C. Guéron, [In Oldenburg's long shadow](#), 2002.

A. Johns, *The Nature of the Book: Print and Knowledge in the making*, University of Chicago Press, 1998.

(Italian) F. Di Donato, [La scienza e la rete. L'uso pubblico della ragione nell'età del web](#), FUP, 2009.



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche



Robert Maxwell

Source [Image](#)

The rise of commercial journals

Post WWII: commercial opportunities for scholarly publishing

Worldwide audience

English

Libraries

Journals become even more central in scholarly communication system..



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA

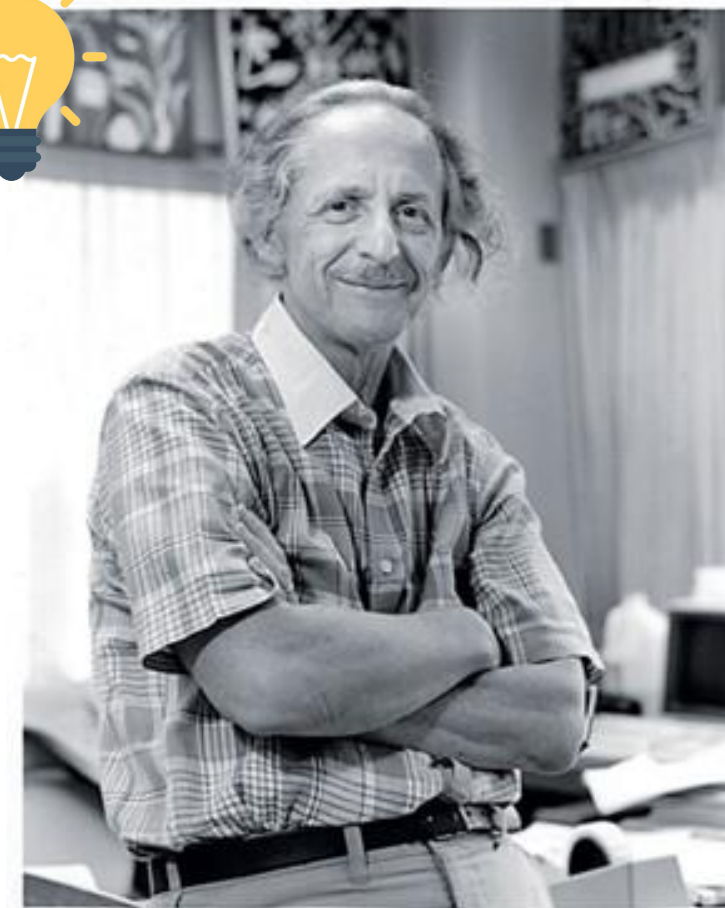


Consiglio Nazionale
delle Ricerche

Bibliometric indicators

Core journals

Impact factor



Eugene Garfield

Credit: Neil Benson



Goodhart's law

The problem comes
from the method

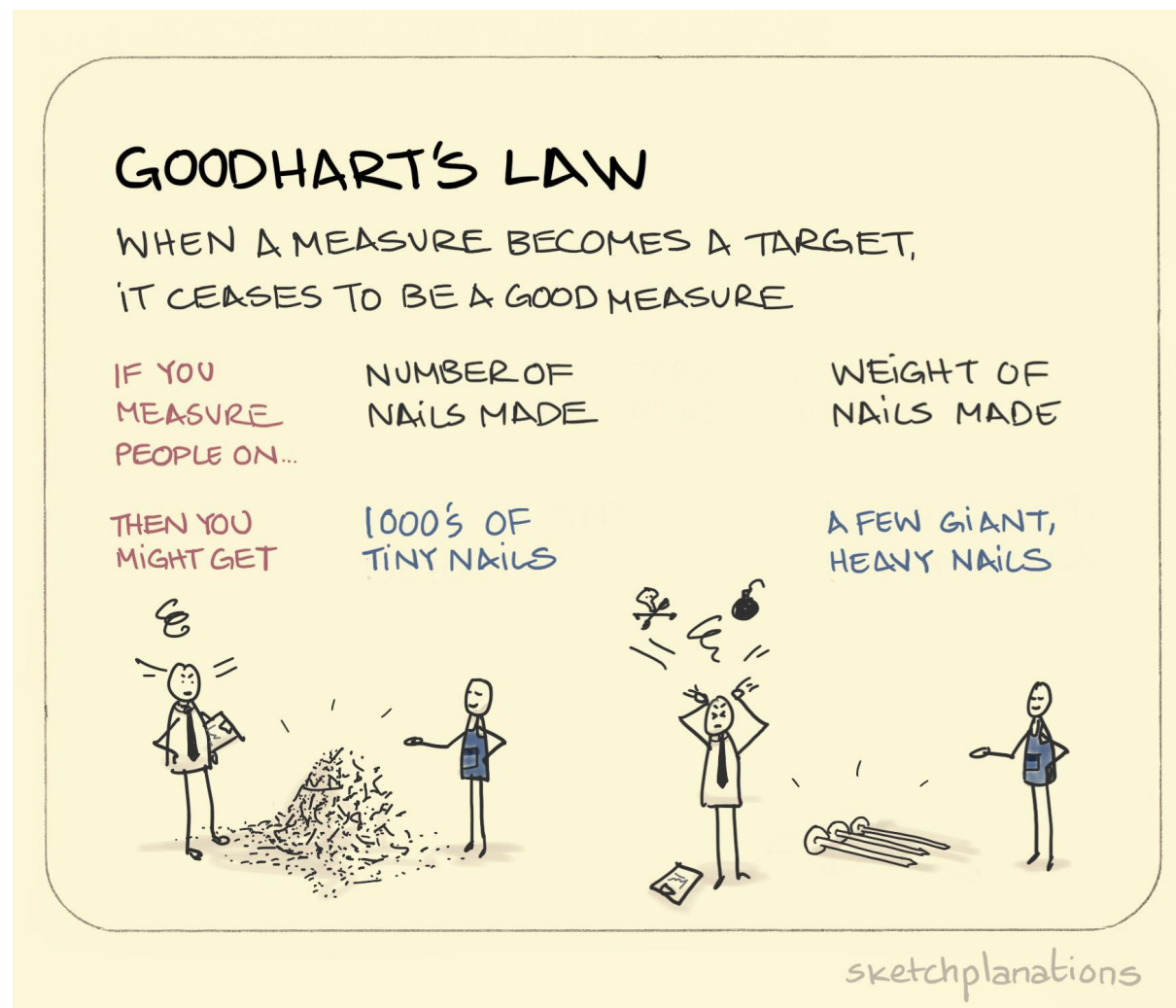


Image: [Sketchplanations](https://www.sketchplanations.com/)



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

The transformation of the scientific paper

**“From a knowledge unit to an
accounting unit”**

Gaming the Metrics’.

[https://mitpress.mit.edu/9780262537933/gaming-the-metrics/.](https://mitpress.mit.edu/9780262537933/gaming-the-metrics/)



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

2. Things are changing



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Declaration on Research Assessment (DORA)

DORA

About ▾ Communities ▾ Meetings ▾ Grants Contact

DORA at 10 The Declaration Signers Project TARA News and Resources ▾

Sign DORA

Our vision: To advance practical and robust approaches to research assessment globally.

<https://sfdora.org/>



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Funders are pushing for OS adoption



European Commission

European Research Council

In Italy, MUR with the National Open
Science Plan

Many others across Europe and
worldwide

Image by Micheile Henderson on [Unsplash](#)



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche



Overview of actions for the period 2022-2024

[European Research Area Policy Agenda \(2022 – 2024\)](#)

3. An ERA Policy Agenda with concrete actions

The new ERA Policy Agenda, annexed to the Council conclusions on the ERA governance, sets out 20 concrete ERA actions for the period 2022-2024 to contribute to the priority areas defined in the Pact for Research and Innovation.

1. Enable Open Science, including through the European Open Science Cloud (EOSC)
2. Propose an EU copyright and data legislative framework for research
3. Reform the Assessment System for research, researchers and institutions
4. Promote attractive research careers, talent circulation and mobility
5. Promote gender equality and foster inclusiveness
6. Protect academic freedom in Europe
7. Upgrade EU guidance for a better knowledge valorisation
8. Strengthen research infrastructures
9. Promote international cooperation
10. Make EU research and innovation missions and partnerships key contributors to the ERA
11. An ERA for green transformation
12. Accelerate the green/digital transition of Europe's key industrial ecosystems
13. Empower Higher Education Institutions
14. Bring Science closer to citizens



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche



EUROPEAN OPEN
SCIENCE CLOUD

[About](#) [Services & Resources](#) [Help](#) [Policy](#) [Use Cases](#) [News & Events](#) [Providers Hub](#) [Using the Portal](#) [🔍](#)

EOSC

EOSC Portal - A gateway to information and resources in EOSC

The European Open Science Cloud (EOSC)

Providing 1.8 million European researchers and 70 million professionals in science and technology a virtual environment with open and seamless services for storage, management, analysis and re-use of research data, across borders and scientific disciplines.

[More about EOSC](#)



Strategic Research and Innovation Agenda
(SRIA)

of the
European Open Science Cloud (EOSC)

Version 1.1 – 1 November 2022



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Documents produced on Open Science and Research Assessment

2020: Commission Communication COM(2020) 628 of 30 September 2020 on a new European Research Area for R&I

2020: Council Conclusions on the new ERA of December 1st 2020

2020: Digital skills for FAIR and open science. Report from the EOSC Executive Board Skills and Training Working Group:

2021: RDA: Rewards and Incentives for Open Science

2021: Conclusions for the Competitiveness Council of 27-28 May on attractive and sustainable researchers' careers and working conditions

2021: Proposal for a Council Recommendation on a "Pact for Research and Innovation in Europe", as a first key achievement of the new European Research Area

2021: G7 Research Compact

2016: Amsterdam call for actions for OS

2017: Evaluation of research careers fully acknowledging Open Science practices.

2017: Rewards, incentives and/or recognition for researchers practicing Open Science

2017: Responsible metrics and evaluation for open science

2017: EOSC Declaration

2018: COMMISSION RECOMMENDATION (EU) 2018/790 of 25 April 2018 on access to and preservation of scientific information

2019: Indicator frameworks for fostering open knowledge practices in science and scholarship

2019: Future of Scholarly Publishing and Scholarly Communication

2019: Report: Research Assessment in the Transition to Open Science

2020: Open Science Policy Platform final report

2020: EOSC Strategic Research and Innovation Agenda

2020: Science Europe, Position statement and recommendations on research assessment processes



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Agreement on Reforming research assessment.

644 signatories as
of 23 October 2023

“La nostra visione è che la valutazione della ricerca, dei ricercatori e delle organizzazioni di ricerca riconosca i diversi risultati, le pratiche e le attività che massimizzano la qualità e l'impatto della ricerca stessa. Ciò richiede di fondare la valutazione principalmente sul giudizio qualitativo, per il quale la peer-review è centrale, supportata da un uso responsabile degli indicatori quantitativi”

Source : [Agreement on Reforming Research Assessment](#), p.1. Translated by Francesca Di Donato. (2022). Una questione di qualità o una formalità? L'Agreement on Reforming Research Assessment e il processo di riforma della valutazione della ricerca in Europa (1.0). Zenodo. <https://doi.org/10.5281/zenodo.7433048>



<https://coara.eu/>



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche



Have your say

Go to [Menti.com](https://www.menti.com)

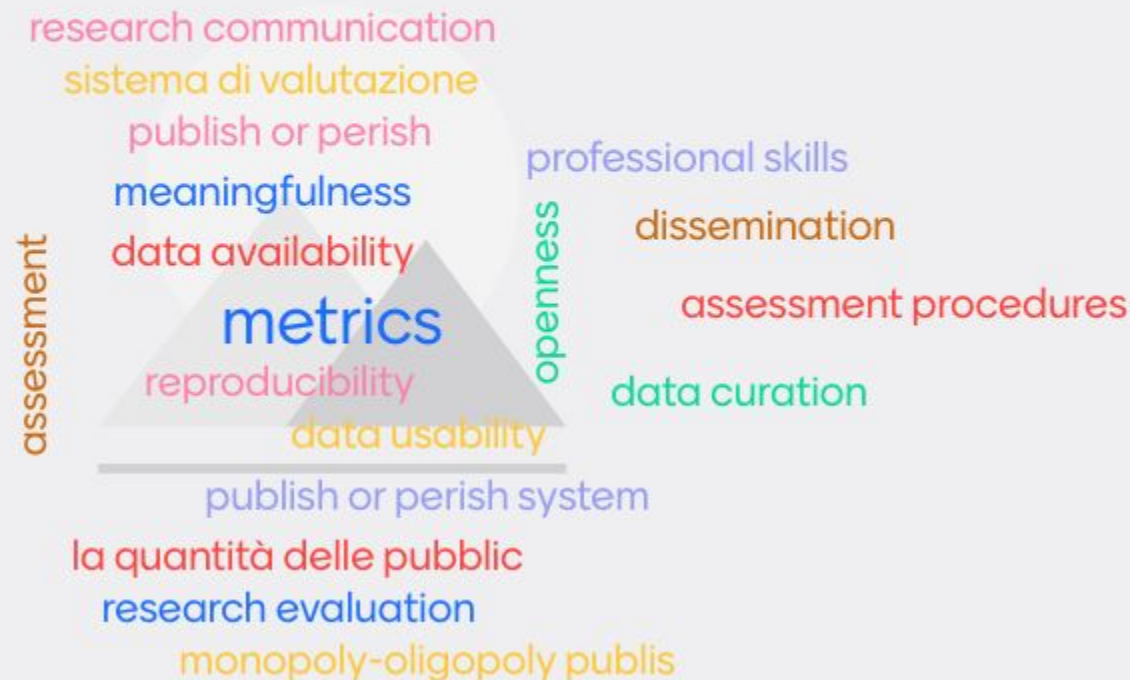
Image by Volodymyr Hryshchenko on Unsplash

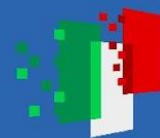


Menti results (1/3)

Name some of the issues in the current research system

19 responses





Menti results (2/3)

How do you think that can Open Science help?

11 responses

Greater accountability

Cooperation

To promote reproducibility or
research, so to avoid misbehaviors

transparency, complex thinking,
interoperability

minimizzare le barriere (economiche,
sociali, linguistiche, etc) e trasformare
il sistema di valutazione

"democratic" sharing of data and
results

Potenziare il deposito dei dati, risorse,
metodologie

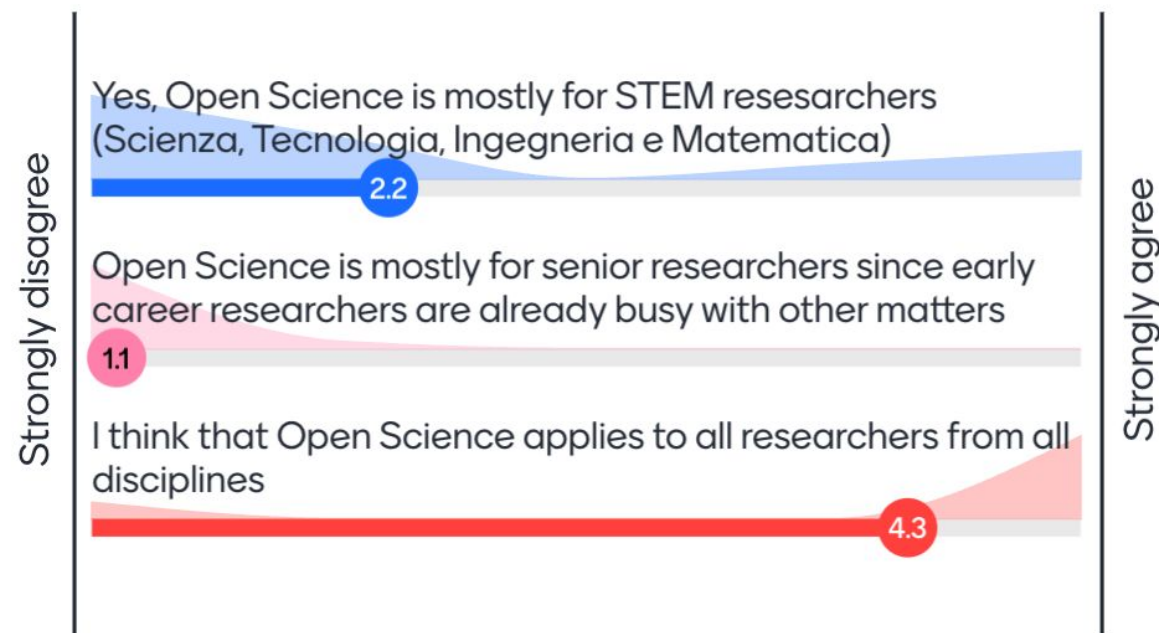
la condivisione delle informazioni
allarga la platea delle persone
interessate

reusability

sharing knowledge, involvement of
societal actors in knowledge

Menti results (3/3)

Is Open Science only for a certain type of researchers?





Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

Any Questions?





Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Consiglio Nazionale
delle Ricerche

THANK YOU!

Please write to lottiemiaprovost@cnr.it for any questions



fossr.dissemination@ircres.cnr.it



[@fossrproject](https://twitter.com/fossrproject)



[fossr.eu](https://www.facebook.com/fossr.eu)



[fossr-eu](https://www.linkedin.com/company/fossr-eu)



[@fossr](https://www.youtube.com/@fossr)

 zenodo

zenodo.org/communities/fossr