

Dipartimento di Neuroscienze,  
Torino, 6 giugno 2022

# Perché serve la Open Science

Elena Giglia

[elena.giglia@unito.it](mailto:elena.giglia@unito.it)



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



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# Cosa vedremo oggi

1

Perché serve la Open Science?

Cos'è e come si fa Open Science?

2

Le nuove regole in Horizon Europe

...PERCHÉ IN HORIZON  
EUROPE OPEN SCIENCE  
RIENTRA NELLA  
VALUTAZIONE DELLA  
PROPOSTA



# Due o tre punti fermi nel percorso

Partiamo da una riflessione [molto] critica sulla comunicazione scientifica attuale...

...per vedere come la Open Science sia una necessità: il COVID l'ha dimostrato, solo condividendo si progredisce...

...Open Science [diverso da Open Access] è un modo diverso di fare scienza, non una serie di regolette: e favorisce integrità...



Jon Tennant  
@Protohedhog

Following

My first talk of the year! Message is going to be that the opposite of 'open science' isn't 'closed science' - it's bad science.

...il contrario di Open Science è «Bad Science», non «Closed Science»

...spostare l'accento da «pubblicare» a «condividere la conoscenza»/aprire ogni passo della ricerca subito

Open Science, Open Innovation, EOSC, FAIR: esserci!



...perché dovrebbe interessarci?

**THUNE**  
Jewelry & Watches

**NEW LOCATION!**

Welcome to our new Flagship store in Stortingsgaten 6. Here you can find the most exclusive and large selection of jewelry and watches.

NO OPEN SCIENCE,  
NO MONEY!

**NEW LOCATION!**

Welcome to our new Flagship store in Stortingsgaten 6. Here you can find the most exclusive and large selection of jewelry and watches.

Stortingsgaten  
Karl Johans gate  
Eger-torget



***Excellence – aspects to be taken into account.***

- Clarity and pertinence of the project’s objectives, and the extent to which the proposed work is ambitious, and goes beyond the state of the art.
- Soundness of the proposed methodology, including the underlying concepts, models, assumptions, interdisciplinary approaches, appropriate consideration of the gender dimension in research and innovation content, and the quality of open science practices, including sharing and management of research outputs and engagement of citizens, civil society and end users where appropriate.

Application template

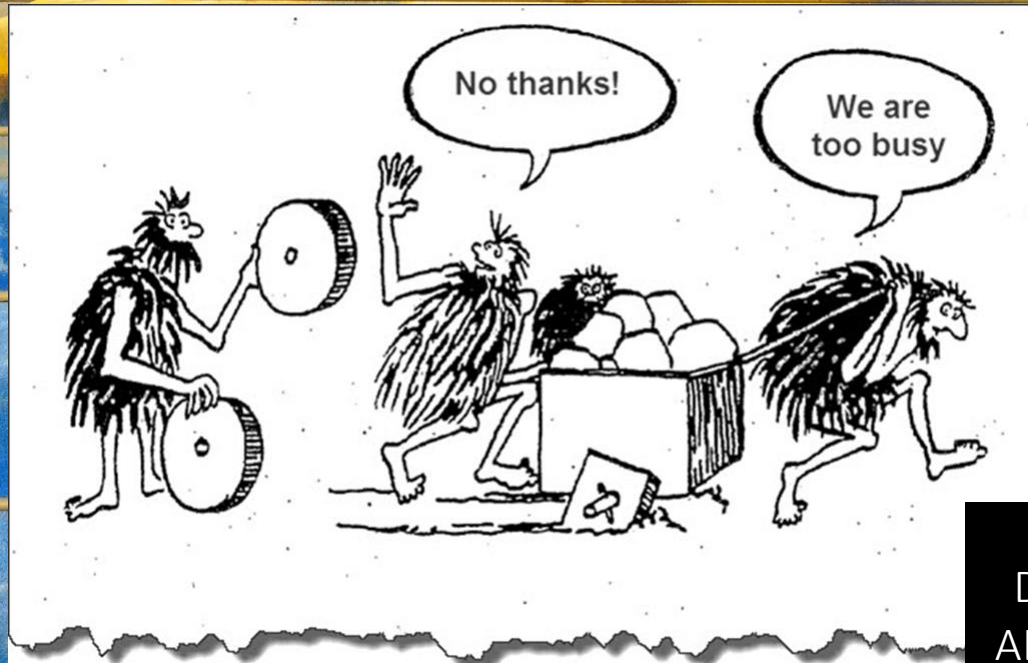
OPEN SCIENCE È UN METODO.  
IN HORIZON EUROPE VERRÀ **VALUTATA** EX ANTE NELLA  
SEZIONE «**ECCELLENZA**» DELLA PROPOSTA E PER LA  
SOLIDITÀ DEL CONSORZIO





# Open Science?

OPEN SCIENCE NON È IL FINE IN SÉ.  
SERVE PER UNA SCIENZA PIÙ  
TRASPARENTE, SOLIDA, RISPONDENTE  
AI BISOGNI DELLA SOCIETÀ



...PER QUESTO  
DAREMO PIÙ SPAZIO  
ALLA RIFLESSIONE CHE  
NON ALLE REGOLE

SE NON SI RAGIONA SUL  
REALE VALORE E IL POTENZIALE TRASFORMATIVO  
DELLA OPEN SCIENCE, LA VEDRETE SOLO COME  
L'ENNESIMO FARDELLO AMMINISTRATIVO

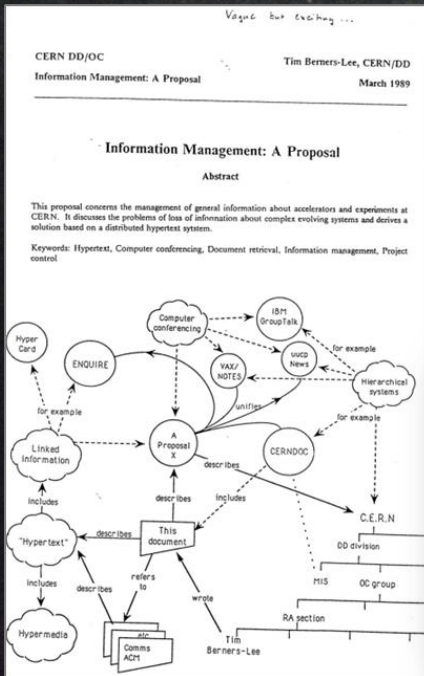


# Open Science in pratica?

"Vague but exciting"

CERN

www.cern.ch



...IL PROTOCOLLO HTTP ERA NATO COME STRUMENTO INTERNO – POTEVANO BREVETTARLO, TENERLO CHIUSO... HANNO DECISO DI APRIRLO PER TUTTI




...evolvere verso la open research



TOO EASY  
NOT TO DO

Scriberia 

Scriberia 

Scriberia, The Turing way

Illustration by Scriberia. Used under a CC-BY 4.0 licence. DOI:

# Occhi nuovi (e critici)



...PROVIAMO PER OGGI A VEDERE LA RICERCA E LA  
COMUNICAZIONE SCIENTIFICA IN MODO DIVERSO...  
SENTIRETE COSE NUOVE, A VOLTE SPIACEVOLI

...CHE NON VUOL DIRE NON CREDERE ALLA  
SCIENZA, MA NON SCADERE NELLO SCIENTISMO...



PERCHÉ FATE  
RICERCA?

...una domanda

SEI CIÒ CHE  
VOLEVI ESSERE  
OGGI?

TE.SOLOOGGI

"I chose to study science because I wanted to publish in Nature," said no undergraduate student ever.

Yet it only takes a few years of working in science before most researchers will be preoccupied with scholarly journal brands—some to the point of obsession. The quest for a coveted spot in a highly selective journal, still the hardest currency of career progress, forces researchers to make compromises with their ideals of scientific practice.

OPINION 11 JAN 2022

## How to reclaim ownership of scholarly publishing [Jan 11, 2022](#)

By Björn Brembs, Gustav Nilsson and Toma Susi

Share [f](#) [t](#) [in](#) [e](#)



...cominciamo?

NON DATEMI  
CONSIGLI

SO SBAGLIARE  
DA SOLO



# Comunicazione scientifica è ...

ACCESSO

CONSERVAZIONE

GESTIONE DEI DIRITTI  
(autori, lettori,  
editori)

PRODUZIONE

ECONOMIA  
(e profitti)

COSTI

(reali e di mercato – «anelastico»)

TECNOLOGIA

NUOVI MODELLI  
(e loro sostenibilità)

CANALI  
(monografie, riviste...)

**VALUTAZIONE  
DELLA RICERCA**



# Comunicazione scientifica, le funzioni

LO STESSO STRUMENTO  
USATO PER COMUNICARE  
LA SCIENZA VIENE USATO  
PER VALUTARE I  
RICERCATORI

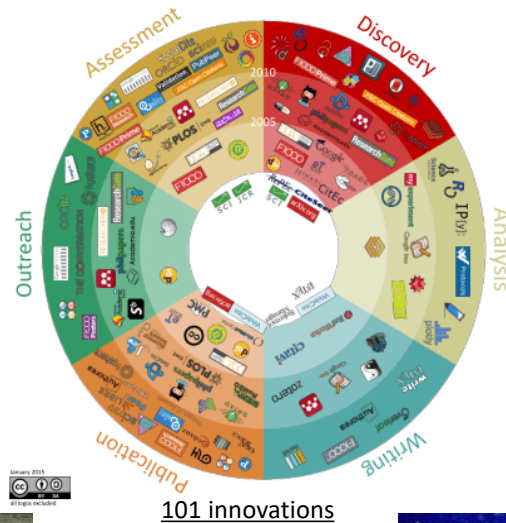
REGISTRAZIONE

CERTIFICAZIONE

[Impact Factor]

RICOMPENSA

101 Innovative tools and sites in 6 research workflow phases  
(< 2000 - 2015)



PUBBLICITÀ  
[AWARENESS]

LA PUBBLICAZIONE  
È DIVENTATA  
D'INTRALCIO ALLA  
COMUNICAZIONE

ARCHIVIAZIONE

Guest Post by Jean-Claude Guédon:  
Scholarly Communication and Scholarly  
Publishing

CASPA

Open Access  
Scholarly Publishing  
Association



# ...cosa ci ha insegnato il COVID

I DATI APERTI  
SALVANO VITE

Digital Science Report  
**The State of Open Data 2021**  
The longest-running longitudinal survey and analysis on open data  
Foreword by Natasha Simons, Australian Research Data Commons (ARDC)  
Nov. 29 2021  
November 2021

Open data saves lives. The globe  
beyond anything that came before it  
in solving the big challenges of our time

**SERVONO I DATI**  
**[FAIR BY DESIGN]**  
**(E NON SOLO LA**  
**SINTESI FINALE**  
**SOTTO FORMA DI**  
**ARTICOLO)**

 **tech economy 2030**  
Digital transformation for sustainability


2020

Home · #SDG3 · Open Science è una necessità, non una noia burocratica

#SDG3 · In Evidenza · Sostenibilità Culturale

Open Science è una necessità, non  
una noia burocratica

IL COVID HA DIMOSTRATO CHE  
OPEN SCIENCE È UNA  
NECESSITÀ

 **Sanjee Baksh, PhD** @S\_Baksh · 21h

**Congratulations to the authors but I am not strong enough for this**

[Mostra questa discussione](#)

<https://doi.org/10.1038/s41586-022-04627-1>

received: **25 June 2019**

accepted: **4 June 2021**

published online: **20 April 2022**

...GLI ARTICOLI SERVONO  
SUBITO: PREPRINT!  
CON IL SISTEMA TRADIZIONALE  
AVREMMO VISTO I PRIMI  
ARTICOLI (**SENZA DATI**) SE VA  
BENE A DICEMBRE 2020  
(9-18 MESI TEMPI MEDI DI PUBBLICAZIONE)

 **Raphaël Lévy**  
@raphavisses

**#OSEC2022 @BoukacemZeg**

(applauded by @stephen\_curry) concludes her talk with a quote from a young research who left science saying "GAME OVER: The pandemic is a life-size experiment that reminded us that the ultimate goal is to advance knowledge, not egos, not numbers"

[Traduci il Tweet](#)

Feb. 4 2022

5:10 PM · 4 feb 2022 · Twitter Web App

LA PANDEMIA CI RICORDA CHE LO **SCOPO**  
**DELLA RICERCA È FARE AVANZARE LA**  
**CONOSCENZA, NON SONO I NUMERI O IL**  
**NOSTRO EGO**

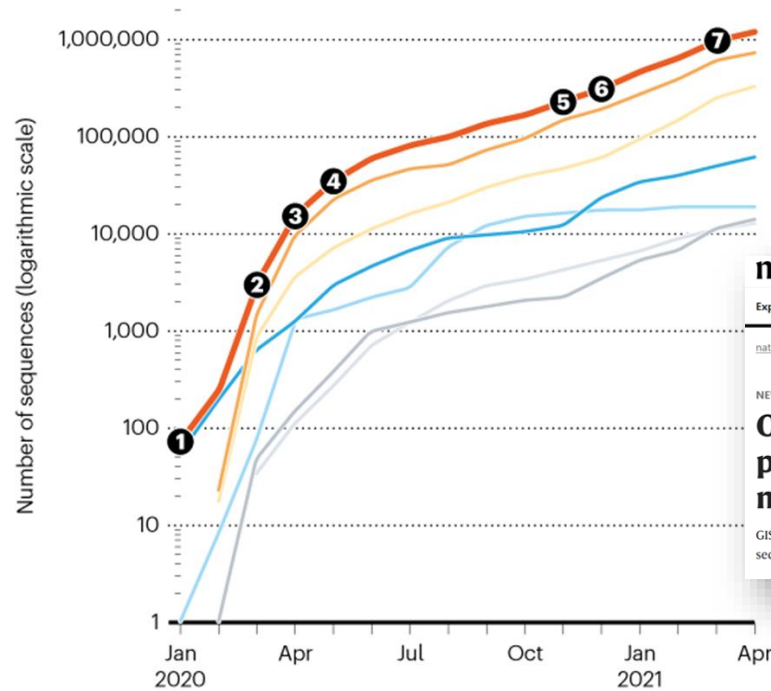


# COVID ti

## COLLABORATION IN THE TIME OF COVID

More than one million SARS-CoV-2 genome sequences have been shared on the GISAID data-sharing platform since January 2020, and are helping researchers to track the spread of viral variants. Most are from the United States and Europe, but contributions come from every region of the world.

— Global — Europe — North America — Asia  
— Oceania — South America — Africa



nature

2021

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[nature](#) > [news](#) > article

NEWS | 23 April 2021

### One million coronavirus sequences: popular genome site hits mega milestone

GISAID's impressive effort to understand the spread of COVID-19 has seen scientists upload sequences from most nations on Earth.

- 1 January:** First SARS-CoV-2 genome, from China.
- 2 March:** First African sequence, from Nigeria.
- 3 April:** Victoria, Australia, has 1,300 cases; 80% are sequenced, identifying clusters from cruise ships and hospitality venues.
- 4 May:** UK sequences 6% of cases, more than any other country.
- 5 November:** South African surge prompts intensified surveillance. Researchers find a widespread new variant — B.1.351.
- 6 December:** 40% of genomes sequenced in Manaus, Brazil, are of the P.1 variant, with mutations linked to increased transmissibility and immune evasion.
- 7 March:** US sequencing rate doubles, owing to a government mandate for surveillance and funding from the Centers for Disease Control and Prevention.



# ...cosa ci ha insegnato il COVID / 2

**nature** Feb 4, 2020 [Subscribe](#)

EDITORIAL · 04 FEBRUARY 2020

## Calling all coronavirus researchers: keep sharing, stay open

As the new coronavirus continues its deadly spread, researchers must ensure that their work on this outbreak is shared rapidly and openly.

professor at the University of Montreal, who studies the way science is disseminated. He said the move to speed up publication and share research is a tacit admission that business-as-usual in research slows down science.



University of Montreal researcher Vincent Stenger says the climate of open science suggests that such barriers. (Amélie Philibert)

"[They say] we're opening everything because it's important that we advance things fast. Well, the flip side of this argument is that your normal behaviour is to put barriers to science."

"This virus is dangerous and deadly, but there's lots of other diseases that are dangerous and deadly, and for which opening could save lives. So if you really want to go in that direction, just open everything."

Health · Second Opinion  
**'We're opening everything': Scientists share coronavirus data in unprecedented way to contain, treat disease**  
Feb.1, 2020

...GLI SCIENZIATI **ADESSO** STANNO APRENDO DATI E ARTICOLI SU COVID-19...  
**SIGNIFICA CHE IL COMPORTAMENTO «NORMALE» INVECE È QUELLO DI METTERE BARRIERE ALLA CONOSCENZA**

**LA PANDEMIA HA MOSTRATO CHIARAMENTE CHE NON SI POSSONO TENERE DATI E RISULTATI CHIUSI DIETRO ABBONAMENTI DA MIGLIAIA DI DOLLARI E TEMPI DI PUBBLICAZIONE CHE RAGGIUNGONO I DUE ANNI**



# ...editori e COVID



**Heather Joseph** @hjoseph

Unreal. Acknowledging that making these papers [#openaccess](#) will help speed progress and save lives but at the same time only doing it for limited time - and for a single disease.

IRREALE. SANNO CHE SALVANO VITE  
MA APRONO  
- SOLO PER UNA MALATTIA  
- E PER UN TEMPO LIMITATO



Roorick, June 2020

NON SAPIAMO QUALE RICERCA  
CHE RESTA CHIUSA OGGI  
POTREBBE ISPIRARE DOMANI SOLUZIONI E  
IDEE...NESSUN LOCKDOWN PER LA RICERCA

SOLO CORONAVIRUS?  
ALZHEIMER, CANCRO,  
CAMBIAMENTO CLIMATICO,  
VIOLENZA SULLE DONNE  
SONO MENO  
IMPORTANTI?...

SI RENDONO CONTO CHE L'ACCESSO  
IMMEDIATO SALVA VITE...

March 13, 2020 NEWS RELEASE  
STM  
The global voice of scholarly publishing

the significant threat that COVID-19 represents to public health. In order to aid the efforts to slow the spread of the virus and, fundamentally, to save lives, STM publishers are committed to

- Provide [immediate free access to all relevant peer-reviewed publications](#) to ensure that [for the duration of the outbreak](#), research and data quickly reaches the widest possible



CON LE BIBLIOTECHE  
CHIUSE IN LOCKDOWN I  
NOSTRI STUDENTI HANNO  
AVUTO ENORMI  
DIFFICOLTÀ CON IL  
MATERIALE DIDATTICO...  
POSSIBILE CHE UNA  
UNIVERSITÀ PUBBLICA  
NON POSSA GARANTIRE  
DISPENSE O TESTI  
PUBBLICI???

## What's "Open" During COVID-19? In Global Pandemic, OER and Open Access Matter More than Ever

Posted April 14, 2020

By Lindsey Gumb

Higher education

Jan. 29, 2021

### 'Price gouging from Covid': student ebooks costing up to 500% more than in print

Call for inquiry into academic publishers as locked-down unable to access study material online

In Italia è successo che certi editori, in maniera programmatica, hanno deciso di vendere l'elettronico solo ai singoli e non alle biblioteche. Altri, pur avendo praticamente solo testi e collane universitarie, non hanno nessuna versione elettronica: stampano le singole copie coi torchi???



Examples librarians have given include an education textbook called An

The university is so exasperated by what Ayris calls "the scandal of ebooks", that it has just decided it will begin publishing its own open-access textbooks. "This is a direct response to this crisis," he says. "We fed up with paying these prices when our academics are writing the textbooks. In the future, universities need to club together and take control of their own publishing."

The Guardian approached the Publishers' Association but it declined to comment.

Integrated Play-based Curriculum for Young Children, published by Routledge, offered to libraries for £36.99 in print but for £480 for an ebook that can only be read by one student at a time. The cost to libraries for one business studies book, Fundamentals of Corporate Business, published by McGraw Hill, was £65.99 in print and £528 as a single user ebook.



# Comunicazione scientifica oggi...

... PAGHIAMO GLI EDITORI COMMERCIALI PERCHÉ  
METTANO SOTTO CHIAVE IL CONTENUTO CREATO  
CON **FONDI PUBBLICI** DA **AUTORI NON PAGATI** E  
CERTIFICATO DA **REVISORI NON PAGATI**...

"Learning on knowledge graph dynamics provides an early warning of impactful research"

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Access through your institution

**Purchase PDF**

The Journal of Academic Librarianship  
Volume 47, Issue 5, September 2021, 102436

Mapping the open access ecosystem

Astrid Jaime ... Piedad Lucia Barreto

**The purpose of publications  
in a pandemic and beyond**

distinction than dissemination. And when it comes to a global emergency, we're still having to beg publishers for access to our own research so that we might save large swathes of the human

Apr. 22, 2020

E DURANTE LA PANDEMIA DOBBIAMO PREGARLI PER  
AVER ACCESSO ALLE NOSTRE RICERCHE...

[reminder #1]



...CHIUDERE DIETRO ABBONAMENTO  
SIGNIFICA PRECLUDERE L'ACCESSO ALLA  
RICERCA SOLIDA...  
E LASCIARE SPAZIO ALLE FAKE NEWS

Open science needs no martyrs,  
but we must recognize the need  
for reform

Oct. 28 2021 28 October 2021



“

“...the result is  
also that good,  
solid science  
stays behind  
paywalls, while  
lots of  
misinformation  
is openly  
accessible.”

”



# Comunicazione scientifica. Qualche cifra

Indovinate cosa rappresentano

4

4,4 milioni €

7.6 miliardi \$

38%

521%

1 miliardo



# Comunicazione scie cifra

COSTO DELLA PEER  
REVIEW

RESEARCH

Open Access

A billion-dollar donation: estimating the cost of researchers' time spent on peer review



Balazs Aczel<sup>1\*</sup>, Barnabas Szasz<sup>1\*</sup> and Alex O.

1 miliardo \$

VOLTE PER CUI OGNI  
ENTE PAGA LA RICERCA

4

For researchers, it's like going to a restaurant, bringing all of your own ingredients, cooking the meal yourself, and then being charged \$40 for a waiter to bring it out on a plate for you.

You are the provider, the product, and the consumer.  
J. Tennant, 2018

STIPENDIO

FONDI RICERCA

SI PUBBLICANO I RISULTATI

ABBONAMENTI

4,4 milioni €

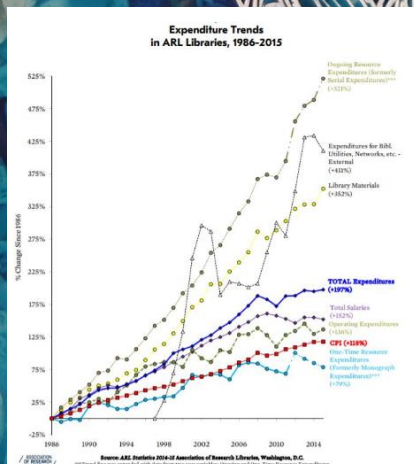
DIRITTI DI RIUSO

521%

AUMENTO DEI PREZZI  
DELLE RIVISTE 1986-2015

INDOVINATE: I  
BUDGET  
BIBLIOTECA SONO  
CRESCIUTI 521%?

TAGLI, TAGLI, TAGLI



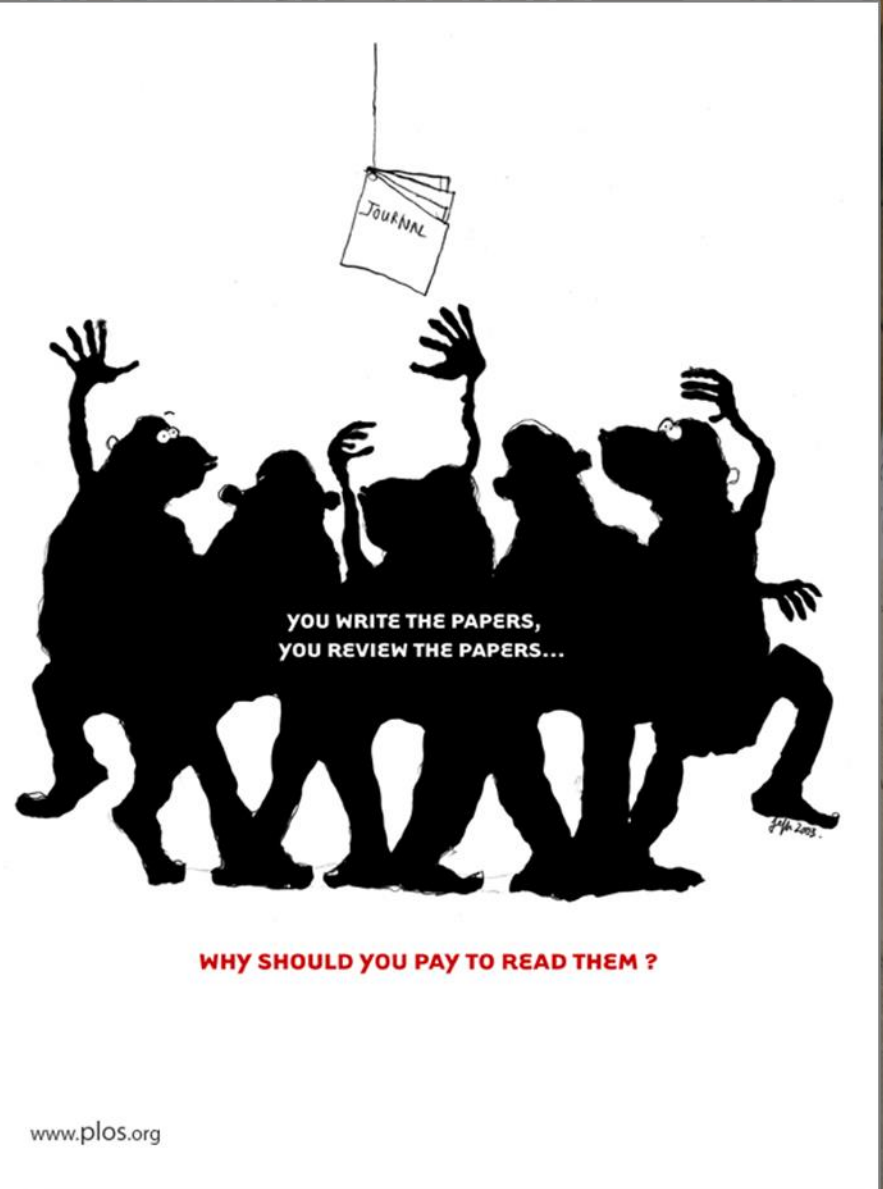


"They take our free labour, package it, and sell it back to us for windfall profits. The result is that one of our core activities - sharing research - is largely governed by the drive to deliver shareholder value. It doesn't have to be that way."

Jefferson Pooley, Muhlenberg College



# Communication





# Comunicazione

# Qualche cifra



OGGI LEGGERE NON È GRATIS

IN REGIME DI ABBONAMENTO PAGHIAMO 3800/5000 \$ PER ARTICOLO

SOLO CHE PAGHIAMO PER CHIUDERE

Science

A new mandate highlights costs, benefits of making all scientific articles free to read  
By Jeffrey Brainard | Jan. 1, 2021, 12:01 AM  
Jan 1, 2021

7.6 miliardi \$  
[SOTTOSTIMATO] CIFRA SPESA GLOBALMENTE PER ABBONAMENTI 2016

38%

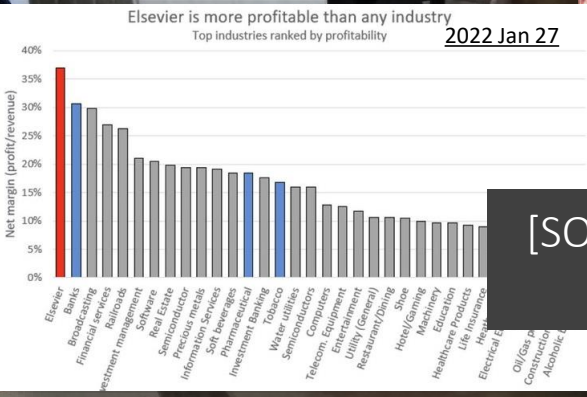
GUADAGNO NETTO ELSEVIER

**Darragh Duffy** @darragh\_duffy

Elsevier's scientific publishing arm reported profits of £724 million on £2 billion in revenue - a 36% profit margin—higher than Apple, Google, or Amazon- where authors generate the "product", pay open-access fees, reviewers peer review for free & institutions pay to access 🙄

**Eloy Rodrigues** 20 h · 🌐

This is the publishers perspective (from the concluding paragraphs):  
"The journal publishing industry's annual revenues of about \$10 billion represent less than 1% of total global spending on R&D—and, in this view, it's reasonable to divert more of the total to scholarly communications that are essential to making the entire enterprise run."  
So it doesn't matter if there is growing evidence that we could have a much better scholarly communication system (more efficient, more innovative, more inclusive, more transparent and self-correcting) for a fraction of this \$10 billion. Let's focus on maintaining the current system, and especially the current big commercial companies that benefit from it, even if we (research institutions, governments and their taxpayers) need to use more resources to feed it. Right?  
Wrong!



Profit	Company	Industry
10%	BMW	automobiles
23%	Rio Tinto	mining
25%	Google	search
29%	Apple	premium computing
35%	Springer	scholarly publishing
37%	Elsevier	scholarly publishing

10 MILIARDI NEL 2020 ...E NE VORREBBERO ALTRI...



# [un test: cosa costa di più?]



LIBRARY

PROVATE... E AVRETE  
UN'IDEA DEI COSTI

## What costs more Univ. of Virginia

What costs more?

Which is more expensive? *(required)*

- Estimated cost of access to Wiley Online Library in 2025, if the Library stayed with the traditional model
- Two months at sea off the south of France, with 12 of your closest friends and a crew of 12 on a 211' yacht.



Next Slide

**Nope!**

A summer-long trip on a private yacht in the French Riviera doesn't run cheap, but you can get it for less than 7 figures. Access to Wiley Online Library under traditional models is estimated to cost more than a million dollars in 2025.

In the course of 9 years, the collections budget consumed by the four Big Deal vendors went from 21% (2009) to 43% (2018), a clearly unsustainable pace of increase.

Next Slide



Jean-Sebastien Caux  
@jscaux

Following

The prospectus for the IPO of Springer Nature  
[proxy.dbagproject.de/mediacenter/re ...](http://proxy.dbagproject.de/mediacenter/re...)  
should be compulsory reading for any funder/university/agency representative negotiating with publishers. You can then question whether you should support #SciPost and similar initiatives, or can afford not to.

Traduci il Tweet

13:38 - 5 May 2018

22 Retweet 28 Mi piace



CAUTION

Prospectus dated April 25, 2018  
**SPRINGER NATURE**  
Prospectus  
for the public offering

*Focus on Research, with a High-Quality Brand Portfolio, Global Scale Benefit from Strong Growth in the Open Access Publishing Market.*

increasingly important, as market participants increasingly differentiate in the open access market with regard to APCs according to a journal's impact factor. Our open access portfolio includes a large number of leading brands, such as such as Nature Communications, Scientific Reports and Springer Open, and high impact factor publications, positioning us well to command premium APCs from authors.

Springer Prospectus Apr. 25



[scegliete  
il gioco è sp

Linking impact factor to 'open access' charges creates more inequality in academic publishing

needed to fulfil our obligations. This has seen us stop using journal impact factors in isolation in our marketing (note: a prospectus is a legal document aimed at potential investors, not a marketing tool for authors or librarians). In fact, for more than 10 years, long before DORA, Nature editorials have expressed concerns about the overuse

### 10.2.5 Increasing Share in Revenues from Open Access

### LA LOGICA DEL PRESTIGIO... ABERRANTE

Springer Nature was one of the first academic publishers to actively embrace the opportunities offered by open access, which provides us additional opportunities to generate revenues, as open access publications are funded by authors and/or their funders or the relevant research institutions, not libraries. Accordingly, revenues stemming from APCs are in the short- to medium-term supplementary to the subscription business, not cannibalistic. Some of our journals are among the open access journals with the highest impact factor, providing us with the ability to charge higher APCs for these journals than for journals with average impact factors.



## Scientific, Technical & Medical

	Year ended 31 December				
	2021 £m	2020 £m	Change	Change at constant currencies	Change underlying
Revenue	2,649	2,692	-2%	+4%	+3%
Adjusted operating profit	1,001	1,021	-2%	+3%	+3%
Adjusted operating margin	37.8%	37.9%			

*88% of revenue electronic*

**Improved underlying revenue growth driven by further development of datasets and analytics.**

In Primary Research growth was driven by broader content sets, increasing sophistication of analytics, and evolving technology platforms. Article submissions remained at last year's elevated levels. The number of articles published grew strongly, with continued growth in subscription articles and particularly strong growth in open access articles, leading to further market share gains in both payment models.

REPORT ELSEVIER  
2021  
NET GAIN 37,8%

- UNICO SCOPO IL PROFITTO (NON L'AVANZAMENTO DELLA CONOSCENZA, IMPOSSIBILE SE SI CHIUDE DIETRO ABBONAMENTO)
- OPEN ACCESS = SOLO UN'ULTERIORE FONTE DI GUADAGNO [ECCO PERCHÉ LA «TRANSIZIONE» DURA DAL 2003]

- **Paid subscriptions** - Our Scientific, Technical & Medical (STM) primary research content, like that of most of our competitors, is sold largely on a paid subscription basis. There is continued debate in government, academic and library communities, which are the principal customers for our STM content, regarding to what extent such content should be funded instead through fees charged to authors or authors' funders and/or made freely available in some form after a period following publication. Some of these methods, if widely adopted, could adversely affect our revenue from paid subscriptions.

- OPEN SCIENCE «COULD ADVERSELY AFFECT OUR REVENUE FROM SUBSCRIPTIONS»
- DECIDETE VOI SE CREDERE ANCORA QUANDO VI DICONO «WE ARE HERE TO COLLABORATE AND HELP RESEARCHERS ADVANCING OPEN SCIENCE/OPEN ACCESS»





Discussione

Jan 21, 2022



The academic journal  
Nature

Hey Tristopher. Yeah, boss what's up?



2022

AISA

Associazione italiana per la promozione della scienza aperta

L'open access ad ogni costo non può essere una opzione.

NATURE CHIEDE APC DI 11.000 \$ PER  
UN SOLO ARTICOLO IN OPEN ACCESS...

**L'OPEN ACCESS DEI GRANDI EDITORI  
NON È OPEN ACCESS!**

[scegliete voi se stare al gioco, ma  
il gioco è sporco]

METROPOLITAN  
POLICE





One may argue that authors ought to be able to choose their publication venue and I agree, of course. There should not be any restrictions on the choice of publication venue. However, arguably, this does not necessarily entail that the public purse must reimburse authors for even their most extravagant publication choices, if reasonable substitutes exist.

An analogy may help explain the argument: In many areas of science, transportation is needed for small groups of students and faculty to do field research. According to procurement rules, a tender would be organized and the award may, for instance, go to a company that sells electric vans seating seven passengers and a driver, and offers a ten year warranty. Many would probably agree that the cost of some tens of thousands \$/€ for each van is reasonable, given the functionality of the vans and their climate-friendly propulsion. Faculty, however, claim that because these vans do not carry enough prestige, each van must instead be replaced with eight 1930s Rolls Royce Phantom II, such as this one:

have always argued for such a balance of public and researcher interests. academic freedom does not automatically exempt academics from procurement rules.

Therefore, ten experts advocate a ban on all negotiations with publishers and, instead, advocate policies that ensure that all publication services for public academic institutions must be awarded by tender, analogous to the example set by Open Research Europe and analogous to how all other, non-digital infrastructure contracts are awarded.

NON DOVREBBE ESSERE  
PERMESSO SPENDERE PER  
IL PRESTIGIO – VISTO CHE  
CI SONO ALTERNATIVE  
MENO COSTOSE E PIÙ  
EFFICACI

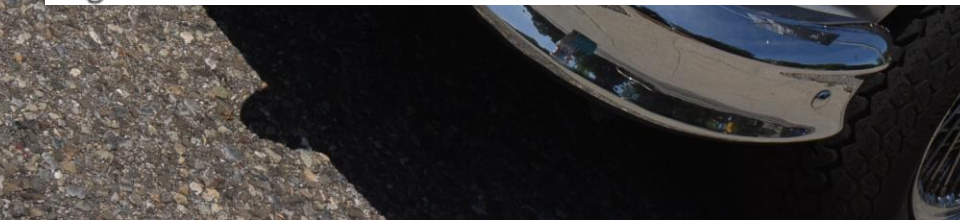
Mar  
30

### WHY PUBLICATION SERVICES MUST NOT BE NEGOTIATED

In: Science Politics • Tags: infrastructure, rolls royce March 2022  
or: how journals are like 1930s Rolls Royce Phantom IIs



without such prestige, the faculty argue, they cannot work, risk their careers and funding. Arguments that these ancient vehicles are unreliable, unaffordable and dysfunctional are brushed away by emphasizing that their academic freedom allows them to drive whatever vehicle they want to their field work. Moreover, they argue, the price of around one million is “very attractive” because of the prestige the money buys them.





# [reminder #2]



**Ivo Grigorov**  
@OAforClimate

In risposta a [@EvaHnatkova](#), [@Eurodoc](#) e altri 8

Challenges for [#OpenScience](#): “Publishing should serve Science, but it doesn’t! Science seems to serve publishers”, Kostas Glinos [@KGlinos](#) [@EU\\_Commission](#) [#KRECon2021](#)

[Traduci il Tweet](#)

1:32 PM · 11 nov 2021 · Twitter for iPhone [Nov. 11, 2021](#)

L’EDITORIA DOVREBBE ESSERE  
AL SERVIZIO DELLA SCIENZA, MA  
SEMBRA CHE SIA LA SCIENZA AL  
SERVIZIO DELL’EDITORIA

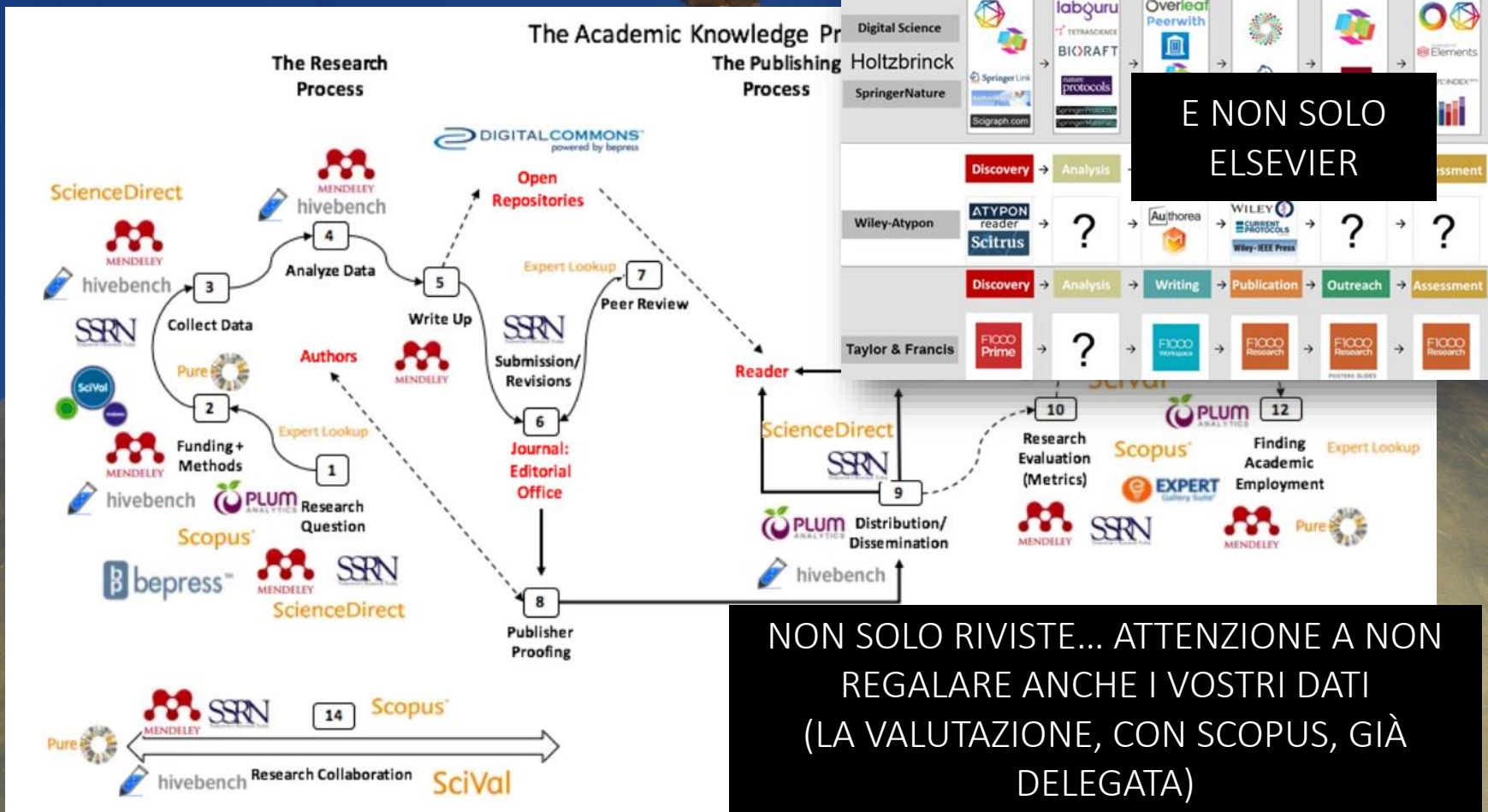


# Il meraviglioso mondo di



Publishers are increasingly in control of scholarly infrastructure and why we should care  
 A Case Study of Elsevier  
 Written by: Alejandro Posada and George Chen, University of Toronto Scarborough  
 Published on September 20th 2017

2017



E NON SOLO ELSEVIER



# 2020 Update: SPARC Landscape Analysis & Roadmap for Action

This report takes a look at the events of the past year—particularly the global COVID health crisis and its resulting economic impact—and provides updates on the academic publishing market landscape and the status of the key companies involved.

1. A significant deepening in the shift of major companies away from research publishing and towards research assessment;

2. A shift away from individual research distribution to more communal, consolidated models; and

3. The emergence of a “Bigger Deal,” where institutional content licensing is directly linked to the purchase of data analytics services.

2020

DAI TESTI AI DATA  
ANALYTICS



ELSEVIER

## About

Elsevier is a leader in information and analytics for customers across the global research and health ecosystems

NON SI PRESENTANO  
NEPPURE PIÙ COME  
EDITORI

The screenshot shows a webinar interface with a title '2021 UPDATE' and subtitle 'SPARC Landscape Analysis and Roadmap for Action'. It is labeled as a 'RESEARCH WEBINAR' by 'CLAUDIO ASPESI' on '9/29/2021'. The interface includes a video player area with several small video thumbnails of participants: Elena Giglia, Claudio, Giulio Marconi, and Cristina M. There is also a 'GM2021' logo in the top right corner of the video area.

NOI SIAMO IL  
PRODOTTO (E  
PAGHIAMO PURE!)

Surveillance Publishing

Nov. 2021

Jefferson D. Pooley  
Muhlenberg College  
pooley@muhlenberg.edu  
jeffpooley.com

It's a good business for Elsevier to have to give away their consumer-facing services to attract data-producing users. If you're not paying for it, the Silicon Valley adage has it, then you're the product. For Elsevier and its peers, we're the product *and* we're paying (a lot) for it. Indeed, it's likely that windfall subscription-and-APC profits in Elsevier's "legacy" publishing business have financed its decade-long acquisition binge in analytics.<sup>3</sup> This is insult piled on injury: Fleece us once only to fleece us all over again, first in the library and then in the assessment office.

Sfice



# [reminder #3]

SPARC\*

2021  
UPDATE

SPARC Landscape Analysis  
and Roadmap for Action

SPARC update 2021

The fact that Elsevier (and, potentially, other companies) would pursue interests that put them at odds with the interests of the academic community and tolerate internal conflicts of interest should not come as a surprise. The business of publishers is to make money; the “business” of academic institutions is to advance knowledge, not to enable publishers to achieve their commercial goals. Unfortunately, the responsibility for highlighting and resolving conflicts of interest falls squarely onto the academic community.

IL BUSINESS DEGLI EDITORI È FARE SOLDI;  
IL «BUSINESS» DEGLI ATENEI È FAR AVANZARE LA CONOSCENZA



# ...MA...la comunicazione scientifica è un mercato???

LA CONOSCENZA È UN BENE CHE SI DESIDERA CONDIVIDERE VS SCARSITÀ ARTIFICIALE GENERATA DALLE RIVISTE «PRESTIGIOSE»

Principles of the Self-Journal of Science: bringing ethics and freedom to scientific publishing

VERSION 1 Released on 24 January 2015 under Creative Commons Attribution 4.0 International License

2017

Michael Bon<sup>1</sup>

Authors' affiliations

1. SIS - The Self Journal of Science

## Inappropriateness

The dissemination of Science is organized as a free market, where publishers compete for reputation and scientists compete for limited number of slots in journals. The rationale of the free market economy is to have efficient exchanges of rare and substitutable goods (apples, mobile phones, money...) between those who own them and those who want them. Yet scientific knowledge, unlike money, is something its owners want to share. It is not a substitutable good. Scientists do want to be paid, but in a different currency – one that involves recognition and credit – whose amount on Earth is not limited. Therefore, the current system is deeply inappropriate to disseminate Science: it creates an artificial rarity that overrides the exchanges naturally underlying Science.



# Accesso?

95% SI SCONTRA CON UN PAYWALL



Joanne Kamens

@JKamens

Segui

In risposta a @jasonpriem e @unpaywall

and btw the "everyone who needs it has access" is completely wrong. I have worked in small biotechs for the last 10 years and hit frustrating paywalls EVERY DAY trying to do good science.

Traduci dalla lingua originale: inglese

15:14 - 4 gen 2018

permesso di accesso

Posta in arrivo x



Niccolò

gmail.com>

a me

Buongiorno,

sono uno studenti UNIMI e sto preparando la tesi, spesso nelle mie ricerche per il materiale, mi imbatto nel vostro sito IRIS ma non posso accedere all'articolo a cui sono interessato. Come posso ottenere il permesso?

The Results Are In of our Open Access Survey

Oct.2021

November 1, 2021 \* Author: Mary Kennedy

There were three parts to this survey. In the first part, we asked some general questions on the topic of open access. Here is what we found:

- 83% of the respondents agree that the scholarly community could perform research more effectively if all scientific communication were made freely available under an open access license.
- 95% of respondents have had the experience of being unable to access a research article they needed due to paywalls.
- 83% have downloaded an open access book for their research.
- Half of the respondents admitted to at least once illegally downloading a research paper that they couldn't access because it was behind a paywall.

Also, interestingly about **one-fifth of respondents said that the COVID-19 pandemic changed their view of open access research.** One responder commented particularly that they felt this when the

PMI, START-UP, PROFESSIONISTI,  
STUDENTI NEOLAUREATI...

NESSUNO PUÒ LEGGERE I RISULTATI DELLE RICERCHE  
(FINANZIATE CON FONDI PUBBLICI)



... se no, Sci-Hub non esisterebbe



Science Home News

# Who's downloading pirated papers?

# EVERYONE

In rich and poor countries, researchers turn to the Sci-Hub website.

2016

**Bernard Rentier** @bernardrentier Following

The single fact that providing free information on universal Science is illegal tells us a lot about how absurd it has become, in the Internet era, to rely on the old research publication model. #FreeOpenAccessNow

### Elsevier and Wiley Declare War on Research Community in India

Without access to the journals available on websites like Sci-Hub and Libgen, against which the copyright holders have filed a case in the Delhi High Court, it is almost impossible to do quality research.

Prabir Purkayastha 26 Dec 2020

Dec. 20, 2020

... like anyone can now create their own @sci\_hub mirror sidio/sci-hub You can use this to help accelerate research and society by access to millions of research articles. But it's probably illegal, so don't

#### RELATED STORIES

- India's Right to Education is a Failing in Reality
- The Impact of COVID-19 on Education
- Paraguayan Students and Peasants Demand Greater Budget for...
- Teachers' Unions Mount

2018 2018



[come ottenerne un pdf

# Alternative ways to access journal articles

2020

## FIND ARTICLES USING PLUG-INS

### • UNPAYWALL

Get full-text of research papers as you browse, using Unpaywall's index of 25 million legal, open access articles. For CHROME | Firefox <http://unpaywall.org/>

### • CORE DISCOVERY

One-click access to free copies of research papers whenever you hit the paywall. CORE Discovery helps users to discover freely accessible copies of research papers, out of a dataset of 135 million papers For CHROME | Firefox <https://core.ac.uk/services/discovery/>

### • GOOGLE SCHOLAR BUTTON

Easy access to Google Scholar from any web page. Find full text on the web or in your university library. Select the title of the paper on the page you're reading, and click the Scholar button to find it. For CHROME | Firefox | Edge <https://addons.mozilla.org/nl/firefox/addon/google-scholar-button/>

### • KOPERNIO

Get instant notifications of available versions from your library or otherwise. Extra features like a personal Locker, saved articles and more. For Chrome | Firefox | Opera <https://kopernio.com/>

### • OPEN ACCESS BUTTON

Free, legal research articles and data delivered instantly or automatically requested from authors. You can do this from the website, or install a browser extension/API. <https://openaccessbutton.org/>

### • OPEN ACCESS HELPER

## SEARCH FOR OPEN ACCESS ARTICLES

### • GET THE RESEARCH

Get the peer-reviewed research on any topic. Free, complete, powered by #openaccess and AI. From @unpaywall and @ArcadiaFund. <https://gettheresearch.org/>



### • CORE

CORE's search engine and index for aggregated research publications from repositories and journals globally. Developed by JISC and the Open University it offers access to around 135 million articles. <https://core.ac.uk/>



### • SCIENCE OPEN

Science Open contains over 61 million articles, a large part in open access. <http://www.scienceopen.com/>



### • DOAJ

The Directory of Open access Journals offers access to 14.000 open access journals. <https://doaj.org/>

## MORE POSSIBILITIES

### • REQUEST PDF VIA LIBRARY

This might not be free, but it's a fast option, and often much cheaper than buying it from the publisher. <https://www.kb.nl/bronnen-zoekwijzers/zoekwijzers/wetenschappelijke-literatuur-voor-iedereen/universiteitsbibliotheken-in-nederland>



### • REQUEST COPY VIA AUTHOR

Request a copy from the author directly: often not the fastest way, but traditionally a well-used route to get pdf's. You can try ReseachGate or Academia. Some institutional repositories of academic libraries have this feature too.



### • BUY FROM PUBLISHER

You can of course BUY it from the publisher or journal itself anyway...



### • HASHTAG #ICANHAZPDF

Use the hashtag #icanhazpdf together with a link to the requested publication; if somebody has access, they can send you the PDF.



### • SCI-HUB

If all else fails, you may be tempted to use Sci-Hub. Do realize, however, that in many countries, including The Netherlands, the use of Sci-Hub is considered as an illegal act, as it involves content protected by copyright laws and licensing contracts.

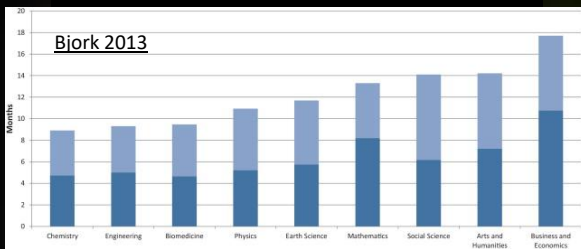




# Cosa otteniamo in cambio?

43%

## TEMPI MEDI DI PUBBLICAZIONE



9-18 MESI

## AUMENTO DI AUTOCITAZIONI POST VQR

179%

**Tweet** March 2018  
Jelte Wicherts @JelteWicherts  
Gaming the system: When in 2010 Italian universities incorporated citations in promotion decisions, self-citation rates among social scientists went up by 81-179%  
[sciencedirect.com/science/articl...](https://www.sciencedirect.com/science/article/...)

Science

RICERCHE NON RIPRODUCIBILI

**nature** Int  
Home | News & Comment | Research | Careers & Jobs | Current Issue | Archive | Audio & Video  
Archive | Volume 533 | Issue 7604 | News Feature | Article  
Nature 2016  
NATURE | NEWS FEATURE  
1,500 scientists lift the lid on reproducibility  
Survey sheds light on the 'crisis' rocking research.

70%

**PLOS ONE**  
Citation gaming induced by bibliometric evaluation: A country-level comparative analysis  
Alberto Baccini, Giuseppe De Nicolao, Eugenio Petrovich  
ANVR | Bibliometria  
Citarsi addosso. Ascesa scientifica dell'Italia? No, solo doping per inseguire i criteri ANVR

## More than half of high-impact cancer lab studies could not be replicated in controversial analysis

Cancer reproducibility project couldn't assess many papers because of uncooperative authors and other challenges

7 DEC 2021 · 8:00 AM · BY JOCELYN KAISER

Dec. 7, 2021

DURANTE LA PANDEMIA???



Paola Masuzzo @pcmasuzzo

Today I witnessed the celebration of a research article published in a (famous & glam) journal after 2 and a half years of revisions. I do feel happy for the authors, of course, but I cannot help wondering what's there to celebrate in such a slow scientific dissemination process.

Traduci il Tweet

6:58 PM · 9 mag 2019 · Twitter for Android

P.Masuzzo, Sept. 2019



# [Houston, abbiamo

<https://retractionwatch.com/>

## Retraction Watch

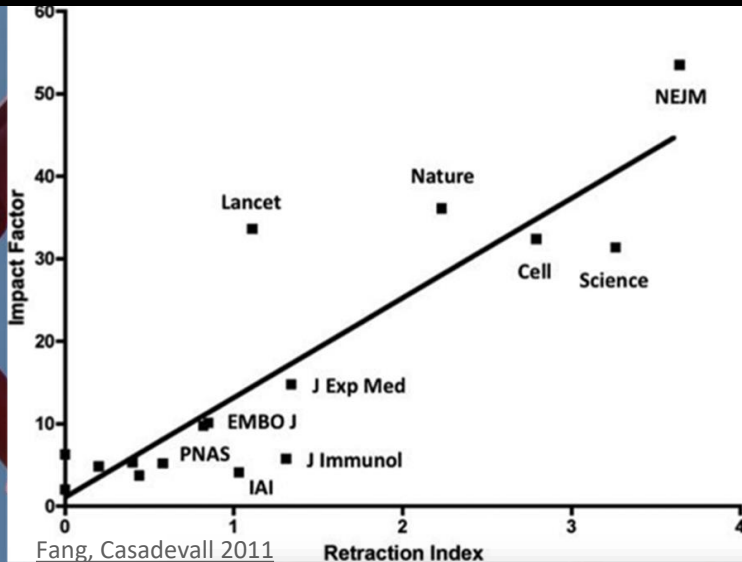
Tracking retractions as a window into the scientific process

## The Retraction Watch Leaderboard

Who has the most retractions? Here's our unofficial list (see notes on methodology), which we'll update as more information comes to light:

1. [Yoshitaka Fujii](#) (total retractions: 183) See also: [Final report of investigating committee](#), [our reporting](#), [additional coverage](#)
2. [Joachim Boldt](#) (136) See also: [Editors-in-chief statement](#), [our coverage](#)
3. [Yoshihiro Sato](#) (102) See also: [our coverage](#)
4. [Jun Iwamoto](#) (78) See also: [our coverage](#)
5. [Ali Nazari](#) (62) See also: [our coverage](#)
6. [Diederik Stapel](#) (58) See also: [our coverage](#)
7. [Yuhji Saitoh](#) (53) See also: [our coverage](#)
8. [Adrian Maxim](#) (48) See also: [our coverage](#)

CORRELAZIONE DIRETTA  
#RITRATTAZIONI/IMPACT FACTOR



Fang, Casadevall 2011

REVIEW article

Front. Hum. Neurosci., 20 February 2018 | <https://doi.org/10.3389/fnhum.2018.00037>

2018

## Prestigious Science Journals Struggle to Reach Even Average Reliability

Björn Brembs\*

Institute of Zoology—Neurogenetics, Universität Regensburg, Regensburg, Germany

ROYAL SOCIETY  
OPEN SCIENCE

[rsos.royalsocietypublishing.org](https://rsos.royalsocietypublishing.org)

The natural selection  
of bad science

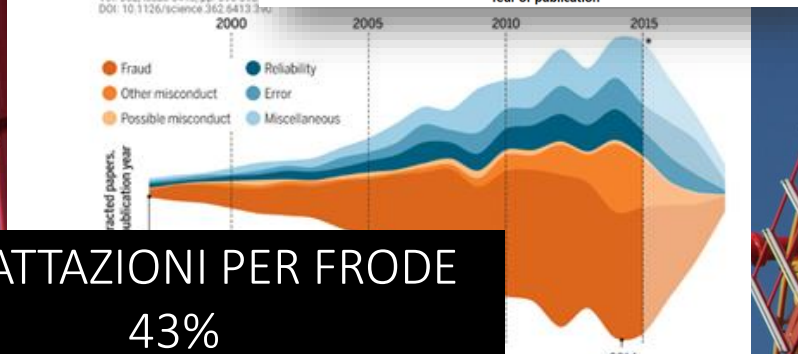
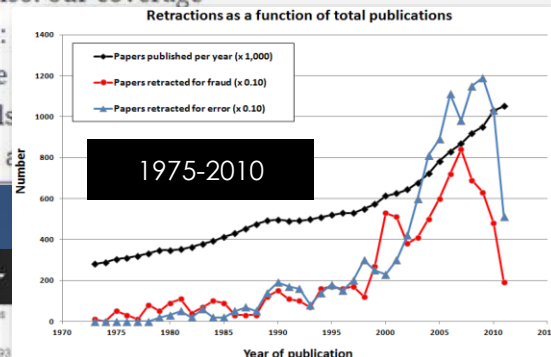
P.Smaldino, 2016

Science

Contents

See all authors and affiliations

Science 26 Oct 2018:  
Vol. 362, Issue 6413, pp. 390-393  
DOI: 10.1126/science.362.6413.390



RITRATTAZIONI PER FRODE  
43%

All retractions: 62  
Fraud: 29

All retractions: 419  
Fraud: 252

2014  
All retractions: 946  
Fraud: 411

J. Brainard, [Rethinking retractions](#), Science 2018



[riflettiamo]

Hi-impact journals publish unreliable science, but we reward publishing there.

Concentrated funding is wasteful, but the Matthew effect persists.

How can the public be expected to "follow the science" on the climate catastrophe, if not even scientists are following the science?

[Traduci il Tweet](#)

9:38 AM · 31 mag 2022 · Twitter Web App

May 31 2022



Dec. 2020

# Elsevier looking into “very serious concerns” after student calls out journal for fleet of Star Trek articles, other issues

iona?

An undergraduate student in the United Kingdom has taken to task the editors of a purportedly scholarly journal for having

Grech is a pediatric cardiologist, and, evidently a huge Star Trek fan. He’s also a prolific author, and seems to have turned *EHD* into something of a personal fanzine. As Gaddy notes in his letter, Grech has written at least 113 papers in *EHD*, an Elsevier title, 57 as sole author:

19 of these 113 ar

Star Trek. 1

that are rel

of this stop

l practices,

Many of t

category of

## Early Human Development

An international journal concerned with the continuity of fetal and postnatal life

Editor-in-Chief: [E. F. Maalouf](#)

[View Editorial Board](#)

[CiteScore: 3.1](#) [Impact Factor: 1.969](#)

Established as an authoritative, highly cited voice on early human development, *Early Human Development* provides a unique opportunity for researchers and clinicians to bridge the communication gap between disciplines. Creating a forum for the productive exchange of ideas concerning early human growth...

EARLY HUMAN  
DEVELOPMENT  
PUBBLICATO DA  
ELSEVIER  
«AUTOREVOLE,  
MOLTO CITATO»

Feb. 2, 2021

## Researcher to overtake Diederik Stapel on the Retraction Watch Leaderboard, with 61

*Nazari's publications include falsification of results, plagiarism (including self-plagiarism), and manipulation of authorship. A series of 13 recent retractions by Springer also noted "evidence of peer review manipulation." To date, these issues have resulted in 48 retractions. I have recently compiled a report, summarized by Retraction Watch, which documents how Nazari's works appear to be part of a scam ring.*

## No academic post for fraudster Diederik Stapel, after all 2016

Recently, we reported that social psychologist and renowned data faker Diederik Stapel had found himself a new gig supporting research at a vocational university in the Netherlands — but it appears that was short-lived.



Diederik Stapel

According to multiple news reports, NHTV Breda will not be employing Stapel, after all.

Here's on De Telegraaf

## Springer Nature slaps more than 400 papers with expressions of concern all at once Sept. 29, 2021

EDITORIAL EXPRESSION OF CONCERN

AUTHOR EXPRESSION OF CONCERN



# Le rovine della scienza

## Does scientific misconduct cause patient harm? The case of Joachim Boldt 2013

An internal investigation found no evidence of harm to the patients Boldt treated, and the the Cochrane review found "no change in the findings related to the inclusion or exclusion of the studies by Boldt et al.," according to the editorial. But the new meta-analysis found something different:

*After exclusion of the studies by Boldt et al, Zarychanski et al found that hydroxyethyl starch was associated with a significantly increased risk of mortality (risk ratio [RR], 1.09; 95% CI, 1.02-1.17) and renal failure (RR, 1.27; 95% CI 1.09-1.47).*

2018

## Stem cell researchers investigated for misconduct recommended for roles at Italy's NIH

Two stem cell scientists who left Harvard University in the aftermath of a messy misconduct investigation may have found new roles in Italy's National Institute of Health.



Piero Anversa

According to a document on the institute's website, which we had translated, Piero Anversa and Annarosa Leri have been approved to start work at the Istituto Superiore di Sanità (ISS) by the institute's board of directors. However, the president of the organization told us that the

## Springer Nature geosciences journal retracts 44 articles filled with gibberish Nov. 4, 2021





# [Impact Factor?]

nature index 2018

Home News Current Index Annual tables Supplements Client services About

Home > News > What's wrong with the journal impact factor in 5 graphs

EXPLAINER · 3 APRIL 2018

## What's wrong with the journal impact factor in 5 graphs

Scholars love to hate the journal impact factor, but how flawed is it?

### Causes for the Persistence of Impact Factor Mania

2013

Arturo Casadevall<sup>a</sup> and Ferric C. Fang<sup>b</sup>

Author information Copyright and License information Disclaimer

This article has been corrected. See [mBio. 2014 June 3; 5\(3\): e01342-14.](#)

This article has been cited by other articles in PMC.

**ABSTRACT** [Go to:](#)

Numerous essays have addressed the misuse of the journal impact factor for judging the value of science, but the practice continues, primarily as a result of the actions of scientists themselves. This seemingly irrational behavior is referred to as "impact factor mania." Although the literature on the impact factor is extensive, little has been written on the underlying causes of impact factor mania. In this perspective, we consider the reasons for the persistence of impact factor mania and its pernicious effects on science. We conclude that impact factor mania persists because it confers significant benefits to individual scientists and journals. Impact factor mania is a variation of the economic theory known as the "tragedy of the commons," in which scientists act rationally in their own self-interests despite the detrimental consequences of their actions on the overall scientific enterprise. Various measures to reduce the influence of the impact factor are considered.

## The Impact Factor is a bullshit statistic

J. Tennant 2017

is imposed by a very small number of highly cited papers

Mark	Journal Title	ISSN	Total Cites	Impact Factor
<input type="checkbox"/>	CURR BIOL	0960-9822	20020	7.007

Cited Journal Citing Journal Source Data Journal Self Cites

**Journal Impact Factor**

Cites in 2002 to items published in: 2001 = 3314  
 2000 = 3917  
 Sum: 7231

Number of items published in: 2001 = 528  
 2000 = 504  
 Sum: 1032

Calculation: Cites to recent items 7231 = **7.007**  
 Number of recent items 1032

ISI Web of Knowledge™

Journal Citation Reports™

2003 CR Science Edition

Journal: CURRENT BIOLOGY

Mark	Journal Title	ISSN	Total Cites	Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
<input type="checkbox"/>	CURR BIOL	0960-9822	22589	11.910	2.683	331	3.8	4.0

Cited Journal Citing Journal Source Data Journal Self Cites

**Journal Impact Factor**

Cites in 2003 to items published in: 2002 = 3628  
 2001 = 3923  
 Sum: 7551

Number of items published in: 2002 = 314  
 2001 = 300  
 Sum: 634

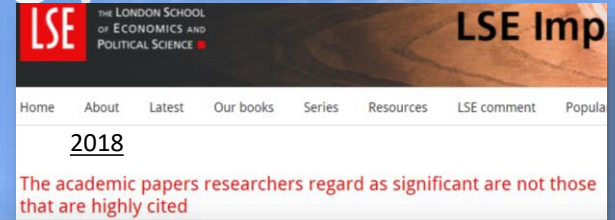
Calculation: Cites to recent items 7551 = **11.910**  
 Number of recent items 634

ni nell'anno X  
 sciti anni X-1 X-2

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icoli «citabili»  
 ati in X-1 X-2

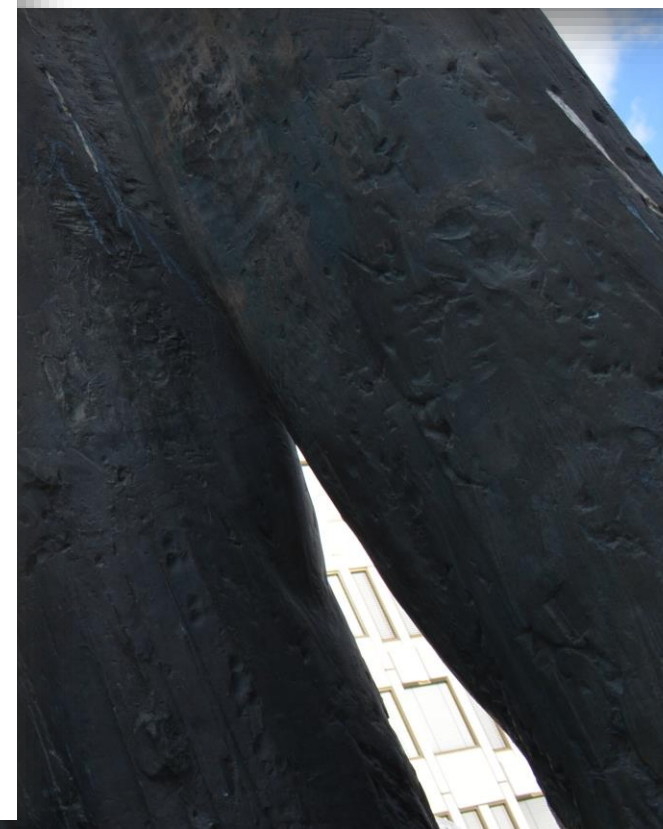
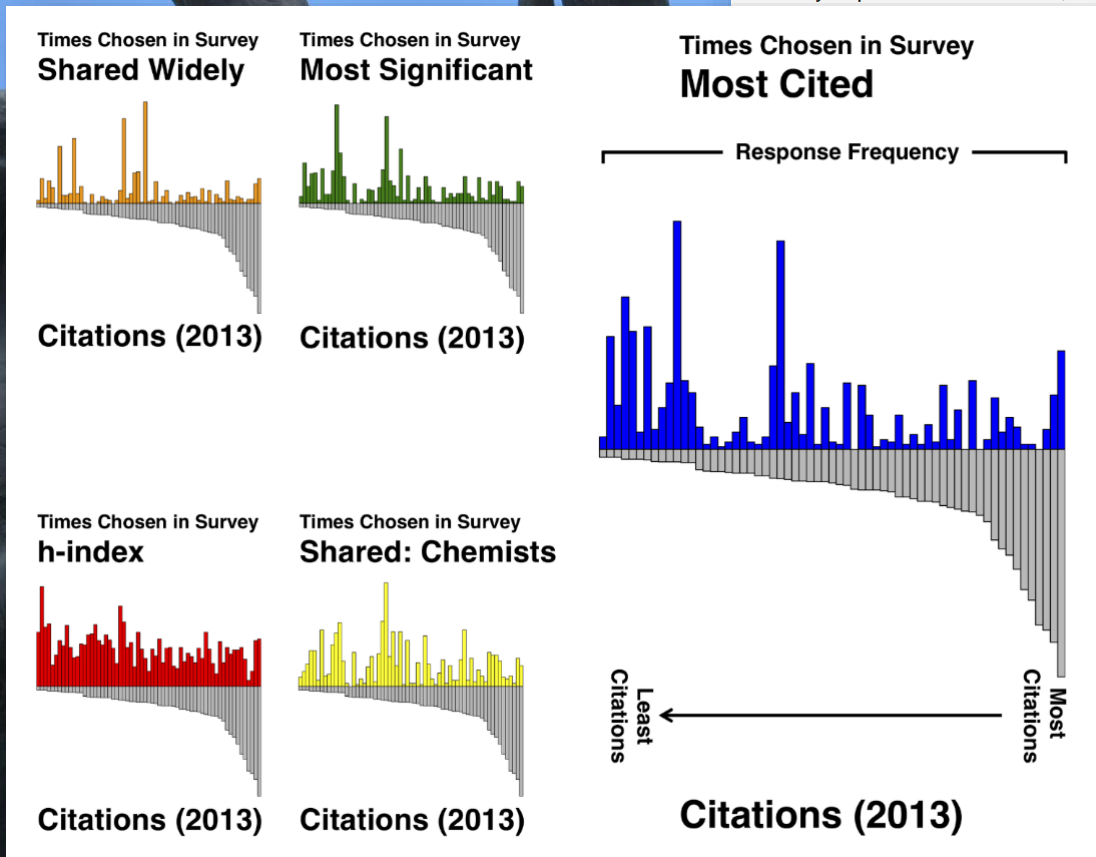
# ...citazioni? Cosa misurano?



So what now? We think this work clearly highlights a major issue with metrics – they aren't measuring what everyone commonly assumes we are measuring, or at least, are not accurately representing the more abstract perceptions of impact and importance that we measured in our survey.

As hinted earlier, we think our research shows that impact goes beyond citation count, and beyond scholarly impact. Recent articles, such as that in *PLoS Biology* and *Nature*, also call out current

what can we do to change current practice?





# ... perché valutazione = ossessione

## Lincei 2021, Illetterati 1.43'

Agli scienziati non basta più pubblicare i propri lavori. È imperativo che il lavoro pubblicato sia collocato in uno scaffale editoriale che gli conferisca prestigio e influenza. Questa tensione per l' impatto di quanto si pubblica colloca gli articoli scientifici al centro di una rete di metriche che guardano tipicamente a dove si pubblica e a quante volte il lavoro viene citato. Ottenere un buon punteggio attraverso l' applicazione di queste metriche diventa un obiettivo che gli scienziati e gli editori sono disposti a raggiungere barando.



ROMA

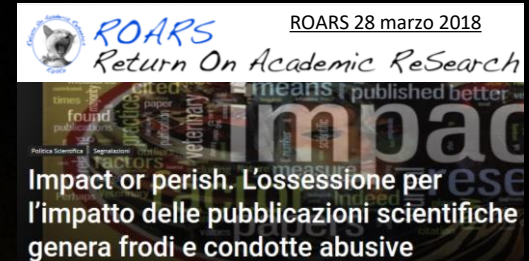
L'esperienza della valutazione della ricerca in Italia: un primo bilancio\* - sessione mattutina

THE  
ROYAL  
SOCIETY

The future of  
scholarly scientific  
communication  
2015  
Conference 2015

## LA VALUTAZIONE È DIVENTATA UN'OSSESSIONE

- «not only are we failing to provide the right incentives, we are providing perverse ones»
- Goodhart's law: «when a measure becomes a target, it ceases to be a good measure»
- «people game the system at every level»



Apr. 2022

## Russian site peddles paper authorship in reputable journals for up to \$5000 a pop

Advertisements promised adding names to articles that appeared in dozens of journals

## GAMING THE METRICS

Misconduct and Manipulation in Academic Research

Biagioli, 2019

EDITED BY Mario Biagioli AND Alexandra Lippman

# La valutazione è il problema

## VALUTAZIONE CON I CRITERI ATTUALI

- PRODUCE COMPORTAMENTI ADATTIVI
- PROMUOVE LA COMPETIZIONE INVECE DELLA COLLABORAZIONE
- MANTIENE IL SISTEMA INEFFICACE DELLE RIVISTE «PRESTIGIOSE»  
PAGATE A CARO PREZZO
- IMPEDISCE DI RICONOSCERE «PEZZI» DI RICERCA  
QUALI DATI, CODICE, BLOGS...

**International  
Science Council**

metrics designed to assess the importance and impact of research as an aid to evaluation, with publication outputs in traditional scientific journals being the major focus. These metrics in turn affect the behaviour of researchers, such as their choice of journals, as they seek to maximize their performance as measured by the metrics used. They can contribute to the maintenance of high journal prices, promote intense competition rather than openness and sharing, and fail to recognize research contributions such as the production of datasets, software, code, blogs, wikis and forums.

ICSU 2014



# Il sistema è rotto

Kostas Glinos based on Danny Kingsley, May 30, 2022

## Some of the challenges for science today

- Skewed perceptions of quality; reproducibility, replicability
- Focus on 'stars' rather than collaboration
- Publishing in a market where client is not the king; closed access
- Obsession with rankings
- Risk-averse research
- Hyper-publishing and hyper-authorship
- Fight for funding
- Wasting (data) resources, repeating doomed research
- Gaming the system

Is this the culture we want?

Slide adapted from a presentation by [Lizzy Reynolds](#), [Trinity University](#)



DAVVERO VOGLIAMO  
UNA CULTURA DELLA  
RICERCA COSÌ?

RESEARCH CULTURE IS BROKEN,  
OPEN SCIENCE CAN FIX IT



Research Culture is Broken, Open Science can Fix It | Rachael Ainsworth | TEDxMacclesfield



# Lo scopo della comunicazione

But let's not ignore the facts: the science system is in landslide transition from data-spa data-saturated. Meanwhile, scholarly communication, data management methodologies, reward systems and training curricula do not adapt quickly enough if at all to this revolution. **Researchers, funders and publishers (I always thought that meant making things public) keep each other hostage in a deadly embrace by continuing to conduct, publish, fund and judge science in the same way as in the past century.**

**So far, no-one seems to be able to break this deadlock.** Open solve only a fraction of the problem. Neither 'open research

PUBBLICARE= RENDERE PUBBLICO  
MA SIAMO OSTAGGIO DEL VECCHIO  
SISTEMA

**WONKHE** ABOUT US · EVENTS · LATEST · JOBS · SUBSCRIPTION · SUS · TW · Q  
**The purpose of publications  
in a pandemic and beyond**

The virus is reminding us that the purpose of scholarly communication is not to allocate credit for career advancement, and neither is it to keep publishers afloat. Scholarly communication is about, well, scholars communicating with each other, to share insights for the benefit of humanity. And whilst we've heard all this before, in a time of crisis we realise afresh that this isn't just rhetoric, this is reality.

COMUNICAZIONE  
SCIENTIFICA=CONDIVIDERE LE SCOPERTE  
PER IL BENE DELL'UMANITÀ

the coffin will be closed?!" If we've created a generation of scholars who are just in it for the glory of papers in glamorous journals, and not to do good research that changes the world a little bit, then we really are in trouble.

2020

SE ABBIAMO CREATO UNA GENERAZIONE DI  
RICERCATORI CHE PENSANO SOLO ALLA  
GLORIA DI UN ARTICOLO IN RIVISTE  
PRESTIGIOSE E NON A FARE BUONA RICERCA  
CHE CAMBI IL MONDO, SIAMO NEI GUAI



# Per questo serve la Open Science

LA SCIENZA È PIÙ FORTE QUANDO LAVORIAMO INSIEME  
OPEN SCIENCE CREA UN AMBIENTE IN CUI DIVERSE MENTI POSSONO  
LAVORARE INSIEME VERSO UNA SOLUZIONE

## Inclusion

Scientists for Open Science  
13th September 2021

Science is stronger when we work together — across distance, discipline and career stage.

COSA SERVE ANCORA OLTRE AL  
COVID PER FARCELO CAPIRE?

Sept.13, 2021

**Open Science fosters an environment where more scientific minds can work together toward solutions.**

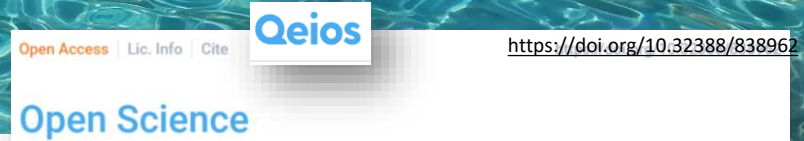
Open Access licensing allows all researchers, practitioners and students to read the latest scientific advances without a subscription, immediately upon publication. Sharing research artifacts like detailed methods, raw data, and code helps to contextualize the work, deepen understanding, and facilitate reproduction and adaptation. Together, expanded access and improved documentation enable more researchers to apply knowledge. Drive inspiration. And contribute their own insight and advances to the scientific record.





# ...per questo serve la Open Science

RICORDIAMOCI  
CHE STIAMO  
PARLANDO DI  
RICERCA  
FINANZIATA  
CON FONDI  
PUBBLICI



'Open Science' stands for the transition to a new, more open and participatory way of conducting, publishing and evaluating scholarly research. Central to this concept is the goal of increasing cooperation and transparency in all research stages. This is achieved, among other ways, by sharing research data, publications, tools and results as early and open as possible.

Open Science leads to more robust scientific results, to more efficient research and (faster) access to scientific results for everyone. This results in turn in greater societal and economic impact.

<https://www.accelerateopensecience.nl/what-is-open-science/>

NUOVO MODO DI

- CONDURRE
- PUBBLICARE
- VALUTARE

LA RICERCA

CONDIVIDENDO

- DATI/TESTI
- STRUMENTI
- RISULTATI...

PRIMA E PIÙ APERTO POSSIBILE

OBIETTIVO  
FINALE

QUESTO PORTA A  
SCIENZA PIÙ SOLIDA, ACCESSO PIÙ RAPIDO  
CHE SI TRADUCE IN IMPATTO SOCIALE/ECONOMICO



# Open Science

## Open Science Depends on Open Minds



Neelie Kroes ✓

Iscriviti 851



Jeff Rouder

@JeffRouder

Segui

What is Open Science? It is endeavoring to preserve the rights of others to reach independent conclusions about your data and work.

Traduci il Tweet

21:47



Open Science @openscience · 5 h

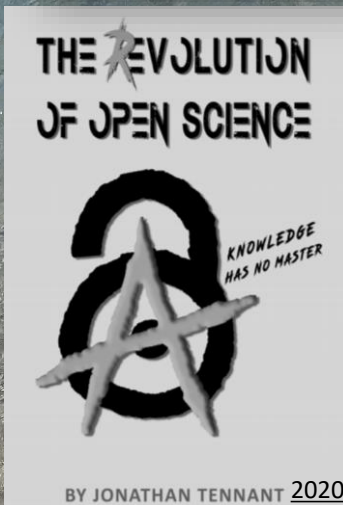
"Being open and transparent is an ongoing practice and not a check box at the end." - @biocrusoe #openscience



13



8



# [...cambiamento culturale o alibi?]

NON ASPETTIAMO CHE CAMBINO LE REGOLE DI VALUTAZIONE  
PER CAMBIARE PRATICA...  
SE NO DIVENTA ALIBI PER NON CAMBIARE MAI.  
IL CAMBIAMENTO SIAMO NOI.  
LE REGOLE VANNO FATTE CAMBIARE

## 'Devastating career event': scientists caught out by change to Australian Research Council fine print

Aug. 20, 2021

Researchers say a ban on preprint material citations in funding applications is a 'remarkably stupid own-goal for Australian science'

### Preprint rule out of line with 'modern publication culture'

In their 41-page document of instructions to DECRA applicants, the ARC asks researchers to "include information about national and international progress" relevant to their application and field of research

14 September 2021

One scientist said without referring to the preprint. Another said.

Another said: "I m... These are two fair... cite them I would

One astrophysicist... comments from A... citing a piece of sc... a preprint.

"I was really anno... ruled out on a tech

A Future Fellowship applicant, who described feeling angry, destroyed,



**Australian Government**  
**Australian Research Council**

Adjustments to the ARC's position on preprints

For future scheme rounds, the Australian Research Council (ARC) will allow the referencing and inclusion of preprints in a grant application. This includes within the Research Outputs list as well as the body of an application.

This adjustment to ARC's policy position reflects contemporary trends and the emerging significance of preprint acceptance and use across multiple research disciplines as a mechanism to expedite research and facilitate open research, as well as to provide greater equity across disciplines and career stages.



Yvonne Nobis @yvonnenobis · 1h

Aug. 20

This is bonkers. One of my partner's most highly cited papers (Planck collaboration) is a pre-print. It does not differ in any material way from the final published article, which followed several years later ( a special journal ed).

(nb. citations from the preprint don't count)



The Hidden Professor @thehiddenprof · 1h

Sent 14 2021

rdian.com/education/2021...

Twitter

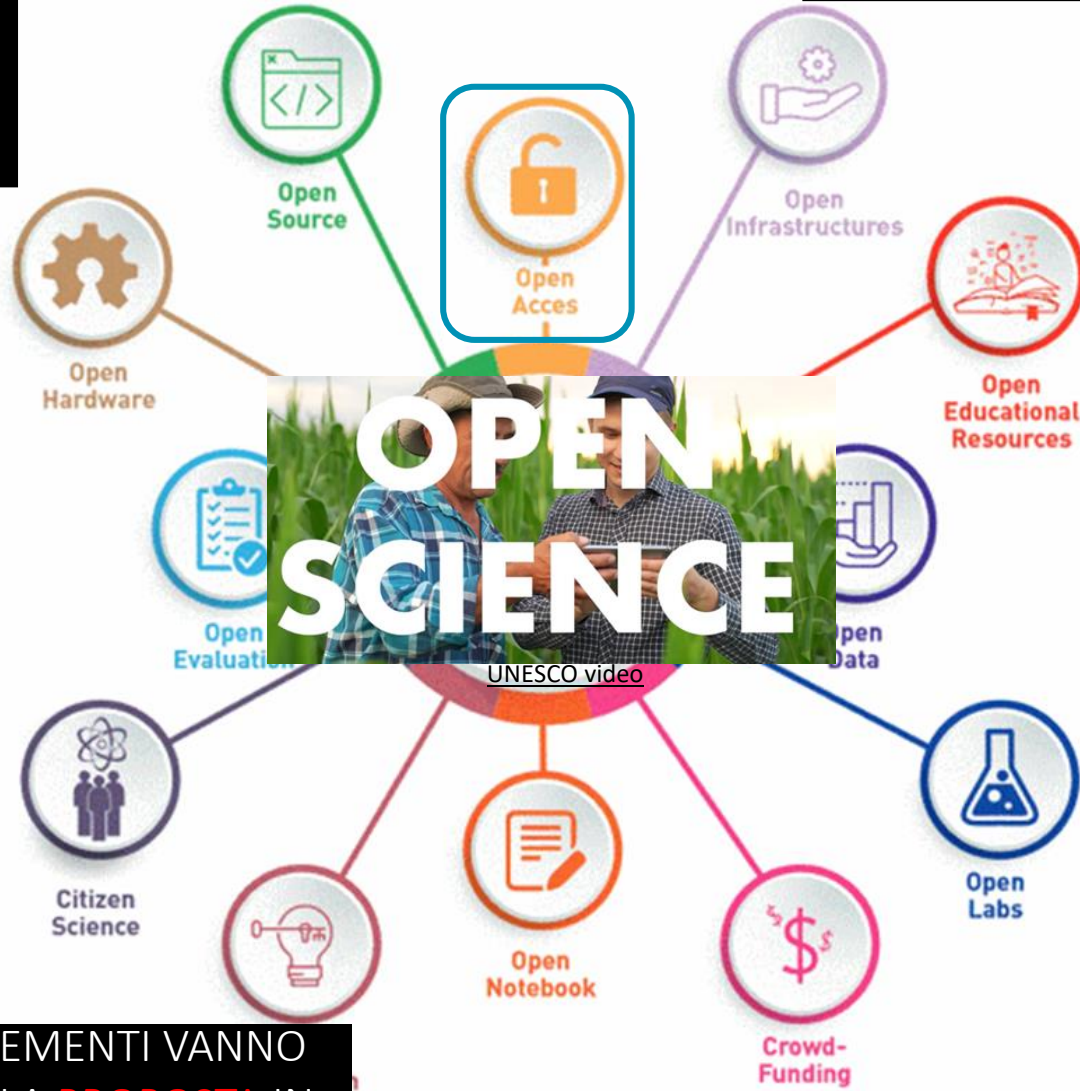
PREPRINT NON ACCETTATI PER  
GRANT PROPOSALS.  
PROTESTE PERCHÉ ORMAI SONO DI  
USO COMUNE E SONO LA RICERCA  
PIÙ AGGIORNATA  
ORA SONO ACCETTATI



# ...Open Science

FOCUS SULL'INTERO PROCESSO,  
NON SOLO SULLA SINTESI FINALE  
(ARTICOLO)

OPEN  
SCIENCE ≠ OPEN  
ACCESS



TUTTI QUESTI ELEMENTI VANNO  
DETTAGLIATI NELLA **PROPOSTA** IN  
HORIZON EUROPE

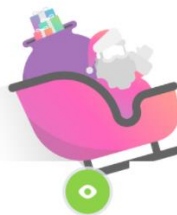
...Houston, abbiamo un problema

## CALENDARIO DELL'AVVENTO OPEN SCIENCE

1 dicembre



2 dicembre



3 dicembre



4 dicembre



5 dicembre



6 dicembre



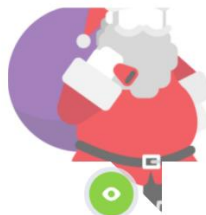
7 dicembre



8 dicembre



9 dicembre



10 dicembre



11 dicembre



12 dicembre



genially 2021

LA PERCEZIONE IN ITALIA:

- OPEN SCIENCE = OPEN ACCESS
- SOLO RIVISTE
- SI PAGA SEMPRE PER PUBBLICARE
- EDITORI PREDATORI



# New entry (o della disinformazione)



GRACE BROWNE

SCIENCE 22.04.2022 12:00 PM

2022 April 24

## Making Science More Open Is Good for Research—but Bad for Security

The open science movement pushes for making scientific knowledge quickly accessible to all. But a new paper warns that speed can come at a cost.

are less meticulous. In particular, the field of synthetic biology—which involves the engineering of new organisms or the reengineering of existing organisms to have new abilities—faces what is called a dual-use dilemma: that while quickly released research may be used for the good of society, it could also be co-opted by bad actors to conduct biowarfare or bioterrorism.

# Ope

Embrace open and reproducible research to the extent you want and you can. Seek allies and support around you, but do not feel pressured. It isn't open or closed. It is certainly not the same open or close for everybody.

So my very first take-home messages are:

- Open and reproducible aren't binary, they are gradients, multidisciplinary and multidimensional.
- How to be an open scientist and implement RR:
- Let's be open and understanding of different situations and constraints, including our own.

- OPEN NON È BINARIO MA GRADIENTE E MULTIDIMENSIONE
- OPEN NON È «GOOD BY DEFAULT»

Open != reproducible

Open != good (by default)

Reproducible != good (by default)

Open research and reproducible research aren't the same thing, and one doesn't imply the other. Even though in our modern understanding of these terms and concepts, they are intimately linked, historically, they are very different. And research being open or reproducible doesn't make it good (whatever the definition of good).

## HOW TO MANAGE DATA: DATA STEWARDSHIP AND FAIR SKILLS

Marta Teperek  
October 26, 2021

0 Comments



MA...SIA «OPEN» SIA «RIPRODUCIBILE» SI  
FONDANO SU UNA CORRETTA GESTIONE  
DEI DATI E SULLA TRASPARENZA PER  
GENERARE FIDUCIA E PERMETTERE  
VALIDAZIONI

00

## HOW TO MANAGE DATA: DATA STEWARDSHIP AND FAIR SKILLS

Marta Teperek  
October 26, 2021

0 Comments

But open and reproducible research are **supported by good data management** (the topic of this talk/post) and lead to **trust, verification and guarantees**:

- Trust in Reporting – result is accurately reported
- Trust in Implementation – analysis code successfully implements chosen methods
- Statistical Trust – data and methods are (still) appropriate
- Scientific Trust – result convincingly supports claim(s) about underlying systems or truths

which are a hallmark of good research.

### Open Science Saves Lives: Lessons from the COVID-19 Pandemic

2021


Lonni Besançon, Nathan Peiffer-Smadja, Corentin Segalas, Haiting Jiang, Paola Masuzzo,  
Cooper Smout, Eric Billy, Maxime Deforet, Clémence Leyral

doi: <https://doi.org/10.1101/2020.08.13.249847>

This article is a preprint and has not been certified by peer review [what does t

ANCHE «OPEN SCIENCE» DEVE  
ESSERE FATTA IN MODO  
CORRETTO!!!

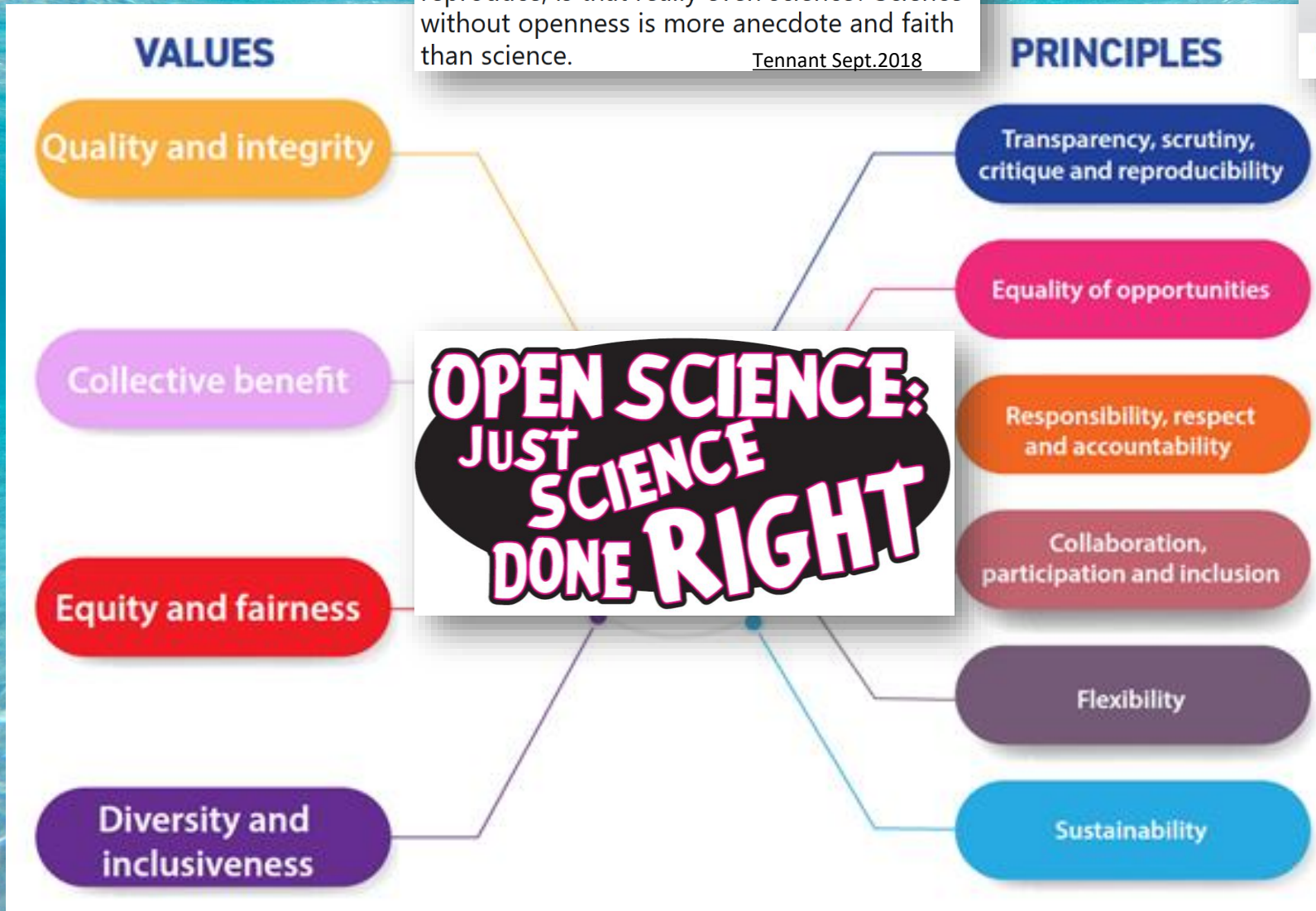
# ...Open Sc

 **Jon Tennant** ✓  
@Protohedgehog

Following

What is the difference between open science and good science? If research papers are inaccessible, with no code or data, cherry picked results, inability to even attempt to reproduce, is that really even science? Science without openness is more anecdote and faith than science.

Tennant Sept.2018





# Closed/bad science



## From Jon's Slideshow

Academic: *"This research paper has been published and therefore is scientifically valid."*

Non-academic: *"But it's paywalled. I can't access it. How do I know it's valid?"*

Academic: *"Because it has been peer reviewed."*

Non-academic: *"Can you show me the peer reviews?"*

Academic: *"No. But it was done by two experts in the field."*

Non-academic: *"Which experts?"*

Academic: *"We don't know. But it's in a top journal."*

Non-academic: *"Why is it in a top journal?"*

Academic: *"Because it has a high impact factor, so is highly cited."*

Non-academic: *"Why does that make the research better?"*

Academic: *"Trust me. I'm a scientist."*



Message



D@sapta Erwin Irawan

@dasaptaerwin



I remember he told this dialogue when we first met in person in Bali, April 2018. :).  
[@BreznauNate](#) And then I flashed my t-shirt showing a quote "Impact Factor is a Myth"

[Traduci il Tweet](#)



Nate Breznau @BreznauNate · 4 gen

1/6 "Open science is just good science". So said Jon Tennant; and I've transcribed, edited and appended one of his talks to deliver this message with maximum impact.

[crowdid.hypotheses.org/548](https://crowdid.hypotheses.org/548)

[@hypothesesorg](#)

[Mostra questa discussione](#)

Jan 11 2022

9:34 AM · 11 gen 2022 · Twitter Web App



## Members of the Open Science community react to the UNESCO Recommendation

We asked 11 leading experts and advocates of the Open Science and Open Access movement to share their views on the significance of the UNESCO Recommendation on Open Science adopted in late 2021. Here are their responses and their own recommendations for how to achieve the objectives set by UNESCO.



Barend Mons

STIAMO  
METTENDO VINO  
NUOVO IN OTRI  
VECCHIE (IL  
SISTEMA DELLE  
RIVISTE)

Jan. 2022

...MA...

NON È PREMETTENDO  
«OPEN» CHE  
RISOLVIAMO...

LA COLPA  
È  
NOSTRA!

recommendations. But, so far, most continue to put this still-fermenting new wine into the old wineskins of their current reward systems and publishing requirements. Ultimately, the escape from the 17th-century scholarly communication prison is *not* about blaming the publishers, but about facing our own, dried-out, elitist, and anachronistic ivory-tower scholarly communication practice (from which the publishers live lavishly).

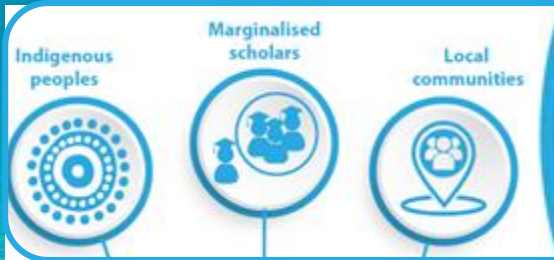
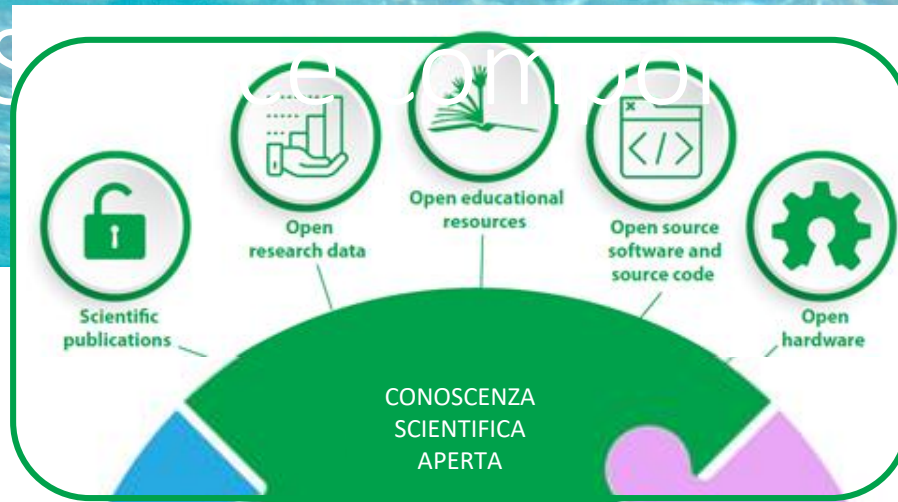
primarily communicated via human-readable narrative. However, we must realise that the evidence on which we base our knowledge should be centered on data and relevant, reproducible, observations and patterns that lead to precise claims[2], rather than on storytelling. Narrative is necessary but is *supplementary* to data and actual claims.

fortunate people of their playful youth and natural resources so that we in the Global North can have our electric cars and cleaner cities? Why would science be different? The (almost) universally agreed-upon (among intellectuals) new wine, *although wonderful and tasty*, goes quickly into the old wineskins of the current, journal-based scholarly communication and reward system, which *will resist until it finally bursts*. Many





# ...Open Science



NON SOLO CONOSCENZA SCIENTIFICA:  
- INCLUSIONE  
- COINVOLGIMENTO



**It's time to talk explicitly about inclusiveness**

We have talked enough about diversity in an **implicit** way but we have not focused on it in an **explicit** way and we may therefore have missed the real point: **equity, diversity and inclusiveness are non-negotiable** and they must be built into the foundation of what we do.



**Stephen Curry**

64.823 Tweet

Sept. 19, 2019

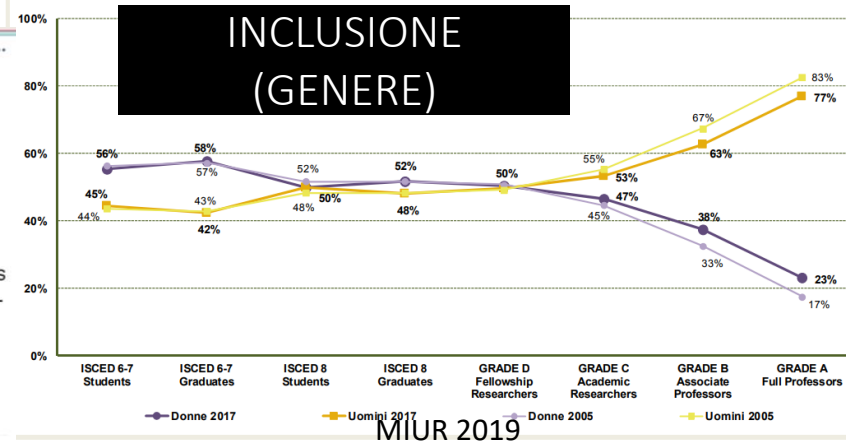
Following

**LERU** @LERUnews · 19 set

Important message to bring to university leadership is that we miss out on talent by not making equality and diversity a priority. Mixed teams work better. Addressing diversity issues is a win-win-win situation for students, staff and institutions, says @Stephen\_Curry



Grafico 1: Proporzione di donne e uomini in una tipica carriera accademica: studenti e personale docente e ricercatore - Anni 2005 e 2017



SEARCH IN TITLE (MAHAKAM) Feb. 13 2022

SCOPUS= 170 DOCS

EARTH

CROSSREF= 7000+ DOCS

LENS= 1100+ DOCS

SATURN

SUPER PLANET TOI-849B

#DASAPTAERWIN CCO

**D@sapta Erwin Irawan** @dasaptaerwin

I searched for in title (mahakam) then I came up with this visualization. Scopus gets 170 docs (earth), @TheLensOrg gets 10x more docs (saturn), @CrossrefOrg gets 40x times more docs (super planet TOI-849b). #scicomm #sciart with @canva.

Traduci il Tweet

8:43 AM · 13 feb 2022 · Twitter for iPad

2 Retweet 2 Tweet di citazione

**Research must be communicated in multiple languages**



Access to research and greater interaction between science and society can only be possible if research is communicated in multiple languages, including those actually used in speech and writing locally.

**In the ongoing reform of the research assessment system, the call for multilingualism is the most notable omission.**

**INCLUSIONE SIGNIFICA ANCHE MULTILINGUISMO**

Comite pour la science ouv... @ouvriarscience

#OSEC2022 #PFUE2022  
Le multilinguisme, un oublié de la réforme de l'évaluation, Emanuel KULCZYCKI (Adam Mickiewicz University in Poznań) - @ekulczycki - @ScholarlyCommRG

Traduci il Tweet

10:26 AM · 5 feb 2022 · TweetDeck

2 Retweet 1 Mi piace

Twitta la tua Rispondi

@JFSmith434

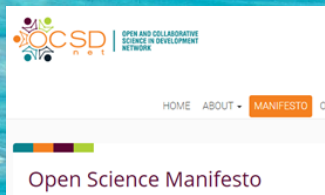
"If we are not careful, we will have an open science that perpetuates the inequalities in academia and science." @mendulla #osfair2017



46.24 Inclusive Open Science, 7 Sept. 2017



# Open [collaborative] Science – inclusione

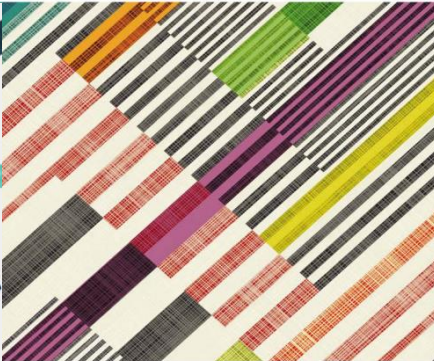


**Contextualizing Openness**  
Situating Open Science



Beyond Diversity and Inclusion:  
Challenging Structural Racism and Systemic Biases in Academic Knowledge Production

Leslie Chan  
Global Development Studies  
Knowledge Equity Lab  
University of Toronto Scarborough  
@lesliekwchan @knowequitylab



Edited by Leslie Chan  
Angela Okune, Rebecca Hillyer, Denisse Albornoz, and Alejandro Posada  
University of Ottawa Press

## Main points

Contemporary inequity in knowledge production has deep historical roots – tracing back to colonialism and the spread of imperial science

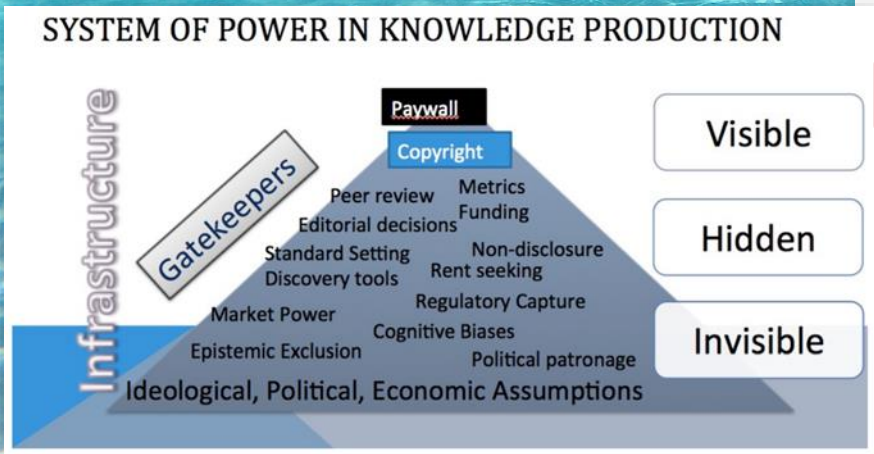
Addressing compositional diversity doesn't address the underlying problems of structural racism and systemic biases rooted in whiteness

Structural racism is about the maintenance and reproduction of power

Uncritical acceptance of "openness" risks reproducing and amplifying existing inequities

Design principles based on epistemic justice and knowledge equity are possible – Centering Human Relations and Solidarity

ACCETTAZIONE ACRITICA DI «OPENNESS»  
RISCHIA DI RIPRODURRE E AMPLIFICARE LE  
DISEGUAGLIANZE

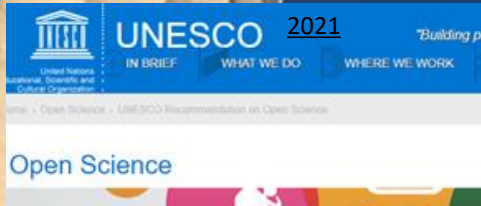
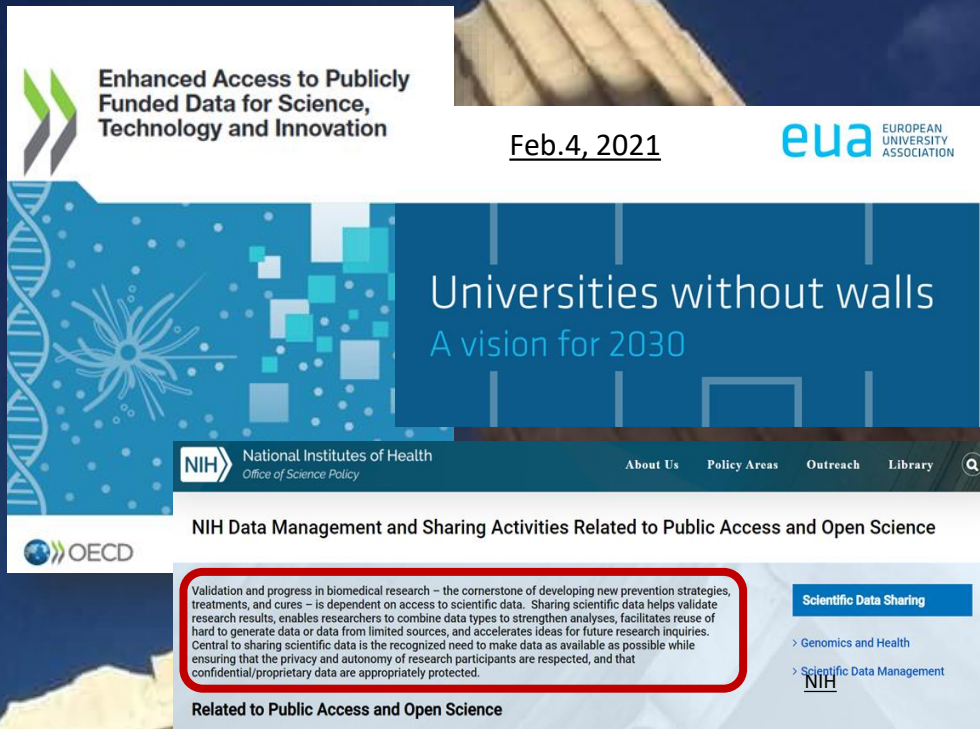






# SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

Enhanced Access to Publicly Funded Data for Science, Technology and Innovation

Feb.4, 2021

eua EUROPEAN UNIVERSITY ASSOCIATION

## Universities without walls

A vision for 2030

NIH National Institutes of Health  
Office of Science Policy

About Us Policy Areas Outreach Library

### NIH Data Management and Sharing Activities Related to Public Access and Open Science

Validation and progress in biomedical research – the cornerstone of developing new prevention strategies, treatments, and cures – is dependent on access to scientific data. Sharing scientific data helps validate research results, enables researchers to combine data types to strengthen analyses, facilitates reuse of hard to generate data or data from limited sources, and accelerates ideas for future research inquiries. Central to sharing scientific data is the recognized need to make data as available as possible while ensuring that the privacy and autonomy of research participants are respected, and that confidential/proprietary data are appropriately protected.

Scientific Data Sharing

- Genomics and Health
- Scientific Data Management

Related to Public Access and Open Science

Acknowledging that Open Science should not only foster enhanced sharing of scientific knowledge solely among scientific communities but also promote inclusion of scholarly knowledge from traditionally underrepresented or excluded groups (such as women, minorities, Indigenous scholars, scholars from less advantaged countries and low-resource languages) and contribute to reducing inequalities in access to scientific development, infrastructures and capabilities among different countries and regions, ¶



Business-as-usual approaches to science and science funding are incommensurate with the timeline for achieving the SDGs or that of addressing our current planetary crises in a humane, dignified and equitable manner. A major qualitative and quantitative step-change is needed in science to support critical societal transformations towards a more sustainable, equitable and resilient future.

Oct. 27, 2020

## Joint Appeal for Open Science UNESCO, WHO, HCHR, CERN

NASA SCIENCE SHARE THE SCIENCE

Science Topics News For Researchers Learners Get Involved Citizen Science About Us Español

## For Researchers

Overview FAQ Solicitations ROSES Blog NAC Science Committee NASA Postdoc Program Team PI Resources More

OPEN-SOURCE SCIENCE INITIATIVE

Overview Why Do Open Science? Transform to Open Science (TOPS)

### Transform to Open Science (TOPS)

From 2022 to 2027, TOPS will accelerate the engagement of the scientific community in open science practices through events and activities aimed at:

- Lowering barriers to entry for historically excluded communities
- Better understanding how people use NASA data and code to take advantage of open science



# Open Science

WEBINAR 19 OTTOBRE 2020



«PRODOTTO DELLA RICERCA»: NON SOLO LA SINTESI FINALE (ARTICOLO) MA TUTTO IL PROCESSO

RIDEFINIRE «ECCELLENZA»: NUOVI VALORI SONO INCLUSIONE, DIVERSITÀ

recognize that formal papers and manuscripts are not the only units of scientific knowledge



redefine research excellence towards values: leadership, diversity work, mental health support



RIPORTARE LA SCIENZA AL CENTRO DELLA SOCIETÀ

invest in tools, services, and community-driven initiatives to help make science better by engaging more people to participate in the process



tell it like it is: redefine failure, nurture slower, responsible science, shift the focus from the outputs to the practice



INVESTIRE IN STRUMENTI PARTECIPATIVI. LA COMUNICAZIONE DEVE TORNARE NELLE MANI DELLA COMUNITÀ



@pcmasuzzo  
Oct.5, 2020

RACCONTATELA COM'È: SI FALLISCE. PUBBLICARE I RISULTATI NEGATIVI. FOCUS DAL PRODOTTO AL PROCESSO [INTEGRITÀ DELLA RICERCA]



# Open Science in sintesi...

*It was really helpful to have in mind there is an alternative way [Open Science] that gives us the chance of being treated with dignity and truly focus on the essence of our work*

*[Petra, PhD, May 2020]*



# ...è ora di Open Science



## Open Scientist Handbook

Bruce R. Caron

2020

## Open Science MOOC

Welcome! What is Open Science?

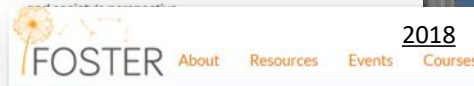
What is European Open Science Cloud (EOSC)? Research data management

Completion Credits

In this module you will learn about the Open Science movement and its principles. We will also look at the practical advantages of embracing these principles and present some easy steps to join the movement.

By the end of this module, you will be able to:

- Define the concepts of Open Science and Open Access.
- Explain the benefits of Open Science practices from a researcher's perspective.



## Welcome

## The Turing way

The Turing Way is an open source community-driven guide to reproducible, ethical, inclusive and collaborative data science.

Our goal is to provide all the information that data scientists in academia, industry, government and the third sector need at the start of their projects to ensure that they are easy to reproduce and reuse at the end.

The book started as a guide for reproducibility, covering version control, testing, and continuous integration. However, technical skills are just one aspect of making

In February 2020, *The Turing Way* expands on communication, collaboration, and ethical

## OUVRIR

## LA SCIENCE

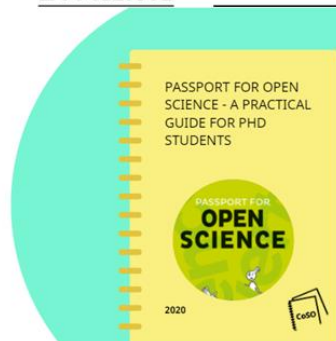
OPEN SCIENCE COMMITTEE WORKING GROUPS BLOG SCHEDULE RESOURCES

2021

FR · EN

### GUIDES

The Passport For Open Science is a guide designed to accompany PhD students at every step of their research career, whatever their disciplinary field. It provides a set of tools and good practices that can be directly implemented.



<https://osf.io/yxesw/>

OSF

«OPEN SCIENCE  
IN PRATICA»

Ricordati di Vivere



The Turing Way

Q Search this book...

- Welcome
- Guide for Reproducible Research
- Guide for Project Design
- Guide for Communication
- Guide for Collaboration
- Guide for Ethical Research
- Community Handbook
- Itinerary

Visit our GitHub Repository  
This book is powered by Jupyter Book



# Help

**OPEN-SCIENCE.IT**  
La scienza condivisa

HOME NAVIGA IL SITO EVENTI

<https://open-science.it/>

## Dati della ricerca e aspetti legali

VAI ALL'ARTICOLO NAVIGA

2022

**APRE**  
Agenzia per la Promozione della Ricerca Scientifica

### "S-LÉGAMI!"

OPEN ACCESS - MANUALE D'USO PER RICERCATORI

Seconda edizione  
aggiornata e ampliata con circa  
100 domande sull'Open Science

OA-Italia – Lista di discussione su temi relativi all'accesso aperto

### Lista OA Italia

Dettagli su OA-Italia

Scopo di questa lista e' quello di condividere e scambiare opinioni, informazioni, iniziative relative all'accesso aperto (Open Access/OA) lista e' aperta, ed indicizzata dai principali motori di ricerca e il suo archivio e' liberamente consultabile. L'iscrizione viene verificata dal

This list covers OA issues. The language of the list is Italian. It is open to anybody interested in this topic. The list Archive is freely acces

Per consultare la raccolta dei messaggi precedentemente inviati alla lista, visita gli [Archivi della lista OA-Italia](#).

**Uso di OA-Italia**

Per inviare un messaggio a tutti gli iscritti della lista, scrivi all'indirizzo [oa-italia@openarchives.it](mailto:oa-italia@openarchives.it).

Puoi iscriverti alla lista, o cambiare la tua iscrizione corrente, nella sezione sottostante.

**Iscrizione a OA-Italia**

Iscriviti a OA-Italia completando il seguente modulo. Questa è una lista chiusa, quindi la tua iscrizione è stata sospesa in attesa di autoriz tramite email. Questa è anche una lista privata, quindi l'elenco degli iscritti non è disponibile ai non iscritti.

In UniTO Come Cos'è utile Perché è importante Editori e Politiche Open Access (EPOCA) Eventi Corsi e formazione  
Video Open Science <https://www.oa.unito.it/new/>

### Open Science passo dopo passo

Si può fare Open Science, in concreto, ogni giorno, un passo per volta. E non è incompatibile con VQR, ASN...  
Provate uno strumento dall'elenco di link raccolti in Open Science in pratica (richiede login)

**Open Science in pratica**

aggiungendo misure di impatto alternative, es. altmetrics  
comunicando sui social media, es. Twitter  
condividendo poster e presentazioni, es. su FigShare  
utilizzando licenze aperte, es. Creative Commons BY  
depositando in archivi o pubblicando su riviste Open  
provando la open peer review, es. PubPeer o F1000  
condividendo preprints, es. su OSF, arXiv o bioRxiv  
con formati leggibili dalle macchine, es. Jupyter o CoCalc  
con la scrittura collaborativa, es. Overleaf o Authorea  
condividendo protocolli e workflow, es. su Protocols.io  
condividendo note di laboratorio, es. OpenNotebookScience  
condividendo software, es. su GitHub con licenza GNU/MIT  
condividendo i dati, es. su Dryad, Zenodo o Dataverse  
pre-registrando esperimenti, es. su OSF o AsPredicted  
commentando pagine web, es. su Hypothes.is o Pund.it  
usando bibliografie condivise, es. su Zotero  
condividendo progetti di ricerca, es. su RIO Journal

DOI: 10.5281/zenodo.1147025 Traduzione: Elmo Giglio DOI: 10.5281/zenodo.1195648



# Come rendere Open ogni passo della ricerca...



- aggiungendo misure di impatto alternative, es. [altmetrics](#)
- comunicando sui social media, es. [Twitter](#)
- condividendo poster e presentazioni, es. su [FigShare](#)
- utilizzando licenze aperte, es. [Creative Commons BY](#)
- depositando in [archivi](#) o pubblicando su [riviste Open](#)
- provando la open peer review, es. [PubPeer](#) o [F1000](#)
- condividendo preprints, su [OSFpreprint](#), [arXiv](#) o [biorXiv](#)
- con formati leggibili dalle macchine, es. [Jupyter](#) o [CoCalc](#)
- con la scrittura collaborativa, es. [Overleaf](#) o [Authorea](#)
- condividendo protocolli e workflow, es. su [Protocols.io](#)
- condividendo note di laboratorio, es. [OpenLabNotebook](#)
- condividendo software, es. su [GitHub](#) con licenza [GNU/MIT](#)
- condividendo i dati, es. su [Dryad](#), [Zenodo](#) o [Dataverse](#)
- pre-registrando esperimenti, es. [OSFregistry](#) o [AsPredicted](#)
- commentando pagine web, es. su [Hypothes.is](#) o [Pund.it](#)
- usando bibliografie condivise, es. su [Zotero](#)
- condividendo progetti di ricerca, es. su [RIO Journal](#)



[FINO AL 2020] SI PUÒ FARE SEMPRE! **NONOSTANTE** I CRITERI ATTUALI DI VALUTAZIONE. NESSUNO VE LO VIETA! E NON RICHIEDE TANTO TEMPO (ANCHE PERCHÉ, QUANTI ARTICOLI/ANNO??? 10? PER 10 VOLTE SU 365 GIORNI...) DAL 2021: **SI DEVE FARE!!!** SE NO NIENTE FONDI EU



Open

«AS OPEN AS POSSIBLE, AS CLOSED AS NECESSARY»



Carlos Moedas

@Moedas

2/4 "Open as possible, as closed as necessary" is the new principle for all #data from publicly funded #research in Europe #openaccess

RETWEET  
76

MI PIACE  
32



NON ABBIAMO BISOGNO DI  
MARTIRI – BE AS OPEN AS  
YOU CAN – MA SERVE UNA  
RIFORMA

### What key advice would you give to new ERC grantees?

Be as open as you can, publish as openly as you can, submit preprints and open data – but continue publishing in the journals that you think are the best for your career. No one has to become an open science martyr, you can be open without harming your career chances. But at the same time, recognize the deep flaws of the current system of evaluation and rewards and call for a reform – as an ERC grantee your voice carries weight.

“

“Be as open as you can, [but] you don't have to become an open science martyr”

”

**Open science needs no martyrs,  
but we must recognize the need  
for reform**

Oct. 2021

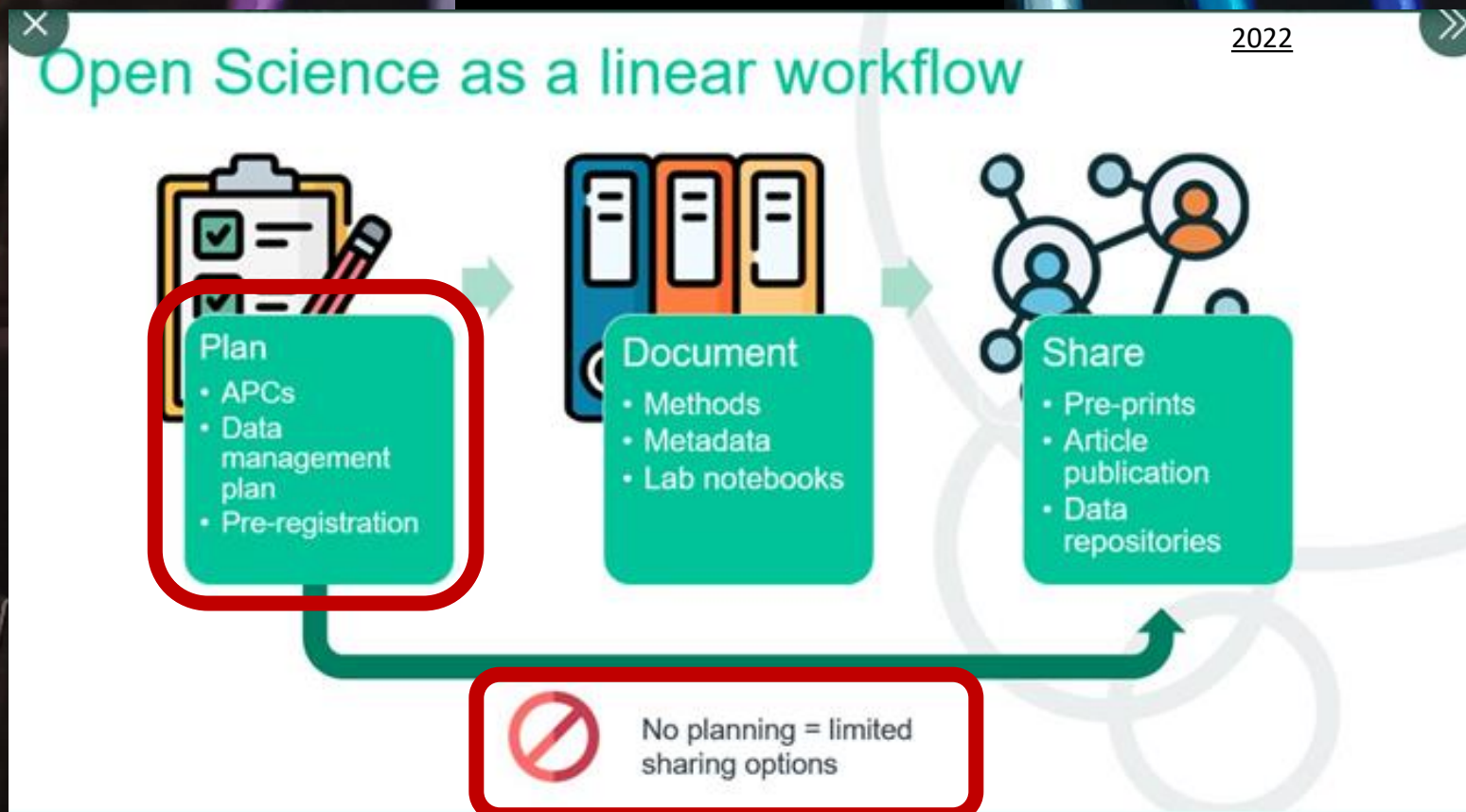
28 October 2021





# [Open Science in pratica]

PER CONDIVIDERE BISOGNA  
PIANIFICARE DALL'INIZIO

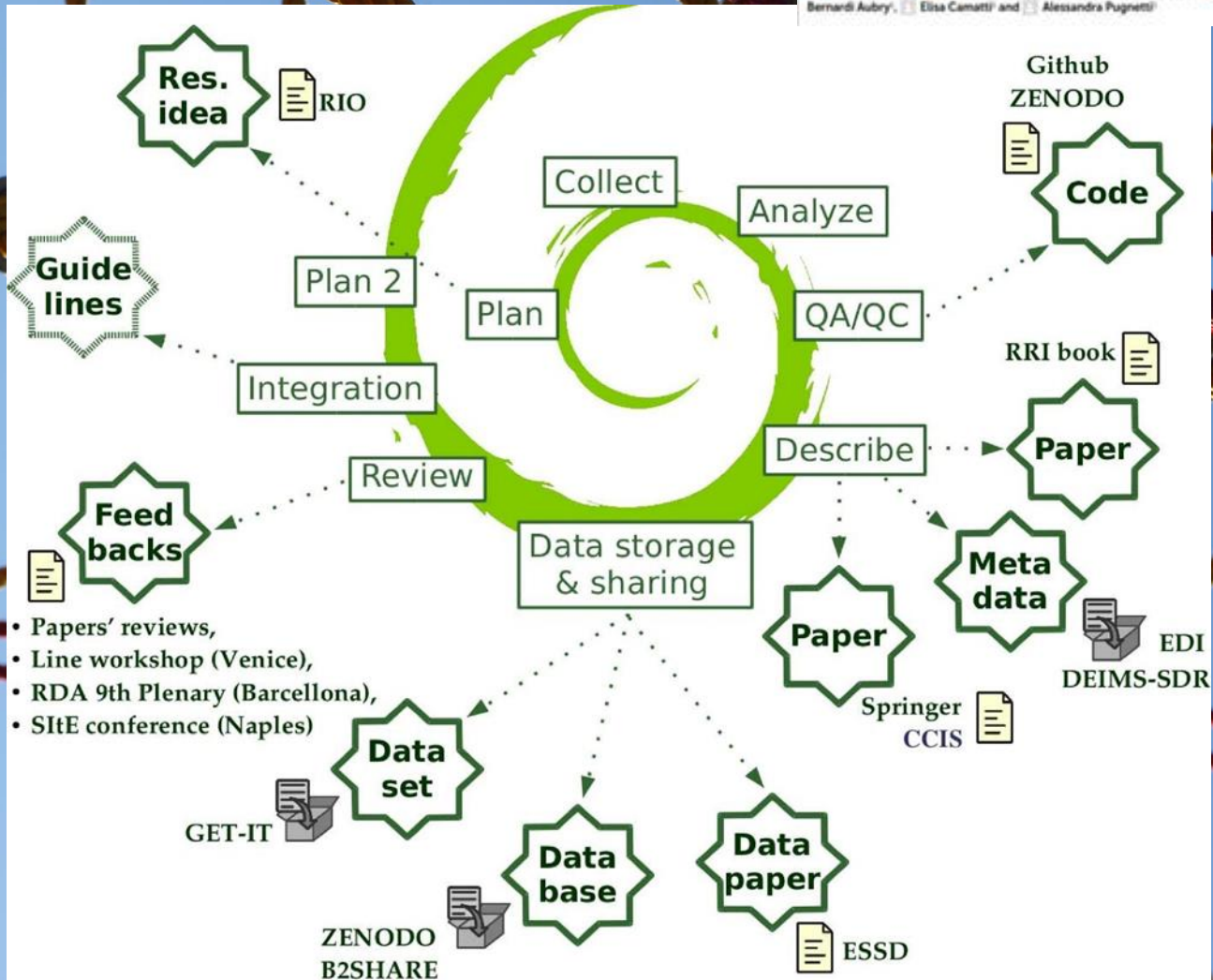




# [Open Science in pratica]

2021  
Opening Marine Long-Term Ecological Science: Lesson Learned From the LTER-Italy Site Northern Adriatic Sea

Annalisa Minelli, Alessandro Sarretta, Alessandro Oggioni, Caterina Bergami, Mauro Bastianini, Fabrizio Bernardi Aubry, Elisa Canatti and Alessandra Pugnetti



# ...un modo nuovo di fare ricerca

## Box 1. Some Research Practices that May Help Increase the Proportion of True Research Findings

- › Large-scale collaborative research
- › Adoption of replication culture
- › Registration (of studies, protocols, analysis codes, datasets, raw data, and results)
- › Sharing (of data, protocols, materials, software, and other tools)
- › Reproducibility practices
- › Containment of conflicted sponsors and authors
- › More appropriate statistical methods
- › Standardization of definitions and analyses
- › More stringent thresholds for claiming discoveries or “successes”
- › Improvement of study design standards
- › Improvements in peer review, reporting, and dissemination of research
- › Better training of scientific workforce in methods and statistical literacy





## Recommendations (summary)

1. Communicate about Open Science and Research Integrity in a positive way, as two fundamental and complementary pathways towards excellent science and greater social impact of research. Indeed Open Science and Research Integrity both ultimately relate to the need to foster responsibility and trust in research and innovation.
2. Commit to reforming the research assessment system to provide the right recognition, incentives and rewards for methodological rigour, for enabling the wider uptake of open science practices, and to move at the same time towards a system that supports integrity and that rewards the plural characteristics of highquality research.
3. Journals and publishing platforms should be transparent about their editorial processes, including peer reviewing, and promote reproducibility of research through support of FAIR data and, whenever possible, by facilitating open access to data, codes and methodologies.
4. Make sure that researchers (at every stage of their career), as well as other involved stakeholders (like university lawyers or funders), receive adequate training on research integrity and Open Science.

# + Open Science]

OPEN SCIENCE + RESEARCH INTEGRITY SONO COMPLEMENTARI PER ASSICURARE UNA RICERCA PIÙ SOLIDA CON UN MAGGIOR IMPATTO SOCIALE. PAROLA CHIAVE: TRASPARENZA.

9. Promote cooperation between Open Science and Research Integrity offices at a national and institutional levels. This is essential to develop training and materials that contribute to supporting researchers in practicing open science and ensure that high standards of research integrity are complied with. It would also help ensuring that fast pace developments in the area of Open Science are taken into account and appropriately reflected in codes of conduct for Research Integrity.
10. Publicize information and enhance visibility about main Open Science and Research Integrity policies/documents/guidelines at a national and institutional level, notably through websites that could be considered as general knowledge hubs in this regard.

Library Element Report

SWG OSI Guideline Report on Research Integrity and Open Science

2021

Uploaded by RRI Tools on January 26, 2022



...essendo riproducibili



The Turing Way

Search this book...

Welcome

- Guide for Reproducible Research
- Guide for Project Design
- Guide for Communication
- Guide for Collaboration
- Guide for Ethical Research
- Community Handbook
- Afterword

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This book is powered by Jupyter Book

## Welcome

### The Turing way

The Turing Way is an open source community-driven guide to reproducible, ethical, inclusive and collaborative data science.

Our goal is to provide all the information that data scientists in academia, industry, government and the third sector need at the start of their projects to ensure that they are easy to reproduce and reuse at the end.

The book started as a guide for reproducibility, covering version control, testing, and continuous integration. However, technical skills are just one aspect of making data science research "open for all".

In February 2020, *The Turing Way* expanded to a series of books covering reproducible research, project design, communication, collaboration, and ethical research.

Open Access | Published: 10 January 2017

2017

## A manifesto for reproducible science

Marcus R. Munafò, Brian A. Nosek, Dorothy V. M. Bishop, Katherine S. Button, Christopher D. Chambers, Nathalie Percie du Sert, Uri Simonsohn, Eric-Jan Wagenmakers, Jennifer J. Ware & John P. A. Ioannidis

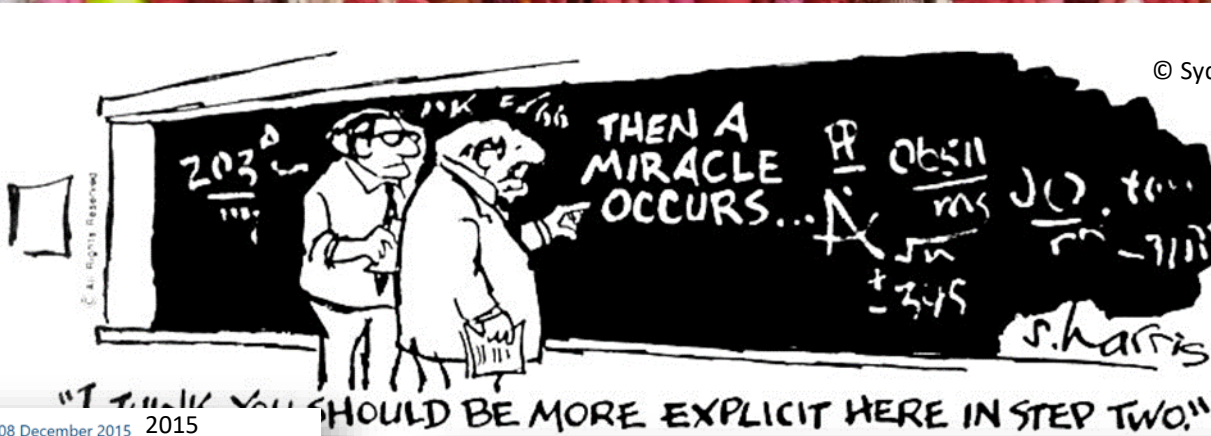


PRATICHE DI  
RIPRODUCIBILITÀ



[selfis

© Sydney Harris 1977



e]

Comment | Open Access | Published: 08 December 2015 | 2015

### Five selfish reasons to work reproducibly

Florian Markowitz

Genome Biology 16, Article number: 274 (2015) | Cite this article

18k Accesses | 38 Citations | 456 Altmetric | Metrics

#### Reason number 1: reproducibility helps to avoid disaster

“How bright promise in cancer testing fell apart” titled a *The New York Times* article published in summer 2011 [1] highlighting the work of Keith Baggerly and Kevin Coombes, two biostatisticians at M.D. Anderson Cancer Center. Baggerly and Coombes had exposed lethal data analysis problems in a series of high-impact papers by breast cancer researchers from Duke University [2].

#### Reason number 2: reproducibility makes it easier to write papers

Transparency in your analysis makes writing papers much easier. For example, in a dynamic document (Box 1) all results automatically update when the data are confident your numbers, figures and tables are up-to-date. Additionally, they are more engaging, more eyes can look over them and it is much easier to write.

#### Reason number 3: reproducibility helps reviewers see it your way

Most of us like to moan about peer review. One of the complaints I hear most often is: the reviewers didn't even read the paper and had no idea what we were really doing.

This starkly contrasts with my experience during the review process of a recent paper [4], for which I made all data, code and analyses available as an Experiment Package and well-documented code easily accessible to the reviewers.

#### Reason number 5: reproducibility helps to build your reputation

For several papers, we have made our data, code and analyses available as an Experiment Package on Bioconductor [5]. When I came up for tenure, I cited all of these packages as research output of my lab. Generally, making your analyses available in this way will help you build your reputation.

...and well-documented code easily accessible to the reviewers. ...a slight change to some analyses, and because he had access to ...directly try out his ideas on our data and see how the results ...pletely on board, the only thing left to discuss was the best ...y how a constructive review should be. And it would have been ...nt and reproducible presentation of our analyses.

#### Reason number 4: reproducibility enables continuity of your work

I would be surprised if you hadn't heard the following remarks before, maybe you have even said them yourself: "I am so busy, I can't remember all the details of all my projects" or "I did this analysis 6 months ago. Of course I can't remember all the details after such a long time"



# [selfish

© Sydney Harris 1977

Comment | [Open Access](#) | [Published: 08 December 2015](#)

2015

## Five selfish reasons to work reproducibly

[Florian Markowetz](#)

[Genome Biology](#) 16, Article number: 274 (2015) | [Cite this article](#)

18k Accesses | 38 Citations | 456 Altmetric | [Metrics](#)



"I THINK YOU SHOULD BE MORE EXPLICIT HERE IN STEP TWO."

### What's holding you back?

Have I convinced you? Maybe not. Here is a collection of responses I sometimes get to my insistence on reproducible research (as well as my answers to them):

*"It's only the result that matters!"* You are wrong.

*"I'd rather do real science than tidy up my data".* If you don't work reproducibly, you are not doing science at all [7].

SE NON SIETE  
RIPRODUCIBILI,  
NON STATE  
FACENDO  
SCIENZA



### SEMINARS ON OPEN SCIENCE

A remote educational course open to everyone, focused on Master and PhD Students covering open science topics and practices.

### SAVE THE DATE

The first "ReproCoffee" will be held on June 15th, 3:30 pm (CEST), the event will be online, and "A manifesto for reproducible science" by [Munafò et al., 2017](#) will be discussed.



### ITRN OPEN RESEARCH SURVEY

We ask you for a few minutes of your time to answer some questions about the use of Open Research practices in your research. This is the link to participate: [RN survey](#).

Your responses will provide a provisional benchmark of where we are, and data will be used to shape future ITRN initiatives around Open Research. Thank you for your valuable contribution!

*ty I want!"* Yes, please do! There are whatever suits you best.

*hon or whatever".* The tool you needed, but as soon as you do data go. Imagine you have to do a simple times) and compare doing it by hand do it for you. Now imagine having to changed. R and Python are clearly the

ITALIAN  
REPRODUCIBILITY  
NETWORK



# OS-CAM, the Career Assessment Matrix

## MATRICI

	R1	R2	R3
Research output	+	++	+++
Research Process	+	+++	++++

- DIVERSIFICAZIONE CARRIERE
- RISPETTA INDIVIDUI E LAVORO DI TEAM
- ENFASI SULLA QUALITÀ
- INCORAGGIA OPEN SCIENCE

Room for everyone's talent  
Towards a new balance in the recognition and rewards of academics

RICCHEZZA DI ESEMPI...FUORI ITALIA CI SI MUOVE

nature

June 2021 Journal information Publish with us Subscribe

IL OLANDA LE UNIVERSITÀ HANNO ABBANDONATO IMPACT FACTOR

Impact factor abandoned by Dutch university in hiring and promotion decisions

ERC HA ABBANDONATO IMPACT FACTOR

Faculty and staff members at Utrecht University are encouraged to practice open science.

START WITH WHAT YOU VALUE

Context considerations

Options for evaluating

Probe deeply

Value

- Not with what others' value (external drivers)
- Not with available data sources (the 'Streetlight Effect')

CONTEXT considerations

- WHO are you evaluating? (Entity size)
- WHY are you evaluating?
- Do you need to evaluate at all?

OPTIONS for evaluation

- Consider both
- Be careful with
- Evaluate with

PROBE deeply

- WHO might your evaluation approach discriminate against?
- HOW might your evaluation approach be gamed?
- WHAT might the unintended consequences be?
- Does the cost outweigh the benefit?

A «COSA» SI DÀ VALORE E SI VALUTA

## Reimagining academic assessment stories of innovation and change

Case studies of universities and national consortia highlight key elements of institutional change to improve academic career as

Tampere University  
FINLAND

University College London  
UNITED KINGDOM

University of Jiaotong  
CHINA

Ghent University  
BELGIUM

University of Oslo  
NORWAY

The number of peer reviewed publications and preprints that can be listed is limited to ten (five for Starting Grant applicants). While it is expected that the publications have a significant reach, applicants are explicitly asked not to include the Journal Impact Factor.

July 2021

TRIPLE: Team Spirit as the default approach to working in academia  
2021



FAIRER ACADEMIC ASSESSMENTS

Recognise and value diversity and disciplinary differences of academic work

- Outputs
- Missions
- Impact

Diversity needs to be represented in information supporting assessment

Diversity of outputs, activities and missions need to be included among assessment criteria

RICONOSCERE E VALUTARE LA DIVERSITÀ

EXAMPLE RESEARCH DATA

Identify practices (e.g.):

- Sharing research data
- Creating FAIR data
- Using open data
- FAIR expertise

Develop infrastructures for:

- Publishing and sharing research data
- Integrating metadata and indicators for research data practices

Reward researchers for (e.g.):

- Sharing datasets
- FAIR datasets
- Data citations
- Data stewardship



BOZZA  
13  
MAGGIO

24 May 2022 | News

Draft copy of the agreement seen by Science | Business sets out plan to end of a narrow set of journal and publication metrics

By Florin Zubaşcu



Eloy Rodrigues

25 maggio alle ore 18:24 · 🌐

I've seen this May 13th draft and overall it looks a good document. I look forward to see the final version of the text, and especially to see its practical implementation by universities and research funders.

NEWS | 18 January 2022 | Brussels, Belgium | Research and Innovation

## Process towards an agreement on reforming research assessment

### EC process

The Commission has called for organisations to express their interest in being part of a coalition on reforming research assessment.

The coalition will bring together research funding organisations, research performing organisations, national/regional assessment authorities or agencies, associations of research funders, of research performers, of researchers, as well as, learned societies and other relevant organisations, all willing and committed to implement reforms to the current research assessment system.

WORKSHOP: INITIATING THE PROCESS OF RESEARCH ASSESSMENT

Proposed commitments

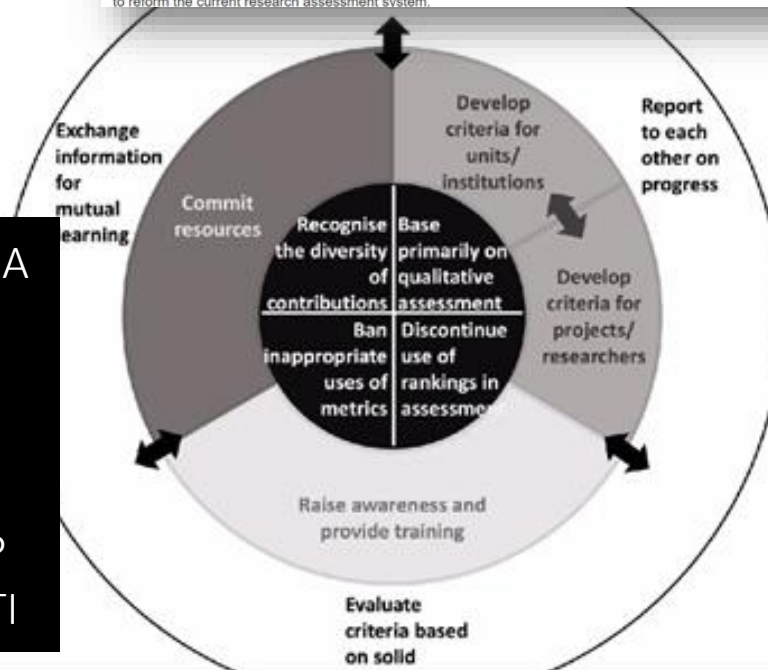
## Call for interest - Towards an agreement on reforming research assessment

Fields marked with \* are mandatory.

### Call for interest

#### Introduction

This call aims at gathering expressions of interest to become part of a coalition of organisations on reforming research assessment, and to be involved in the process of drafting an agreement. The coalition will bring together organisations funding research, research performing organisations, national/regional assessment authorities or agencies, as well as associations of the above organisations and learned societies, all willing and committed to reform the current research assessment system.



INIZIATIVA DELLA COMMISSIONE EUROPEA  
TOWARDS A REFORM OF RESEARCH  
ASSESSMENT VA VELOCE (E ANVUR HA  
FIRMATO ESPRESSIONE INTERESSE!)  
- SETT. 2022 FIRMA DELL'ACCORDO  
- ENTRO 2023 PUBBLICARE ROADMAP  
- ENTRO 5 ANNI MOSTRARE GLI EFFETTI

... [nuovi giocatori: MUR] [???



Ministero dell'Università e della Ricerca  
PNR 2021-2027

Home Ministero Aree tematiche Atti e normativa Siti di interesse

Home | Aree tematiche | Ricerca | Programmazione | Programma nazionale per la ricerca

Programma nazionale per la ricerca

PIANO NAZIONALE OPEN  
SCIENCE

[COMING SOON 😊]

4 ASSI:

1. OPEN ACCESS AI TESTI
2. DATI FAIR
3. VALUTAZIONE
4. COMMUNITY ENGAGEMENT

«COORDINAMENTO/STRATEGIA» - STAND BY – ORA???

PIANO NAZIONALE OPEN SCIENCE REDATTO NEL 2019  
COMMISSIONE OPEN SCIENCE (CRUI, ANVUR, CUN, AIB, AIE, AISA, IOSSG, ICDI)



# ...aprendo l'intero ciclo



Open Research Leeds  
@OpenResLeeds

.@MarcusMunafo on preregistration vs established (post hoc) peer review:

"If we are going to fly an aeroplane, we do our pre-flight checks before we take off, not when we are about to land" #ukrnLeeds #OpenResearch



Dec. 14 2021



OSF REGISTRIES

The open registries network

Search registrations...

<https://osf.io/registries/>

Search

256,423 searchable registrations as of May 13, 2018



redicted pre-registration

CREATE

sPredicteds (e.g. approve, make public)

Your email address (used in AsPredicted)

#### How does it work?

- One author briefly answers 9 questions.
- All participating authors receive an email asking for approval.
- If everyone approves, it is saved and stays private until an author acts to make it public, or it remains private forever. ([Why?](#))
- Authors may share anonymous .pdf with reviewers.
- If made public, a single-page .pdf is generated. That document can be used as a supplement. ([See sample](#))
- The .pdf contains a unique URL that allows for one-click verification. That URL can be included in the paper.
- The .pdf is automatically stored in the web-archive. ([See sample](#))
- There are no accounts, users, or passwords.

#### What if

- You can just say so in
- "Contrary to exp
  - "Unexpectedly, v
  - "In addition to th
  - "We encounter
- Standard Opera

PREREGISTRAZIONE  
OSF Registries o AsPredicted

- PRIORITÀ
- DIFFICILE FALSIFICARE
- RISULTATI NEGATIVI

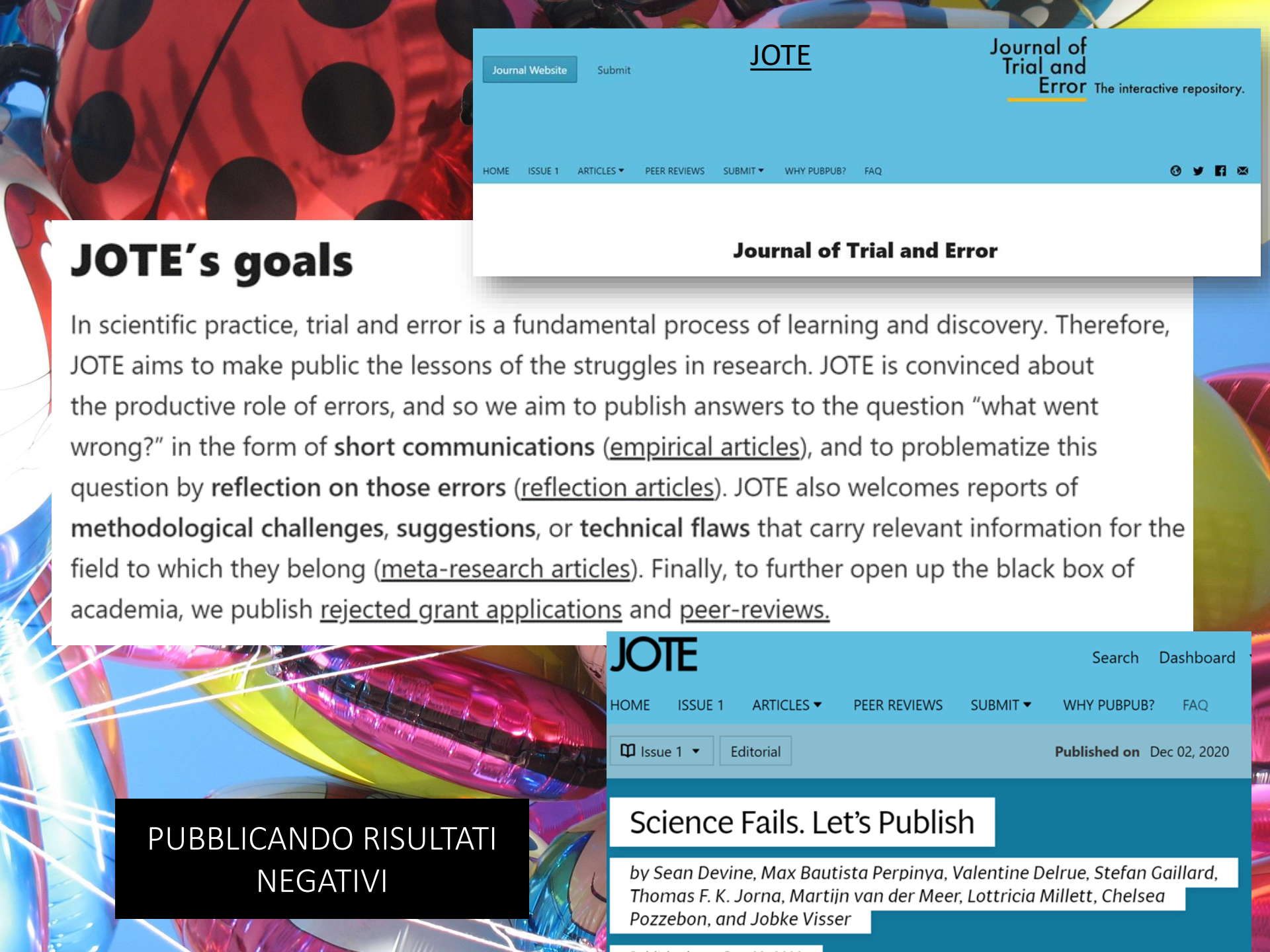
#### #Preregistration: A Plan, Not a Prison

Traduci il Tweet



Preregistration: A Plan, Not a Prison

Despite its benefits, preregistration can oftentimes seem daunting and binding.



Journal Website Submit

**JOTE** Journal of Trial and Error The interactive repository.

HOME ISSUE 1 ARTICLES ▾ PEER REVIEWS SUBMIT ▾ WHY PUBPUB? FAQ

**Journal of Trial and Error**

## JOTE's goals

In scientific practice, trial and error is a fundamental process of learning and discovery. Therefore, JOTE aims to make public the lessons of the struggles in research. JOTE is convinced about the productive role of errors, and so we aim to publish answers to the question "what went wrong?" in the form of short communications (empirical articles), and to problematize this question by reflection on those errors (reflection articles). JOTE also welcomes reports of methodological challenges, suggestions, or technical flaws that carry relevant information for the field to which they belong (meta-research articles). Finally, to further open up the black box of academia, we publish rejected grant applications and peer-reviews.

**JOTE** Search Dashboard

HOME ISSUE 1 ARTICLES ▾ PEER REVIEWS SUBMIT ▾ WHY PUBPUB? FAQ

Issue 1 ▾ Editorial Published on Dec 02, 2020

## Science Fails. Let's Publish

by Sean Devine, Max Bautista Perpinya, Valentine Delrue, Stefan Gaillard, Thomas F. K. Jorna, Martijn van der Meer, Lottricia Millett, Chelsea Pozzebon, and Jobke Visser

PUBBLICANDO RISULTATI  
NEGATIVI



# ...con Open Access ai testi

OPEN ACCESS NON È SOLO «PUBBLICARE» MA  
ANCHE «DEPOSITARE» DOPO AVER  
PUBBLICATO SULLA RIVISTA PIÙ PRESTIGIOSA  
**NON È INCOMPATIBILE CON LA CARRIERA**

PENGUIN  
BOOKS

IF THE PHONE  
DON'T RING  
IT'S ME

6<sup>d</sup>  
net



6<sup>d</sup>  
net

PENGUIN  
BOOKS

WHAT'S ALL THE  
HUBBUB BUB?  
HARLAND MILLER



PENGUIN BOOKS  
TOO  
COOL  
TO  
DIE

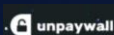
HARLAND  
MILLER

DEPOSITO

PUBBLICAZIONE

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POSSIBILI SOLO SE IN PARTENZA GLI  
AUTORI HANNO DEPOSITATO



<https://openknowledgemaps.org/>

Map a research topic

Get an overview - Find papers - Identify relevant concepts

PubMed (life sciences)  
BASE (all disciplines)

Refine your search

Enter your search term

GO

Try out: sugar digital education

What is Open Knowledge Maps?

Finding KNOWLEDGE about



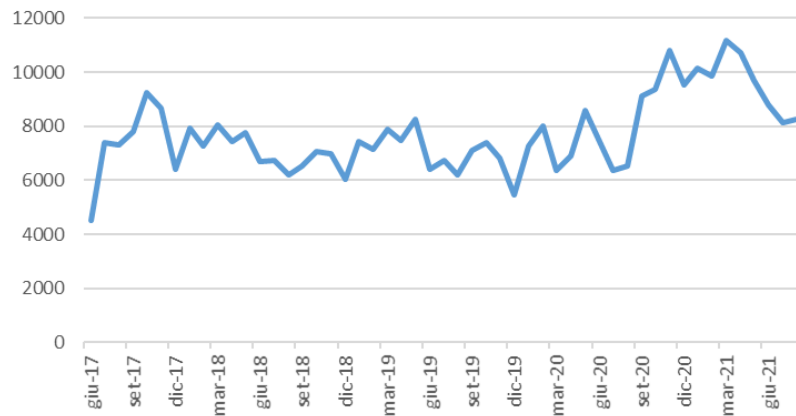
ZIKA

[https://www.youtube.com/watch?v=5IYzOZ2Cv\\_I](https://www.youtube.com/watch?v=5IYzOZ2Cv_I)

Literature

TEXT AND  
DATA MINING

Giu 2017-Ago 2021



PUBMED  
LINKOUT

NCBI Resources How To

PubMed.gov PubMed 2900032[uid]

US National Library of Medicine National Institutes of Health Create RSS Create

Format Abstract

Breast Cancer Res Treat. 1988 May;11(2):147-53.

Distribution of Ha-RAS-1 proto-oncogene alleles in breast cancer patients and in a control population.

Saglio G<sup>1</sup>, Camaschella C, Giai M, Serra A, Guerrasio A, Peirone B, Gasparini P, Mazza U, Ceppellini R, Biglia N, et al.

Author information

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[7.713 media]



...collegando ricerca e industria...

FRANCO TOSI

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<https://www.lens.org/>

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BANCA DATI OPEN CHE RACCOGLIE BREVETTI INSIEME A LETTERATURA SCIENTIFICA, DATI, SEQUENZE BIOLOGICHE



# ...con un po' di co-creat

**ORION**  
open science

**ORION  
INSPIRING  
STORIES**

Ideas & examples

**ORION INSPIRING STORIES INDEX**

- CITIZEN SCIENCE** (PAGE 3)  
Introducing co-creation in fundamental life sciences?
- CO-CREATION** (PAGE 6)  
Encouraging co-creation through a funding call
- OPEN SCIENCE** (PAGE 8)  
Aligning an entire country to develop an Open Science action plan
- PUBLIC DIALOGUES** (PAGE 10)  
Thinking differently through dialogue
- PUBLIC ENGAGEMENT** (PAGE 12)  
Using Art as a way to level the playing field when discussing science

## What is Co-creation?

Co-creation has been defined as **"purposeful action of associating with strategic customers, partners or employees to ideate, problem solve, improve performance, or create a new product, service or business"**. In essence, co-creation experiences are a way in which to connect multiple stakeholders, bringing them together to discover their interests and values and using these opportunities to discuss, develop and implement projects or ideas to achieve new, inclusive, forward-thinking research strategies. As a result, co-creation experiences allow high-quality interactions and unique experiences, with those involved becoming connected, informed and empowered.

## Co-creation menu

**Co-creation experiences seek to engage multiple stakeholders at all points of the research lifecycle**, from conception of a novel research project, through funding selection and resourcing, to dissemination of research findings and use of those findings within society, which in turn informs future funding calls. In this way, the hopes, concerns and aspirations of the end users of research, the public, are integrated from the very beginning of the process right through to the end. This concept maps well with the idea of making science truly open, transparent and responsive to societal needs, a new approach of the European Research Area known as Open Science.

Scenario Building Exercise	To plan and prepare for	Method Type	Method Name(s)	Objective	Audience Size	Audience Type	Event Time	Total Time	Budget (€-€€€€)	
World Café & Science Café	To provide a about societal iss	Deliberative	Citizens Hearing	To inform and create discussion among citizens	20-25	Citizens, experts, decision-makers	1D	7M	€€€	Regional Development in Co
Community-Based participatory Research (CBPR)	To involve CSOs members in all stages to framing and doing the resear		Citizens Summit / Assembly	To find out the citizens' attitudes about political priorities and possible courses of action provided on an informed basis	200-5000	Anyone	1D	Var	€€€€	EU Proj
Participatory Action Research (PAR)	To engage citizens in a practical and transf of their living conditions and everyday pr		Civic Dialogue	To encourage innovation, trust and confidence to facilitate the creation of a legitimate roadmap for moving forward in a particular direction	Var	CSOs, policy-makers, researchers	Var	Var	€€€	High-level dialogue on Intern
Crowd Wise	To encourage		Deep Democracy / The Lewis Method	To access and bring out the wisdom within a group, and particularly to release the creative potential that results from conflict	Var	Anyone	1-2 D	Var	€€	Conversation Across the Socie
Demand Driven Research in Curriculum	To place research projects for		Deliberative Mapping	To provide a more robust, democratic and accountable decision making which better reflects public values	- 60	Citizens, experts	6D	4M-1Y	€€€€	Appraising options for address
Focus Groups	To determine the preferences of		Democa Card Game / Play Decide	To enable small groups of people to engage with complex public policy issues	4 to 8	Citizens	1-4 D	Var	€	Public engagement o 'Democs' tool, ESRC G
Open Space Technology	Policy formulation, Programme development, P		Distributed Dialogue	To develop ongoing, embedded discussions around a topic	>5000	Researchers, citizens	2-5 D	>1Y	€€€	Bioenergy Dial
Perspective Workshop	To explore possible myth forward guidelines on a given		Expert Panel	To synthesise a variety of inputs on a specialised topic and produce recommendations	- 100	Researchers, citizens, policy makers	1-2 H	6M	€€	Translating Research into Practic
Public Dialogue	To gather social intelligence to inform policy,		Interdisciplinary Work Groups	To take professional stock of the situation and partly to propose possible courses of action to ensure, initiate, promote or check development in the area	15-30	CSOs, policy-makers, researchers	2-5 D	8M	€€	Opening up the Hur community, Da
Public Participation in Developing an Common Framework for the Assessment and Management of Sustainable Innovation	To develop prio		Multi Criteria Decision Analysis (MCDA)	To rank a set of options from the most preferred to the least preferred option; policy formulation, programme development	Var	CSOs, researchers, citizens	4D	1Y	€€	PorGrow - Poli growing challen
User committee / Valorisation panels	To involve users formal monitoring and steer		Planning Calls / Citizens Jury	To develop a set of solutions to a problem delegated to the participants by a commissioning body	25	Citizens	4-5 D	5M	€€€€	Citizens jury on Water M
Consensus Conference	To enrich and expand a c		Q Methodology	To gain insight into the diversity of perspectives	50-100	CSOs, policy-makers, researchers	3M	6M	€€	Biomass Dialogue, Instit
Future Search Conference	To encourage participants to th		Scenario Building Exercise	To plan and prepare for an uncertain future; vision building	Var	Anyone	2-5 D	6M	€-€€€	Research Agenda Scenario f
Online Forum	To provide some form			To provide a means for public debates						
Deliberative Polling	To get both a representative and an informed (deliberative)					100-500	Citizens with	1D	8M	€€€€



# Go Open: A beginners guide to open education

## Four Reasons to Go Open

- 1 Save money for your students
- 2 Bring real world examples into your teaching
- 3 Save time by reusing existing resources
- 4 Contribute to broadening access to education

 Farrell, O., Breen, E., Brunton, J., Cox, R., Costello, E., Delaney, L., Gallagher, E., Smyth, V. (2021). Go Open: A beginners Guide to Open Education. Dublin: DCU. Doi: 10.5281/zenodo.4593103

## GoOpen

### Go Open: a beginner's guide to open education

A guide to engaging with open education practices in your teaching, research and support activities

- Introduction
- What is open education?
- What are open teaching & learning practices?
- What are OER?
- How do I find and use open resources?
- Why Go Open?
- Downloadable resources
- References



The Go Open project is a collaborative project based in Dublin City University (DCU) and comp Digital Learning Design Unit. The project aims to support the DCU Community to engage with c activities. The Go Open Project is funded by the National Forum for the Enhancement of Teach Enhancement Unit through the SATLE 19 fund.

The Go Open logo was designed by Aleksandra Shornikova from the DCU Digital Learning Dei



# Go Open: A beginners guide to open education

## Four Ways to Go Open

- 1 Share your open practice
- 2 Deposit your work in open repositories
- 3 Use Creative Commons licensing
- 4 Use open educational resources

 Farrell, O., Breen, E., Brunton, J., Cox, R., Costello, E., Delaney, L., Gallagher, E., Smyth, V. (2021). Go Open: A beginners Guide to Open Education. Dublin: DCU. Doi: 10.5281/zenodo.4593103



## Open Education



 Farrell, O., Breen, E., Brunton, J., Cox, R., Costello, E., Delaney, L., Gallagher, E., Smyth, V. (2021). Go Open: A beginners Guide to Open Education. Dublin: DCU. Doi: 10.5281/zenodo.4593103

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# ... con Open peer review

SYSTEMATIC REVIEW

## What is open peer review? A systematic review [version 1; referees: 1 approved, 3 approved with reservations]

Tony Ross-Hellauer

- Author details
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#### Invited Referees

Version(s)	1	2	3	4
Version 2 published 31 ago 2017	REVISÉ	✓ read report	✓ read report	✓ read report
Version 1 published 27 apr 2017	✓ read report	? read report	?	?

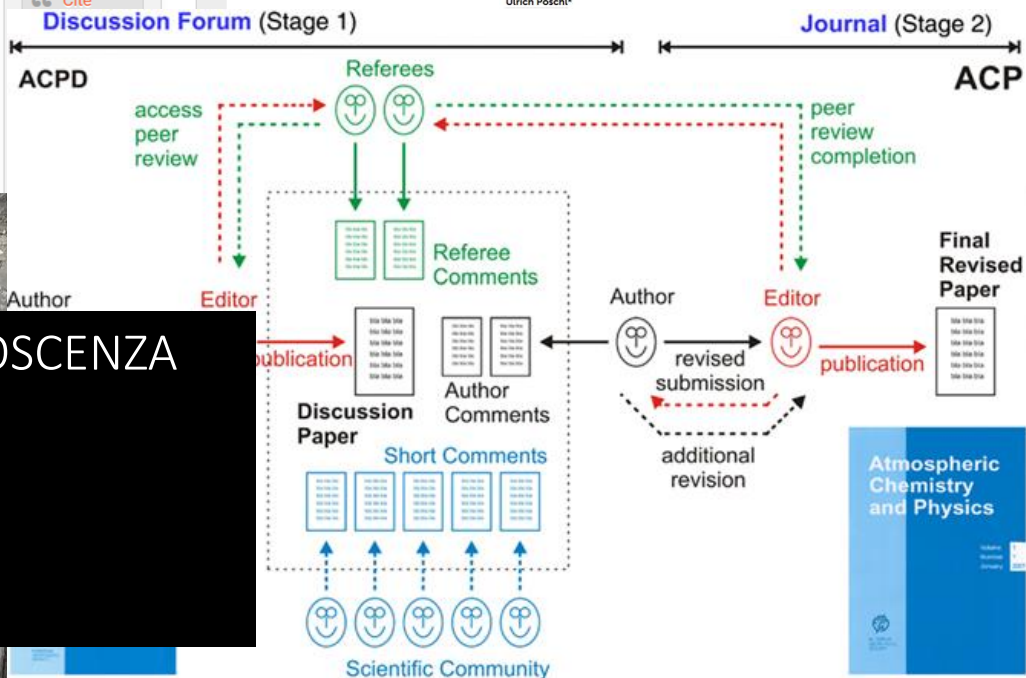
REVIEW ARTICLE  
From: Comput. Neurosci., 05 July 2012 | <https://doi.org/10.3389/fncom.2012.00033> [Poschl 2012](#)  
**Multi-stage open peer review: scientific evaluation integrating the strengths of traditional peer review with the virtues of transparency and self-regulation**  
Ulrich Pöschl\*



This article is included in the [The Future of Scholarly Publishing](#) collection.

### Abstract

Background: "Open peer review" (OPR), despite being a major pillar of Open Science, has neither a standardized definition nor an agreed schema of its features and implementations. The literature reflects this, with a myriad of overlapping and often contradictory definitions. While the term is used



- REVISIONI COME «PEZZI» DI CONOSCENZA
- HANNO UN DOI
- SONO CITABILI
- DEVONO ESSERE VALUTATE COME «PRODOTTI» DELLA RICERCA

# ... con Open peer review

## How does open peer review benefit authors?

Here's how our innovative model benefits authors:

- Empowers authors to lead the process by suggesting reviewers themselves. Download our handy authors guide to help find reviewers.
- Enables conversation within the research community with fully transparent peer review
- Reduces the possibility of bias, as everything is openly available to all
- Accelerates the pace of discovery by publishing research before it undergoes peer review
- Improves the quality of peer review by allowing everyone to benefit and learn from reading reviewer feedback

## The benefits of open peer review

2021



Open Research Europe



## What are the benefits of open peer review for reviewers?

Here's how reviewers benefit from our open peer review model:

- Allows reviewers to get credit and recognition for their work
- Enables career development with co-reviewing opportunities, particularly with early career researchers (ECRs)
- Enables collaboration with others through our open peer review model
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## Fifteen journals to outsource peer-review decisions

By Cathleen O'Grady | Apr. 19, 2021, 5:10 AM

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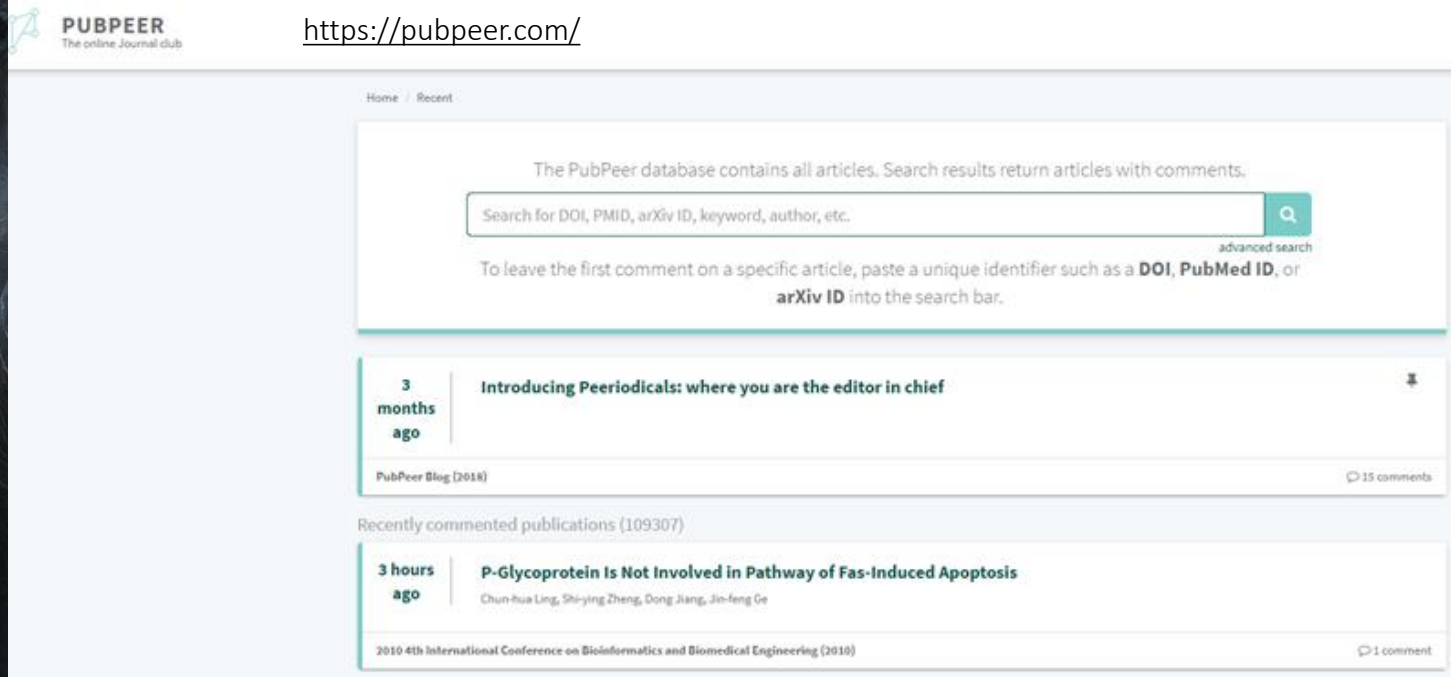
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But with PCI RR performing all the steps involved in peer review, publishers will have to demonstrate their value, Hoyt says. He says publishers still operate platforms that draw readers, and they do important work to format articles so they can be aggregated by PubMed and other databases. "There's a role for publishers still to play," he says, "but I think they will have to start justifying the prices they charge."

# ...o post-peer review



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Wilson, Willie; Martinez Martinez, Joaquin; Archer, Steve; Fields, David; Gilg, Ilana; Fløge, Sheri

(show affiliations)

Experimental data sets used for manuscripts associated with coccolithovirus infection of *Emiliania huxleyi*. Flow cytometry data; expression data of genes associated with photophysiology, fatty acid metabolism and sulphur cycling.

Please contact Willie Wilson (wilwil@sahfos.ac.uk) for further information.

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css	Basic simulator with HTML, turtle, PDF, PNG and SVGs	9 months ago
examples	Basic simulator with HTML, turtle, PDF, PNG and SVGs	9 months ago
graphserver	Add svg in a page per graph/scenario	9 months ago
notes	Notes from meeting	9 months ago
gitignore	Editor and pyc files	9 months ago
Makefile	Add PNG images for use on github pages because github doesn't support...	9 months ago
README.md	Links...	9 months ago
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anxiv_no_item.png	Add PNG images for use on github pages because github doesn't support...	9 months ago
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A methodology for gathering and annotating the raw-data/characteristics of the documents citing a retracted article

Ivan Heibi<sup>1</sup>, Silvio Peroni<sup>1</sup>

<sup>1</sup>University of Bologna

Ivan Heibi

Dec 09, 2020 • 217 • 83

Keyword appears in: authors



Protocollo di Conformità di Riviste Scientifiche all Open Access

Daniele Cavestri<sup>1</sup>, Francesca Mangialardo<sup>1</sup>, Sebastian Barzaghi<sup>1</sup>, Silvio Peroni<sup>1</sup>

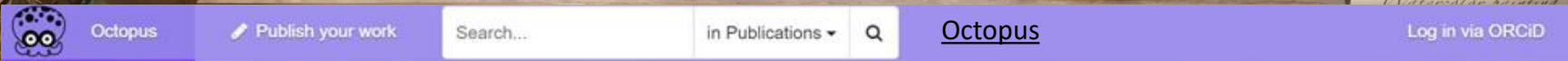
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Sebastian Barzaghi

Jul 15, 2019 • 243 • 72 • 1

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## my/our strategy:

My/my team's publishing goal is to establish priority on findings. That is why we intend to publish as early as possible in our workflow. We aim to use these platforms and venues to communicate and share our research.

This sheet can be used for discussing current ways of working and for discussing strategies, in groups as well as individual settings. Relevant options can vary for different projects or different strategy options chosen in the various columns make sense and do not contradict, although you can have multiple goals and parallel ways of working. You can try the tool here. For full interactive functionality, first download your own copy of the worksheet. Then start by ticking a goal, which will often trigger some suggestions in the other columns that you can make. Making selections your narrative will be built. The tool will lead to general background information, it's also possible to add information in the Utrecht University context (when reusing outside Utrecht you can add your own context). Note this tool should not be a straitjacket but rather facilitate discussion. Copy-paste and manually edit the narrative generated here. Read more on the [ABOUT](#) page.



Jeroen Bosman

Feb.13 2022 ...

@jeroenbosman

Our new experimental tool helps rethink publishing strategies in an open science context. Based on your goals you can select what, when, how and where to publish. With suggestions & background links and an automatically generated

### Publication strategy: A preconsidered & coherent set of choices regarding the why, what, when, how and where of sharing/publishing research. What are your or your team's priorities for the next project coming up? What role for open science practices in your publishing?

[WHY]	[WHAT]	[WHEN]	[HOW]	[WHERE]
<b>As my/my team's publishing goal is to ...</b> <input checked="" type="checkbox"/> establish priority on findings <input type="checkbox"/> invite comments, feedback & scrutiny <input type="checkbox"/> archive evidence <input type="checkbox"/> promote my (team's) visibility <input type="checkbox"/> create material to use in education <input type="checkbox"/> communicate with societal stakeholders <input type="checkbox"/> meet formal funder requirements <input type="checkbox"/> foster careers of ECRs and temporary staff <input type="checkbox"/> get new funding <input type="checkbox"/> have work formally peer reviewed <input type="checkbox"/> provide information researchers can build on <input type="checkbox"/> provide information practitioners etc. can build on <input type="checkbox"/> make scholarly communication more equitable <input type="checkbox"/> make it easy for others to use the work <input type="checkbox"/> help improve reproducibility of science <input type="checkbox"/> contribute to knowledge curation <input type="checkbox"/> reach the largest possible audience <input type="checkbox"/> make it easy for others to assess the work	<b>... we intend to publish these ...</b> <input type="checkbox"/> research applications/proposals <input type="checkbox"/> preregistrations <input type="checkbox"/> registered reports <input checked="" type="checkbox"/> data <input type="checkbox"/> data papers <input checked="" type="checkbox"/> code & software <input type="checkbox"/> workflows and methods <input type="checkbox"/> presentation slides <input type="checkbox"/> conference posters <input checked="" type="checkbox"/> articles/books reporting research results <input type="checkbox"/> negative/null results <input checked="" type="checkbox"/> replication studies <input type="checkbox"/> review articles <input type="checkbox"/> systematic reviews <input type="checkbox"/> meta-analyses <input type="checkbox"/> popularising books <input type="checkbox"/> blogs etc. on project progress <input type="checkbox"/> blogs etc. aimed at discussion <input type="checkbox"/> opinion pieces (e.g. in newspapers)	<b>... at these moments ...</b> <input type="checkbox"/> upon creation (open drafting) <input checked="" type="checkbox"/> as early as possible in our workflow <input type="checkbox"/> also before review (e.g. as preprint) <input type="checkbox"/> after formal peer review	<b>... while trying to ...</b> <input type="checkbox"/> use double blind peer review <input type="checkbox"/> use single blind peer review <input type="checkbox"/> use open peer review (identifies) <input type="checkbox"/> allow open peer review reports <input checked="" type="checkbox"/> discuss author order with all authors <input type="checkbox"/> indicate contributor roles (CREDIT) <input type="checkbox"/> credit all contributors to the research <input checked="" type="checkbox"/> add a plain language abstract <input type="checkbox"/> add a data availability statement <input type="checkbox"/> cite OA (versions of) literature <input type="checkbox"/> add multilingual abstracts <input type="checkbox"/> contribute to closed peer review <input type="checkbox"/> contribute to open peer review <input type="checkbox"/> contribute to open commenting <input type="checkbox"/> improve versions using public comments <input type="checkbox"/> add a visual abstract <input type="checkbox"/> provide formal data/software citations <input checked="" type="checkbox"/> provide researcher identifiers (ORCIDi) <input checked="" type="checkbox"/> attach a CC-BY or CC0 license	<b>... using these platforms/venues:</b> <input type="checkbox"/> fully open access journals <input checked="" type="checkbox"/> fully open access journals without APCs <input type="checkbox"/> open access books <input type="checkbox"/> institutional repositories <input type="checkbox"/> subject repositories <input type="checkbox"/> general repositories like Zenodo <input checked="" type="checkbox"/> our own project website <input type="checkbox"/> journals with a high impact factor <input type="checkbox"/> journals reaching the intended audience <input type="checkbox"/> learned society journals <input type="checkbox"/> journals of prestigious publishers <input type="checkbox"/> highly selective journals <input type="checkbox"/> journals only checking methodological rigour <input type="checkbox"/> journals with statistical review expertise <input type="checkbox"/> journals with the largest readership <input type="checkbox"/> specialised topical journals <input type="checkbox"/> broad multidisciplinary journals <input type="checkbox"/> journals explicitly aimed at interdisciplinarity <input type="checkbox"/> data archives

As my/my team's publishing goal is to ...	... we intend to publish these ...	... at these moments ...
<input checked="" type="checkbox"/> establish priority on findings	<input checked="" type="checkbox"/> research applications/proposals	<input type="checkbox"/> upon creation (open drafting)
<input type="checkbox"/> invite comments, feedback & scrutiny	<input type="checkbox"/> preregistrations	<input checked="" type="checkbox"/> as early as possible in our workflow
<input type="checkbox"/> archive evidence	<input type="checkbox"/> registered reports	<input type="checkbox"/> also before review (e.g. as preprint)
<input type="checkbox"/> promote my (team's) visibility	<input checked="" type="checkbox"/> data	<input type="checkbox"/> after formal peer review
<input type="checkbox"/> create material to use in education	<input type="checkbox"/> data papers	
<input type="checkbox"/> communicate with societal stakeholders	<input type="checkbox"/> code & software	
<input type="checkbox"/> meet formal funder requirements	<input type="checkbox"/> workflows and methods	
<input type="checkbox"/> foster careers of ECRs and temporary staff	<input type="checkbox"/> presentation slides	
<input type="checkbox"/> get new funding	<input type="checkbox"/> conference posters	
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<input type="checkbox"/> provide information practitioners etc. can build on	<input type="checkbox"/> replication studies	
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# How Science Beat the Virus

And what it lost in the process

Story by Ed Yong

Dec.14, 2020

## A Practical Guide to Preprints

Accelerating Scholarly Communication

2021



papers, or “preprints,” to freely accessible websites, allowing others to immediately dissect and build upon their results. This practice had been slowly gaining popularity before 2020, but proved so vital for sharing information about COVID-19 that it will likely become a mainstay of modern biomedical research. Preprints accelerate science, and the pandemic accelerated the use of preprints. At

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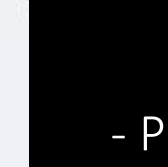
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- What are preprints?
- Pros and cons of preprints
- What are the disciplinary aspects and recent developments around preprints?

#### Practical guide

- Where to find a preprint server
- What to consider before selecting a preprint server
- How to post a preprint
- How to prepare a preprint
- How to upload a preprint
- What licence to choose for a preprint
- How to revise a preprint
- How to withdraw a preprint
- How to link a preprint to the published journal article

#### For the public:

##### How to interpret the information in a preprint?

- Recognising the differences between a preprint and a published article
- How to recognise a preprint?
- What to do if a preprint seems interesting?



[ma...]

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**Scienza aperta e Covid-19: che  
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di Giovanna Borrelli e Francesco Sparano — 30 Settembre 2020



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↑ AfricArxiv	All scientific fields	Academic community group; charity	Google Scholar, SHARE, Microsoft Academic, Unpaywall	Permanent with some removal options in extraneous circumstances	COS Preservation Fund to maintain read access for 50+ years Commenting (including annotation plug-ins), Onsite search
↑ AgriXiv	Relating to agriculture and allied sciences, including life sciences, medicine and health sciences, social and behavioural sciences	Academic community group	Google Scholar, SHARE, Microsoft Academic, Unpaywall	Permanent with some removal options in extraneous circumstances	COS Preservation Fund to maintain read access for 50+ years Commenting (including annotation plug-ins), Onsite search
↑ AMRC Open Research	Broad life & biomedical research, including basic scientific, translational, applied	Funding organisation (funder); Membership organisation	Google Scholar, Prepubmed, Europe PMC, SciLit		

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OPINION ARTICLE  
**REVISED** Open laboratory notebooks: good for science, good for society, good for scientists [version 2; peer review: 2 approved, 1 approved with reservations]

Matthieu Schapira <sup>1,2</sup>, The Open Lab Notebook Consortium, Rachel J. Harding <sup>1</sup>



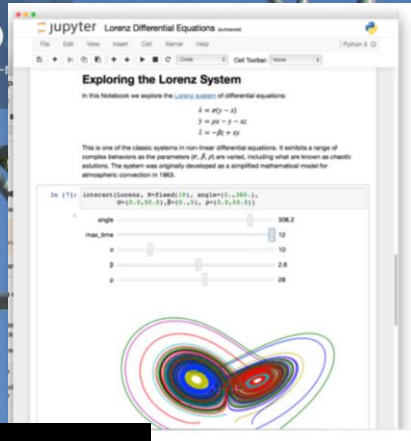
# What is an Open Notebook?

Open Notebooks are documents that contain equations, visualisations, narrative text and live code that can be executed independently and interactively, with output visible immediately beneath the input.

They bring together analysis descriptions and results, which can be executed to perform the data analysis in real time.

RStudio

**RStudio**  
Open source and enterprise-  
professional software for R



OPEN LAB NOTEBOOK CONTENGONO TUTTO:  
TESTO, METODO, DATI, SOFTWARE, CODICE  
ESEGUIBILE... SERVONO ANCORA LE RIVISTE CHE  
PUBBLICANO SOLO LA SINTESI DELLA RICERCA?

# Documenti vivi

## The big idea: should we get rid of the scientific paper? Apr. 11, 2022

As a format it's slow, encourages hype, and is difficult to correct. A radical overhaul of publishing could make science better

Consider the messy reality of scientific research. Studies almost always throw up weird, unexpected numbers that complicate any simple interpretation. But a traditional paper - word count and all - pretty well forces you to dumb things down. If what you're working towards is a big, milestone goal of a published paper, the temptation is ever-present to file away a few of the jagged edges of your results, to help "tell a better story". Many scientists admit, in surveys, to doing just that - making their results into unambiguous, attractive-looking papers, but distorting the science along the way.

■ ■ Some fields of science are already using online notebooks instead of journals - living documents instead of living fossils

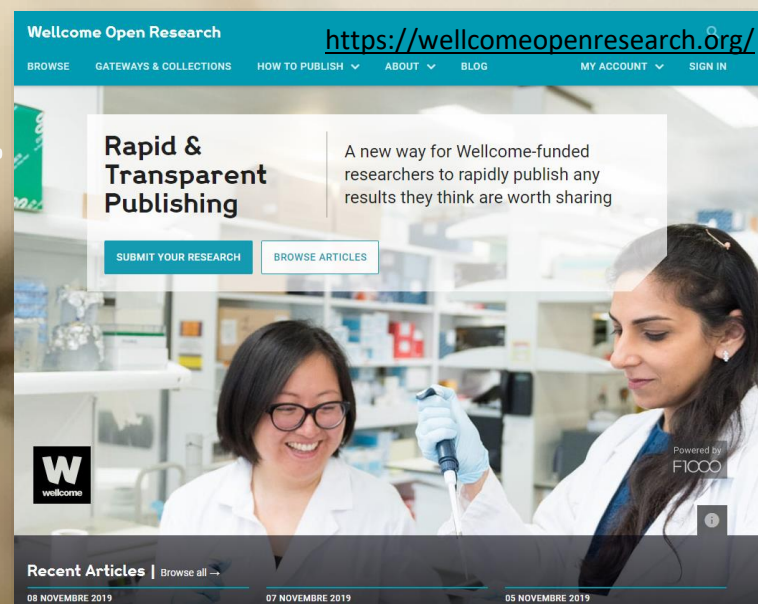
And consider corrections. We know that scientific papers regularly contain errors. One algorithm that ran through thousands of psychology papers found that, at worst, more than 50% had one specific statistical error, and more than 15% had an error serious enough to overturn the results. With papers, correcting this kind of mistake is a slog: you have to write in to the journal, get the attention of the busy editor, and get them to issue a new, short paper that formally details the correction. Many scientists who request corrections find themselves stonewalled or otherwise ignored by journals. Imagine the number of errors that litter the scientific literature that haven't been corrected because to do so is just too much hassle.

LE RIVISTE SONO ANTICHE, INEFFICACI, OBSOLETE. USIAMO GLI OPEN NOTEBOOK...DOCUMENTI VIVI AL POSTO DI FOSSILI

We've made astonishing progress in so many areas of science, and yet we're still stuck with the old, flawed model of publishing research. Indeed, even the name "paper" harkens back to a bygone age. Some fields of science are already moving in the direction I've described here, using online notebooks instead of journals - living documents instead of living fossils. It's time for the rest of science to follow suit.



...e non più riviste / 1 ...



## PIATTAFORME DI PUBBLICAZIONE

### Open Research Europe

How to Publish ▾ About ▾

#### Rapid & Transparent Publishing

Fast publication and open peer review for research stemming from Horizon 2020 funding across all



Enables researchers to publish any research they wish to share, supporting reproducibility, transparency and impact.



Uses an open research publishing model: publication within days of submission, followed by open invited peer review.



Includes citations to all supporting data and materials, enabling reanalyses, replication and reuse.

ORE

...non più r

RESEARCH EQUALS...  
SE PUBBLICHI OPEN  
(CCBY) NON PAGHI  
NULLA, SE VUOI TENERE  
CHIUSO ALLORA PAGHI

**R=** ResearchEquals

ResearchEquals [Log in](#) [Create account](#)

## Step by step publishing of your research

A new publishing format: Research modules.

[Get started](#) [Browse modules](#)

### Zero cost

We ♥ open access, so we made it free.

- ✓ CC0 Public Domain Dedication
- ✓ CC BY 4.0

### Pay to close

Need more restrictive licenses?

- € 149.99 - CC BY-SA 4.0
- € 194.99 - CC BY-NC 4.0
- € 249.99 - CC BY-ND 4.0
- € 329.99 - CC BY-NC-SA 4.0
- € 429.99 - CC BY-NC-ND 4.0
- € 549.99 - All rights reserved



POLICY

### WHEN PRIVACY-BOUND RESEARCH PAYS FOR OPEN SCIENCE 2016

© 27 APRIL 2016 | EUROSCIENTIST | 1 COMMENT

A new open science business model charges those who want to keep information private to subsidise those who share it

BAREND MONS 2016:  
CLOSED SCIENCE ALSO  
PAYS FOR OPENNESS



# ...cosa ci ha insegnato il COVID / 4

## Implications of pandemic for publications



È ORA DI INVERTIRE L'ORDINE

- 1) PUBBLICARE
- 2) FARE OPEN PEER REVIEW
- 3) GUADAGNARSI L'IMPATTO NELLA VITA REALE, NON USANDO L'IMPACT FACTOR [«TOSSICO»] ( SI VINCE LA MEDAGLIA D'ORO PRIMA ANCORA DI AVER CORSO)

Need to rethink publishing

- 1<sup>st</sup> Publish
- 2<sup>nd</sup> Open (meta) peer review
- 3<sup>rd</sup> Earn impact

Why have impact factors?! - Like awarding the medals BEFORE the race has run

Traditional publishing model is no longer fit for purpose too slow and no guarantee of quality

It feels like we're running electric cars on steam train tracks



Impact Factor is a toxic indicator



## Use of pre-prints – calling time on subscription



- WHO repository IRIS 150 publications relating to Covid-19 - 25% referencing pre-prints
- NEW development WHO [Living Guidelines](#) available online via the MAGICapp
- 3 WHO Living guidelines for Covid-19. Therapeutics 6 versions since November 2020.

Analysis of version 5 March 2021

- 44% of its references as pre-print
- 33% unpublished results shared with WHO
- Therefore < 25% from traditional published literature.....

[Robert Terry OSfair 2021](#) [min. 16.48-46]



<https://app.magicapp.org/#/guidelines>

<25% DI ARTICOLI TRADIZIONALI INCLUSO NELLE LINEE GUIDA DELL'OMS  
IL SISTEMA TRADIZIONALE CI HA TRADITI NEL MOMENTO IN CUI AVEVAMO PIÙ BISOGNO

...servono i dati FAIR

## FAIR Principles

## Compliance



### Findability

Resource and its metadata are easy to find by both, humans and computer systems. Basic machine readable descriptive metadata allows the discovery of interesting data sets and services.

- ✓ F1. Resource is uploaded to a public repository.
- ✓ F2. Metadata are assigned a globally unique and persistent identifier.



### Accessibility

Resource and metadata are stored for the long term such that they can be easily accessed and downloaded or locally used by humans and ideally also machines using standard communication protocols.

- ✓ A1. Resource is accessible for download or manipulation by humans and is ideally also machine readable.
- ✓ A2. Publications and data repositories have contingency plans to assure that metadata remain accessible, even when the resource or the repository are no longer available.



### Interoperability

Metadata should be ready to be exchanged, interpreted and combined in a (semi)automated way with other data sets by humans as well as computer systems.

- ✓ I1. Resource is uploaded to a repository that is interoperable with other platforms.
- ✓ I2. Repository meta- data schema maps to or implements the CG Core metadata schema.
- ✓ I3. Metadata use standard vocabularies and/or ontologies.



### Reusability

Data and metadata are sufficiently well-described to allow data to be reused in future research, allowing for integration with other compatible data sources. Proper citation must be facilitated, and the conditions under which the data can be used should be clear to machines and humans.

- ✓ R1. Metadata are released with a clear and accessible usage license.
- ✓ R2. Metadata about data and datasets are richly described with a plurality of accurate and relevant attributes.

FAIR principles

«ACCESSIBLE»  
NON SIGNIFICA «OPEN».  
I DATI POSSONO  
RIMANERE CHIUSI PER  
VALIDE RAGIONI,  
PURCHÉ ALTRI  
RICERCATORI (E LE  
MACCHINE) SAPPIANO  
DOVE TROVARLI E CON  
QUALI CONDIZIONI DI  
ACCESSO



# FAIR research software

The FAIR4RS Principles are:

**F: Software, and its associated metadata, is easy for both humans and machines to find.**

F1. Software is assigned a globally unique and persistent identifier.

- F1.1. Components of the software representing levels of granularity are assigned distinct identifiers.
- F1.2. Different versions of the software are assigned distinct identifiers.

F2. Software is described with rich metadata.

F3. Metadata clearly and explicitly include the identifier of the software they describe.

F4. Metadata are FAIR, searchable and indexable.

**A: Software, and its metadata, is retrievable via standardized protocols.**

A1. Software is retrievable by its identifier using a standardized communications protocol.

- A1.1. The protocol is open, free, and universally implementable.
- A1.2. The protocol allows for an authentication and authorization procedure, where necessary.

A2. Metadata are accessible, even when the software is no longer available.

**I: Software interoperates with other software by exchanging data and/or metadata, and/or through interaction via application programming interfaces (APIs), described through standards.**

I1. Software reads, writes and exchanges data in a way that meets domain-relevant community standards.

I2. Software includes qualified references to other objects.

**R: Software is both usable (can be executed) and reusable (can be understood, modified, built upon, or incorporated into other software).**

R1. Software is described with a plurality of accurate and relevant attributes.

- R1.1. Software is given a clear and accessible license.
- R1.2. Software is associated with detailed provenance.

R2. Software includes qualified references to other software.

R3. Software meets domain-relevant community standards.

FAIR RESEARCH  
SOFTWARE

Table 1: The FAIR Principles for Research Software

[i tre passi fondamentali]

OPEN

FAIR

GESTITI

1. I DATI DEVONO ESSERE «AS OPEN AS POSSIBLE»

2. MA SE I DATI NON SONO «FAIR», APRIRLI COMPORTA RISCHI  
(USO SCORRETTO, CATTIVE INTERPETAZIONI, ...)

3. MA SE I DATI NON SONO CORRETTAMENTE GESTITI, RENDERLI  
«FAIR» COSTA TROPPO TEMPO E DENARO. CON EOSC, DATI GESTITI E  
DATI FAIR TENDONO A COINCIDERE, FAIR BY DESIGN

E GESTIRE I DATI CORRETTAMENTE È NELL'INTERESSE PRIMARIO DI CHI FA RICERCA,  
PERCHÉ L'INTERA RICERCA SCORRE PIÙ FLUIDA



# 1) Gestione dei dati

DESCRIZIONE  
(metadati)

ORGANIZZAZIONE  
(file naming,  
folders,  
versioning...)

BACKUP E  
STORAGE

CONSERVAZIONE  
SUL LUNGO  
PERIODO



ASPETTI LEGALI

LUNGO TUTTO IL CICLO DI VITA

EOSC-Pillar 2022

Legal Compliance  
Guidelines for Researchers:  
a Checklist

# ... 2) renderli FAIR

## FINDABLE

- IDENTIFICATIVI
- METADATI

## INTEROPERABLE

- STANDARD
- ONTOLOGIE

## ACCESSIBLE

- DOVE SONO CONSERVATI I DATI E A QUALI CONDIZIONI DI ACCESSO
  - NON «OPEN»
  - FORMATI APERTI

## REUSABLE

- LICENZE
- DOCUMENTAZIONE







# 3) Se possibile, render

**SI SALVANO VITE.**

Digital Science Report  
**The State of Open Data 2021**  
 The longest-running longitudinal survey and analysis on open data  
 Foreword by Natasha Simons, Australian Research Data Commons (ARDC)  
Nov. 29, 2021  
 November 2021

Open data saves lives. The global pandemic has highlighted beyond anything that came before it the importance of data sharing in solving the big challenges of our time. COVID-19 data may be the most visualized data in history and it was made publicly available on a daily basis to people all over the world. The urgent need to better understand and treat the virus in 2020 brought unprecedented collective and collaborative action from all research stakeholders on an international scale to bring down barriers to research and speed up analysis and testing. These efforts, combined with support from governments and industry, resulted in not one but many vaccines made available by the end of the year. This gives us a glimpse of what incredible research outcomes are possible when we start with collaboration to address a common threat. Imagine how much more we could do, how many more lives we could save, if research data was routinely made open and shared. So, why isn't data sharing the norm? The answers lie in the harmony needed between policies, infrastructure, and practices.

## Better research

- Demonstrates research integrity, as there is transparency and accountability in the production of the data
- Encourages research enquiry and debate
- Promotes innovation and potential new research
- Encourages the improvement of research
- Prevents research fraud

## Better impact

- Enables peer scrutiny of the research findings, validating the work carried out
- Increases the visibility of the research
- Provides credit for the creation of the data
- Can lead to new collaborations
- Produces a public record of the research

## Better value

- Avoids duplication of effort in data creation
- Provides resources for use in teaching and learning
- Meets funder requirements
- Ensures data can be re-visited for future research
- Maximises return on research investment
- Preparing data for sharing also prepares

**UNA RICERCA MIGLIORE**  
 - INTEGRITÀ  
 - DIBATTITO  
 - RIUSO INEDITO

**UN MAGGIORE IMPATTO**  
 - VISIBILITÀ  
 - CREDITO  
 - COLLABORAZIONI

**PIÙ VALORE**  
 - EVITA DUPLICAZIONI  
 - MASSIMO RITORNO SU INVESTIMENTI

# FAIR/Open



"Open data is like a renewable energy source: it can be reused without diminishing its original value, and reuse creates new value."

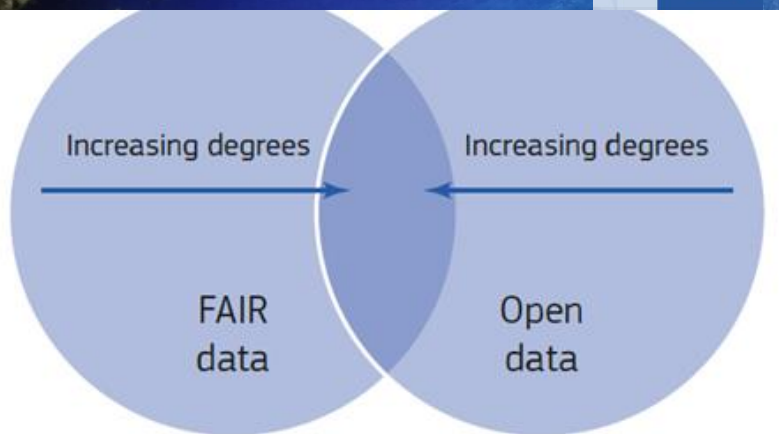


Figure 4. The relationship between FAIR and Open

Digital Science Report

The State of Open Data 2017

of analyses and articles about open data, curated by Figshare

Foreword by Jean-Claude Burgelman

Oct. 2017

OCTOBER 2017



Carlos Moedas  
@Moedas

Segui

2/4 "Open as possible, as closed as necessary" is the new principle for all #data from publicly funded #research in Europe #openaccess

RETWEET  
76

MI PIACE  
32



A TENDERE, I DUE INSIEMI SARANNO SEMPRE PIÙ SOVRAPPOSTI. MA ESISTERANNO SEMPRE DATI PERFETTAMENTE FAIR CHE NON POSSONO ESSERE OPEN



# Per sapere quanto siete FAIR

[FAIRassist.org](https://fairassist.org)

<https://fairassist.org/#/>

Help you discover resources to measure and improve FAIRness.

FAIRassist is the new, under development, educational component of the well established FAIRsharing resource.

Resource	Execution Type	Key Features	Organisation	Target Objects	Reading Material
5 Star Data Rating Tool	Manual - questionnaire	Based on rating systems and maturity models	CSIRO OzNome	Datasets	
AutoFAIR	Semi-automated	A portal for automating FAIR assessments for bioinfo	Department of Computer		
FAIR enough	Automated			<ul style="list-style-type: none"> <li>1. Core universal maturity indicators and community compliance tests</li> <li>2. Stable and fast evaluations execution (less than 1min for most evaluated resources, no commercial license required)</li> <li>3. Library for defining, publishing and registering new maturity indicators</li> <li>4. Supports ORCID authentication for creating collections and authoring evaluations</li> </ul>	Maastricht Uni
Data Stewardship Wizard	Predictive; based on a manually filled questionnaire	Helps researchers to design a data stewardship process to reach the highest reasonable FAIR data.			
FAIR-Aware	Manual - questionnaire			<ul style="list-style-type: none"> <li>1. Online self-assessment that helps to assess current level of awareness on making datasets FAIR before depositing them in a data repository.</li> <li>2. Added guidance texts explain the what, why, and how of each FAIR practice.</li> <li>3. Trainer functionality allows flexible use of the tool for your own purpose</li> </ul>	FAIRsFAIR (D
F-UJI	Automated	The REST API support a programmatic assessment of objects based on a set of core metrics developed by the FAIR metrics specification is available at <a href="https://doi.org/10">https://doi.org/10</a>			
FAIR-Checker	Automated			FAIR-Checker is a web interface to evaluate FAIR metrics (as implemented through the FAIR Evaluation Service APIs <a href="https://fairsharing.github.io/FAIR-Evaluator-FrontEnd/">https://fairsharing.github.io/FAIR-Evaluator-FrontEnd/</a> ) and to provide developers with technical FAIRification hints. It's also a Python framework aimed at easing the implementation of FAIR metrics.	IFB (ELIXIR-
FAIR Data Self-Assessment Tool	Manual - questionnaire	Educational and Informational purposes			
FAIR Evaluator	Automated	<ul style="list-style-type: none"> <li>1. Core universal maturity indicators</li> <li>2. Compliance tests</li> <li>3. Evaluation tool</li> </ul>			
FAIRdat	Manual - questionnaire			A 5-star rating of the FAIR principles	DANS
FAIRness self-assessment grids	Manual - checklist			<ul style="list-style-type: none"> <li>1. Assessment grids: quick and extensive</li> <li>2. Designed as a decision tree</li> <li>3. Researcher focused</li> </ul>	RDA-SHAR
FAIRshake	Manual - questionnaire			1. FAIR metrics (questions) and rubrics (collection of metrics)	NIH Data Com

# Supporto / Come essere FAIR

zenodo Search Upload Communities

January 11, 2022 **2022** **Book** **Open Access**

## D7.4 How to be FAIR with your data. A teaching and training handbook for higher education institutions

Engelhardt, Claudia; Biernacka, Katarzyna; Coffey, Aoife; Cornet, Ronald; Danciu, Alina; Demchenko, Yuri; Downes, Stephen; Erdmann, Christopher; Garbuglia, Federica; Germer, Kerstin; Helbig, Kerstin; Hellström, Margareta; Hettne, Kristina; Hibbert, Dawn; Jetten, Mijke; Karimova, Yulia; Kryger Hansen, Karsten; Kuusniemi, Mari Elisa; Letizia, Viviana; McCutcheon, Valerie; McGillivray, Barbara; Ostrop, Jenny; Petersen, Britta; Petrus, Ana; Reichmann, Stefan; Rettberg, Najla; Reverté, Carmen; Rochlin, Nick; Saenen, Bregt; Schmidt, Birgit; Scholten, Jolien; Shanahan, Hugh; Straube, Armin; Van den Eynden, Veerle; Vandendorpe, Justine; Venkataram, Shanmugasundaram; Wiljes, Cord; Wuttke, Ulrike; Yeomans, Joanne; Zhou, Biru

- 5 – FAIR lesson plans
- 6 – Implementing FAIR
  - 6.1 Introduction
  - 6.2 Getting to FAIR institutional policies
  - 6.3 Data management planning
  - 6.4 Data processing and documentation
  - 6.5 Support infrastructure
  - 6.6 Data publication
  - 6.7 Data reuse

## FAIR Cookbook

Created by researchers and data managers professionals, the FAIR Cookbook is an online resource for the Life Sciences with recipes that help you to make and keep data Findable, Accessible, Interoperable and Reusable (FAIR).

### Turning FAIR into practice

The FAIR Principles put specific emphasis on enhancing the ability of machines to automatically find and use the data, in addition to supporting its reuse by individuals. However, the FAIR Principles are aspirational and generic. The FAIR Cookbook guides researchers and data stewards of the Life Science domain in their FAIRification journey; and also provides policy makers and trainers with practical examples to recommend in their guidance and use in their educational material.

- FOREWORD
  - Introduction
  - Ethical values of FAIR
  - Glossary
- RECIPES
  - Findability
  - Accessibility
  - Interoperability

## HOW TO FAIR

### How to FAIR

What is FAIR Why FAIR How to FAIR About Quiz

# A deep dive into FAIR data

This website will take you on a deep dive into the subject matter of FAIR research data. Over the course of

## HOW TO FAIR

What is FAIR Why FAIR How to FAIR About Quiz

18 min read Documentation	12 min read File formats	20 min read Metadata
10 min read Access to data	7 min read Persistent identifiers	5 min read Data licences



# [perché c'è EOSC!]

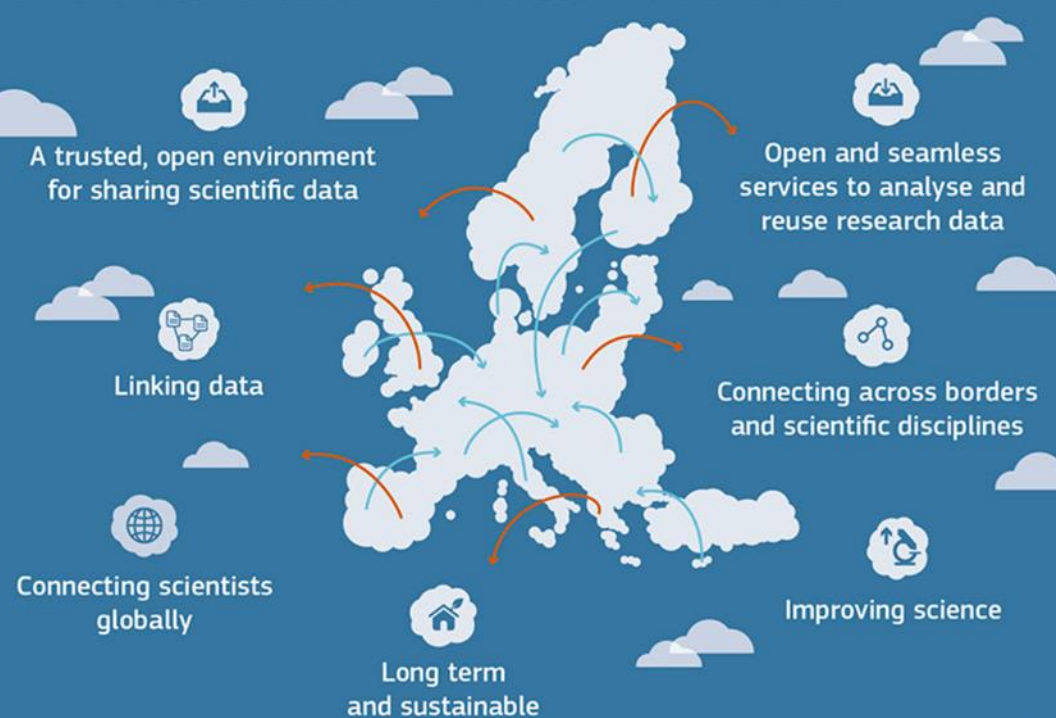
## The Vienna

Vienna, 23 Novem

## We, Ministers European Op

1. **Recall** the challenge of the European Open Science Cloud (EOSC) Declaration signed in Brussels on 10 July 2016.
2. **Reaffirm** the political commitment of the European Union and its Member States, sustainable and open to all.
3. **Recognise** that the EOSC Declaration is an iterative and based on consensus among researchers, scientists and stakeholders.
4. **Highlight** that the EOSC Declaration is a key element of the European Open Science Cloud (EOSC) Declaration, reaching out over the world.
5. **Recall** that the

## BRINGING TOGETHER CURRENT AND FUTURE DATA INFRASTRUCTURES



ACCESSO TRASPARENTE A DATI FAIR  
«AS OPEN AS POSSIBLE, AS CLOSED AS NECESSARY»

9. **Call** for the European Open Science Cloud to provide all researchers in Europe with seamless access to an open-by-default, efficient and cross-disciplinary environment for storing, accessing, reusing and processing research data supported by FAIR data principles.

9. **Note** that the 2016 EOSC Summit (held on 11 June 2016) called for acceleration towards making the European Open Science Cloud a reality, hinting at the need to further strengthen the ongoing dialogue across institutions and with stakeholders, for a new governance framework to be launched in Vienna, on 23 November 2018.

# EOSC



sustainable and a data economy. Data is a renewable resource as much as sun and wind. Every 18 months we double the amount of data we produce. **Industrial and commercial data, 85% of which is never used.**

**This is not sustainable. Within those data, there are hidden treasures and untapped opportunities for business and society. Europe is going to**

co-create a framework to allow the use of these data. It should consist of a trusted pool of non-personal data that governments, businesses and other stakeholders can contribute to. This pool will be a resource for open innovation, and bring new solutions to the market. And our scientists are already beginning to do this.

We are creating a European Open Science Cloud now. It is a trusted space for researchers to store their data and to access data from researchers from all other disciplines. We will create a pool of interlinked information, a 'web of research data'. Every researcher will be able to better use not only their own data, but also those of others. They will thus come to new insights, new findings and new solutions.

85% DEI DATI PRODOTTI NON VIENE USATO. INSOSTENIBILE

This is what we call the European Open Science Cloud and we are the first in the world to do that. It is being developed in Europe for Europe and for European researchers. The idea is that once we have the rules of the game ready, then we will open this up to the broader public sector and to business as well. So that companies can come in, store the data and use the data. And the idea is that it will also open up to international players.

A QUESTO SERVE EOSC. LA STIAMO CREANDO ADESSO



# [EOSC NON È UNA BIG BOX]

## THE EUROPEAN OPEN SCIENCE CLOUD? SOME NUANCES AND DEFINITIONS

Imagine a federated, globally accessible environment where researchers, innovators, companies and citizens can publish, find and re-use each other's data and tools for research, innovation and educational purposes. Imagine that this all operates under well-defined and trusted conditions, supported by a sustainable and just value for money model. This is the environment that must be fostered in Europe and beyond to ensure that European research leads to knowledge creation, meet global challenges and fuel economic growth.

EOSC NON È UN  
REPOSITORY O UN  
SERVIZIO «CLOUD»

SI RENDONO I DATI  
FAIR IN MODO CHE I  
\*SERVIZI\* IN EOSC  
POSSANO TROVARLI  
(«FINDABLE»)

EOSC = AMBIENTE CHE FAVORISCE  
LA OPEN SCIENCE E NON UN «OPEN  
CLOUD» PER LA SCIENZA

E FORNIRE UN ACCESSO  
«SEAMLESS» A 20  
MILIONI DI RICERCATORI

NON SI FA  
«UPLOAD» DEI DATI  
DENTRO EOSC

OBJECTIVES

EOSC SRIA 1.0

Open Science practices and skills  
are rewarded and taught, becoming  
the 'new normal'

### EOSC PROVIDERS: Who they are & what they provide



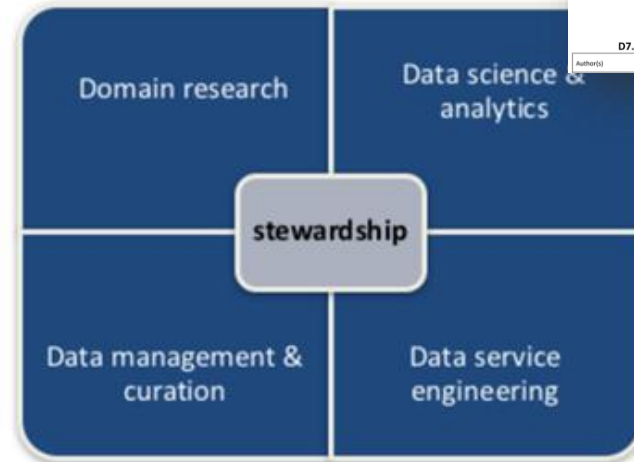
# [per i dati FAIR serve steward]

2018



D7.3: Skills and Capability Framework

Author(s) Angus Whyte, Jerry de Vries, Rahul Tharal, Eileen Kuhlke, Giuseppe Spina, Valentina Corradi, Yvonne Kohler, Karen Ashby



8

KOBENHAVNS UNIVERSITET

## Competence Profile

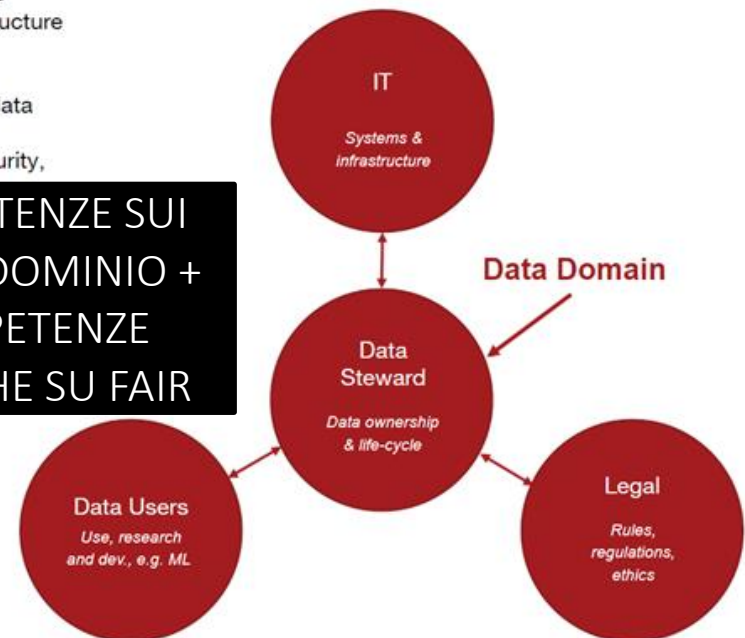
A data steward is a data specialist with strong domain-specific knowledge who understands and appreciates the relevance of data, data sources, data infrastructure and constraints within a scientific or other application domain.

The future Data Steward must assume ownership and responsibility for data, data quality, and the data life-cycle as their primary function. They should ensure collaboration and coherence between IT competences, quality assurance, security, rules & regulations, and facilitate the application and use of data internally and externally in the organisation.

### Competence profile examples

- Domain-specific data understanding
- Ability to ensure that structured and unstructured data data is modelled, harvested, stored, and maintained in documented, and regulated fashion with focus and findability, accessibility, interoperability, and reusability.
- Competences to facilitate HPC (High Performance Computing) during development and research through handling of large-scale data in public and private enterprises.
- Understanding of and competences within legal, ethical and security aspects of data handling, data sharing, e.g., integrity and GDPR.

COMPETENZE SUI  
DATI DI DOMINIO +  
COMPETENZE  
TECNICHE SU FAIR





[tempo di ripensare i ruoli]

nature > career column > article

CAREER COLUMN | 14 April 2022

## Time to re-think the divide between academic and support staff Apr. 2022

Research professionals should not be split into two categories, say Marta Teperek, Maria Cruz and Danny Kingsley.

In recent years, we have seen 'support' jobs become more important at research organizations, including roles such as data stewards, research software engineers, scientific community managers and programme managers. We have seen how a diversity of roles and contributions drives progress and success in research and innovation.

We have come to see the sharp distinction between 'academics' and 'support staff' as a barrier to effective research because it discourages a culture of collaboration and appreciation of a diversity of roles and contributions.

- LA DIVERSITÀ DEI CONTRIBUTI CONTRIBUISCE AL SUCCESSO
- CULTURA DI COLLABORAZIONE

them versus mindset drives rift between academic and non-academic staff

present at conferences and workshops; and lead developments in our areas of expertise. We are knowledge brokers, able to translate generic infrastructure, tools and policies into practical solutions that make research more efficient.

As professionals, we make a significant contribution alongside conventional academics. Like many of our colleagues in 'support' roles, we are well connected with the academic community. We work in partnership with researchers, contributing unique expertise and skills. We have academic credentials. We write papers, books, grant proposals, reports and manuals. We train students and academic staff; manage projects; organize and

# EOSC association

NATA 17 DIC 2020  
GARR FONDATORE  
# MEMBRI ITALIANI

**EOSC Association: Advancing Open Science to accelerate the creation of new knowledge, in education, spur innovation and promote accessibility and transparency**

The European Open Science Cloud (EOSC) initiative will create a research environment with open and seamless services for storage, management and sharing of data

across borders and scientific disciplines by federating

EOSC is being co-created in a series of funded projects

## The EOSC Association for Board

17 August 2021



BOARD OF DIRECTORS  
(PROF. LAVITRANO)

The EOSC Association brings together key stakeholders in the European research environment to agree on strategies for the advancement of Open Science and to optimise the conditions for research outcomes, and ultimately, to make the European Open Science Cloud (EOSC) a reality. EOSC will offer researchers open and seamless services for storing, managing, analysing and re-using research data, and thus accelerate the creation of new knowledge and spur innovation.

In joining us you will:

- Shape the European Open Science Cloud;
- Guide the strategy for the EOSC implementation phase;
- Participate in Advisory Groups and General Assembly meetings;
- Engage in policy dialogues;
- Network with like-minded people.

4 GENERAL  
ASSEMBLY MAY  
23-24

Commons that will not  
lenges worldwide.

13

Task forces

200+

Members and  
observers

Join the Association

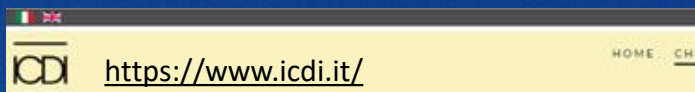


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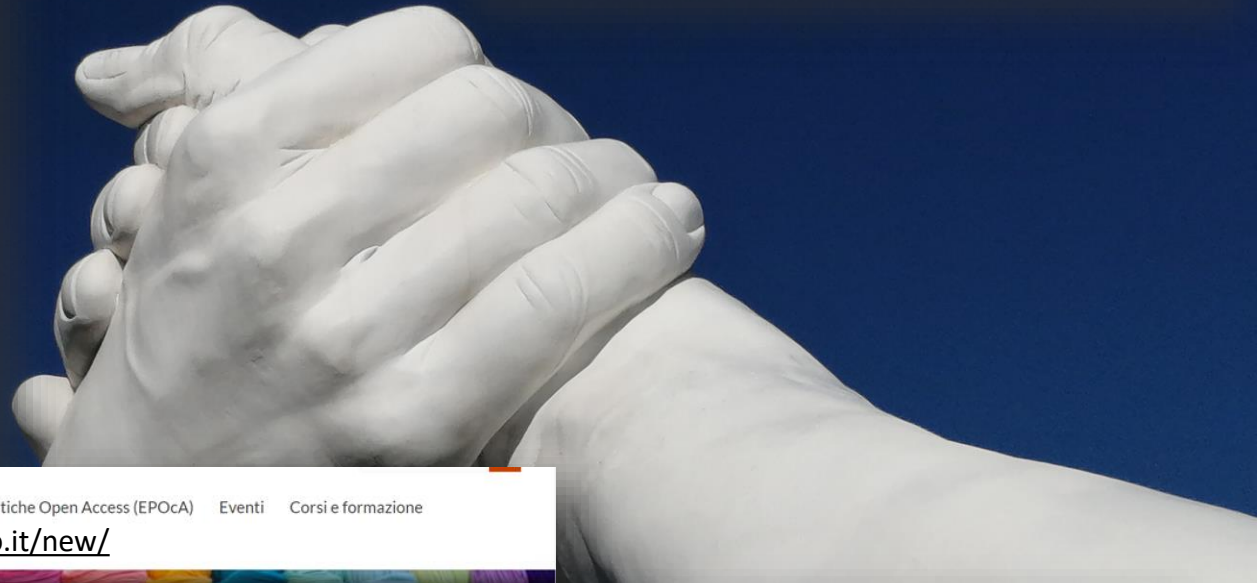
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OA-Italia – Lista di discussione su temi relativi all'accesso aperto

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