

Take away messages

Open Access/Open Science are opportunities, not threats



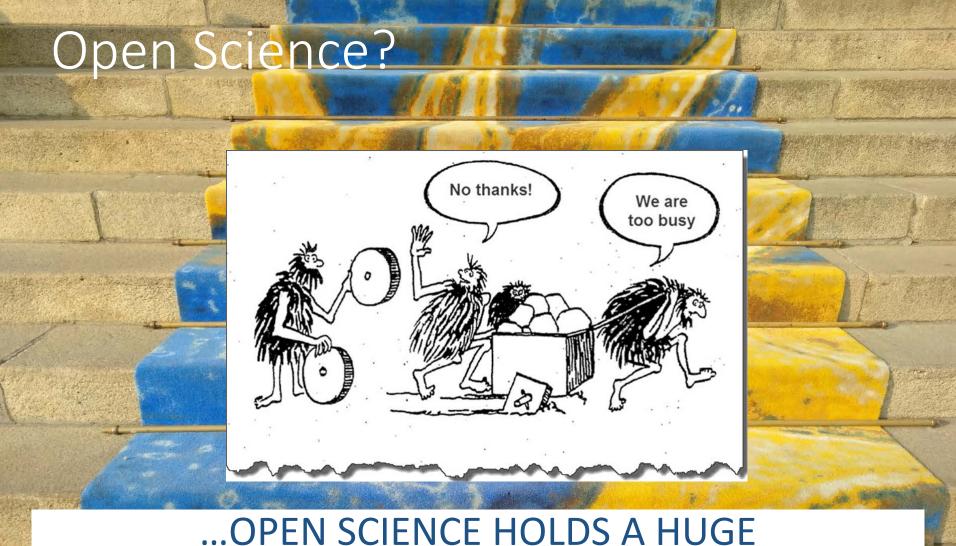
My first talk of the year! Message is going to be that the opposite of 'open science' isn't 'closed science' - it's bad science. ...the opposite of Open Science is «Bad Science», not «Closed Science»

Open Science: a different way to do science, not a set of rules

...barriers are social and cultural not technical...

...take Open Science «one step at a time»

Open Science and Open Innovation are connected



TRANSFORMATIVE POTENTIAL... IF YOU DON'T FOCUS ON ITS REAL VALUE, IT WILL BE SEEN AS THE UNPTEENTH ADMINISTRATIVE BURDEN





New preprint. Comments welcom

Valid reasons not to participate in open science practices

Casper J. Albers*

Abstract

The past years have seen a sharp increase in the attention for open science practices. Such practices include pre-registration and registered reports, sharing of materials, open access publishing and attention to reproducibility of research. Despite the overwhelming amount of evidence highlighting the benefits of open science, some researchers remain reluctant. In this paper, I will outline valid reasons for researchers not to participate in open science practices.

Discussion

There are no valid reasons.

*Heymans Institute for Psychological Research, Grote Kruisstraat 2/1, 9712 Groningen, The Netherlands, c.j.albers@rug.nl

03:54 - 21 feb 2018

https://twitter.com/CaAl/status/96627993602

471 Retweet 990 Mi piace













Valid reasons not to participate in open science practices

Casper J. Albers*

Abstract

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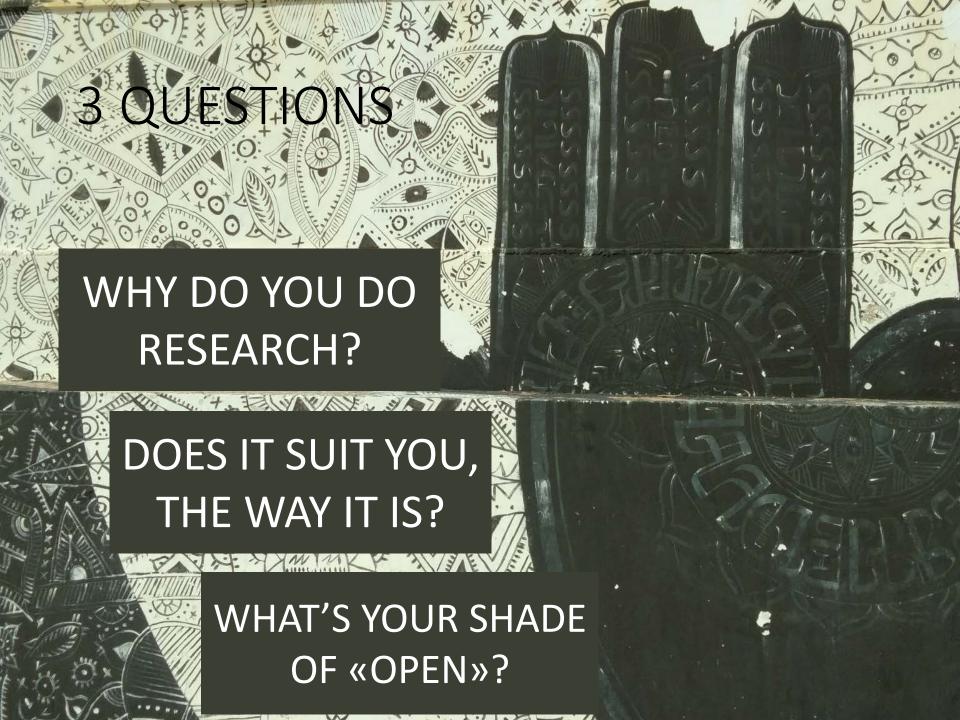
Discussion

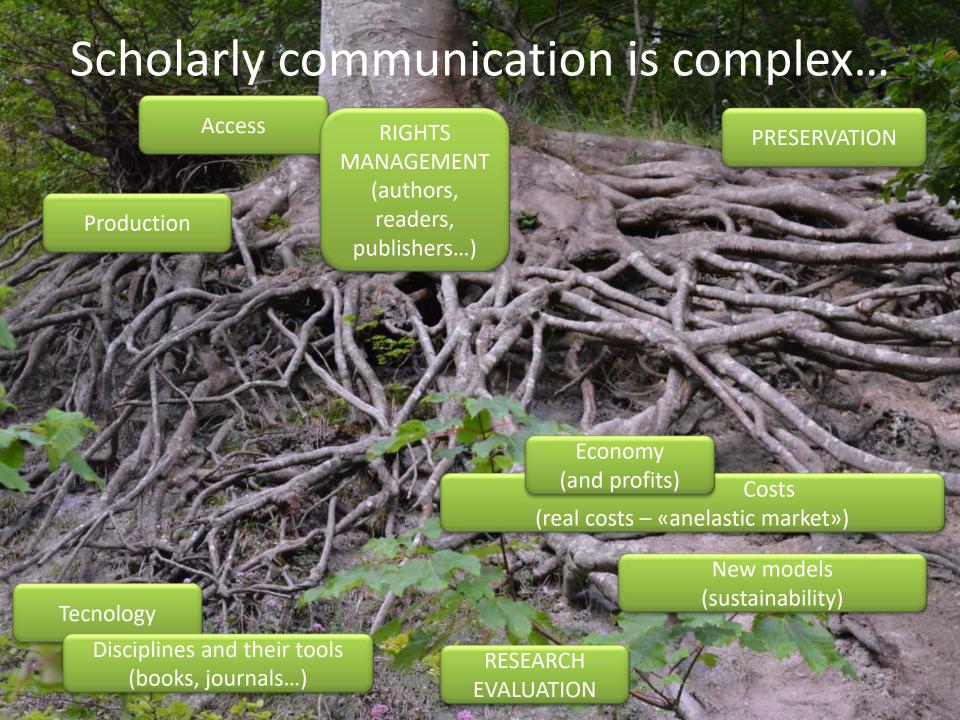
There are no valid reasons.

*Heymans Institute for Psychological Research, Grote Kruisstraat 2/1, 9712 TS Groningen, The Netherlands. c.j.albers@rug.nl











... we are paying commercial publishers to lock up our content ...



Following

The smartest business model ever. Have all of your products and services performed for free by researchers, and then sell it back to them with an unholy markup. Try describing the model to a non-researcher, and they mock us for falling for it.

https://twitter.com/Protohedgehog/status/985439318897410048

Steven Salzberg @StevenSalzberg1

Nature and other Springer journals make all of their money from free labor provided by scientists, who write all the papers and do all of the peer review. And now they are cashing in: "Springer Nature aims to raise 1.2 billion euros in new money in IPO" reut.rs/2qqhp93

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.

Jon Tennant, Open Science: just science done right, Sept.

	Profit	Company	Industry A.Holcombe, Aug. 2018	Holcombe
	10%	BMW	automobiles	BY Alex I
	23%	Rio Tinto	mining	F-km CC.
1	25%	Google	search	p.me/ph4j
	29%	Apple	premium computing	http://w
	35%	Springer	scholarly publishing	
	37%	Elsevier	scholarly publishing	

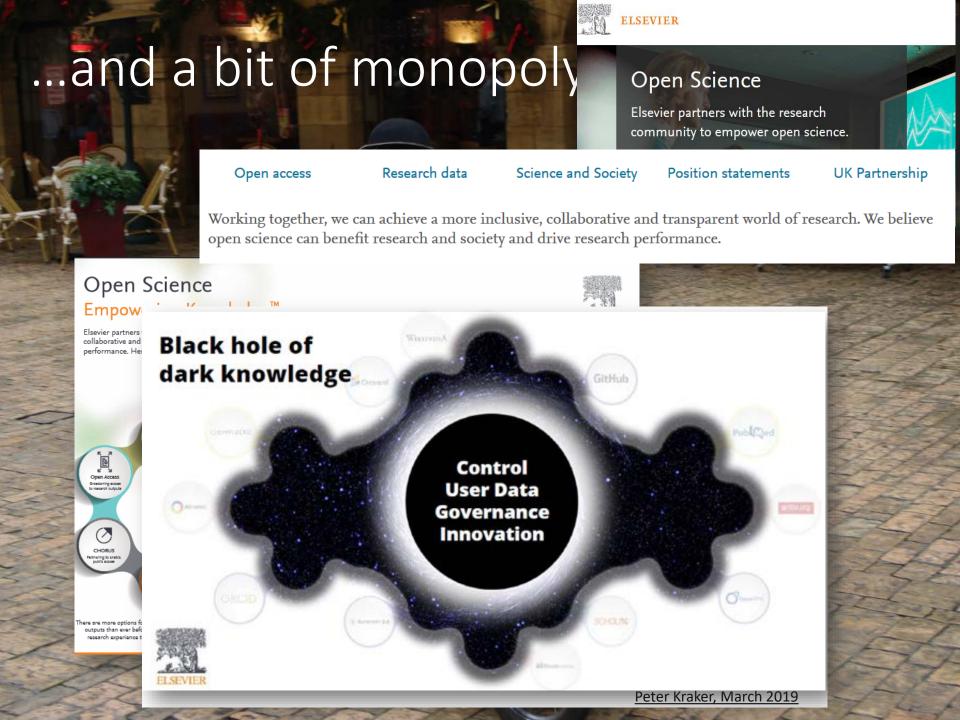
KEY MESSAGE / 2

THERE ARE HUGE
COMMERCIAL INTERESTS
(AND A HUGE WASTE OF
PUBLIC MONEY)

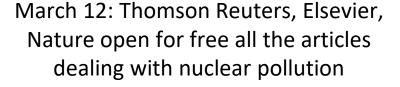


WHY SHOULD YOU PAY TO READ THEM?

www.plos.org



«Access»?



CEN

...the same and the ones that until March 10 were closed behind subscritpions so expensive that Harvard can no longer afford...



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.

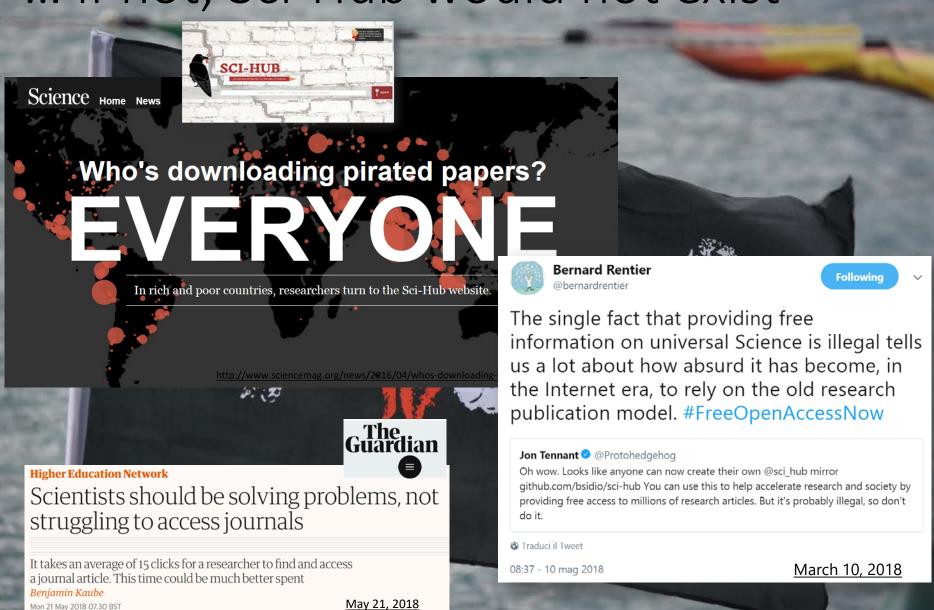
Traduci dalla lingua originale: inglese

15:14 - 4 gen 2018

https://twitter.com/JKamens/status/948920680590004224



... if not, Sci-Hub would not exist



[alternative ways to get a pdf]

HOW TO GET THE PDF?

Alternatives to the publisher version of full-text journal articles

updated: February 20, 2018

UNPAYWALL

Get full-text of research papers as you browse, using Unpaywall's index of 10 million legal, opon access articles. For CHROME | Firefox

http://unparwoll.org/

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

https://seldons.reapilia.org/isi/fireflox/addon/gragle-schelar-button/

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hittes://kspersis.com/

Kopernio

OPEN ACCESS BUTTON

Froc. 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://openacresiduition.org/



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

Mtpc//twitter.com/www.ti/g=%23c.whazpit



HOW TO GET THE PDF?

Alternatives to the publisher version of full-text journal articles

NARCIS

NARCIS provides access to scientific information, including (open access) publications from the repositories of all the Dutch universities, KNAW, NWO and a number of research institutes, datasets from some data archives as well as descriptions of research projects, researchers and research

OSF PREPRINTS

OSF offers acces to over 2 million open access preprints.

DIRECTORY OF OPEN ACCESS JOURNALS

DOAJ effers access to over 10,000 open access journals.

SCIENCE OPEN

Scionce Open contains over 37 million articles, a large part in open

12 SCI-HUB

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

open access.nl

What is open access? In the Netherlands You

Alternative ways to access journal articles

Feb. 27, 2018

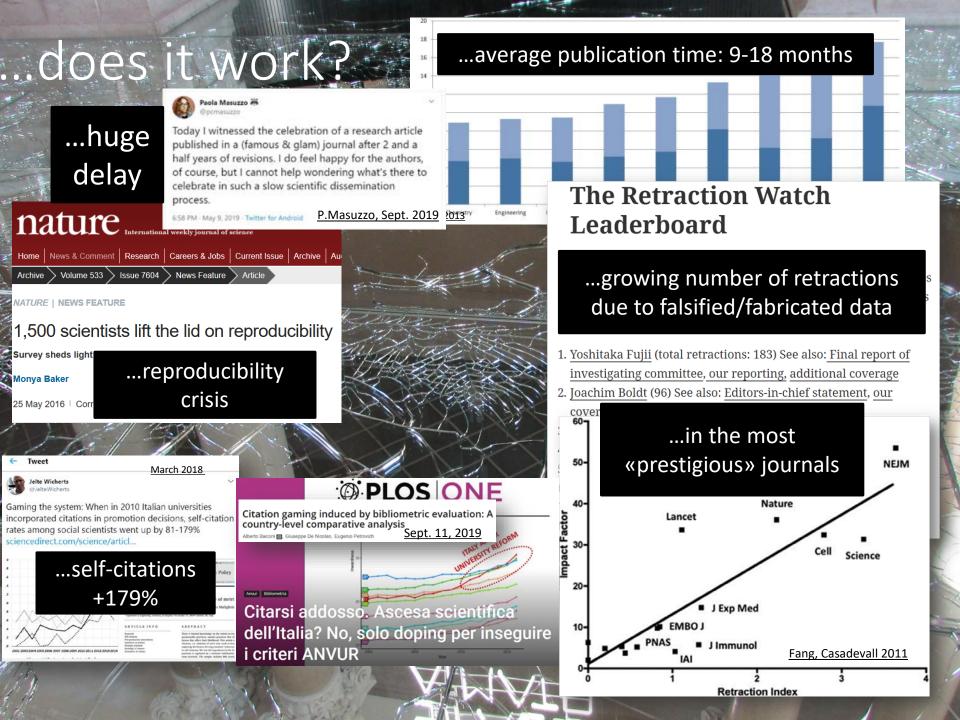
unpaywall

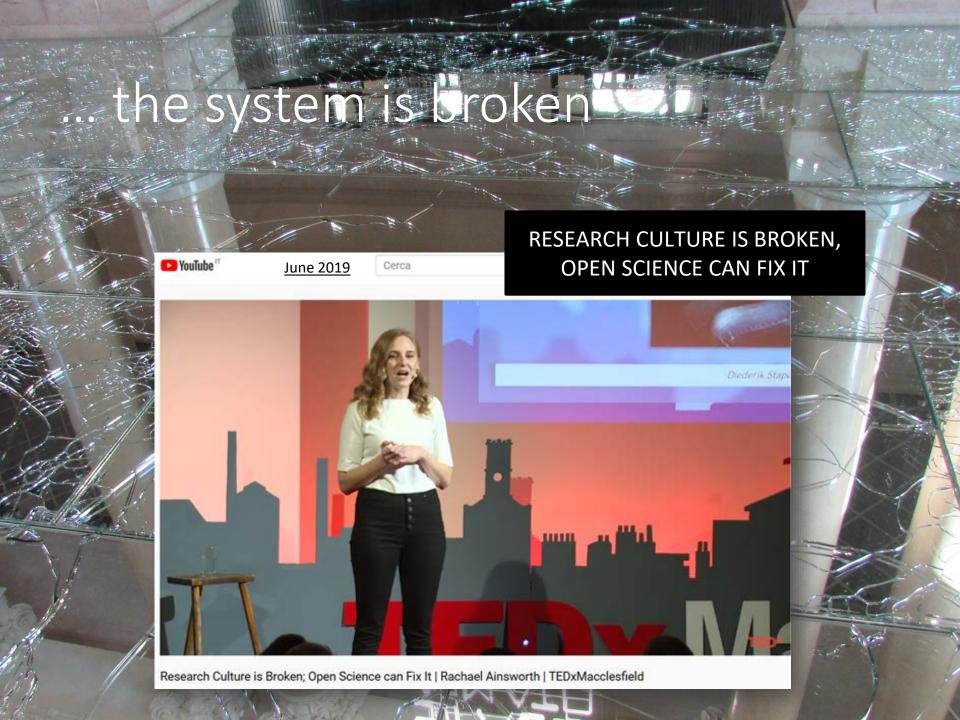
Unpaywall ... but it works only IF authors sefl-archive

An open database of 17.025.907 free scholarly articles.

We harvest Open Access content from over 50,000 publishers and repositories, and make it easy to find, track, and use.

GET THE EXTENSION





[retractions]

The Retraction Watch Leaderboard

Who has the most retraction on methodology), which we to light:

- 1. Yoshitaka Fujii (total retra investigating committee, o
- 2. Joachim Boldt (96) See also coverage

No academic post for fraudster Diederik Stapel, after all

Recently, we reported that social psychologist and renowned data faker Diederik Stapel had found himself a new gig supporting research at

...detected by a PhD candidate told to «shut up and write»



Stem cell researchers investigated for misconduct recommended for roles at Italy's NIH March 14, 2018

Two stem cell scientists who left Harvard University in the aftermath of a messy misconduct investigation may have found



Harvard chiede il ritiro di 31 pubblicazioni del noto cardiologo Piero Anversa

Oct. 16, 2018



Foto: Brigham and Women's Hospital. Piero Anversa, M.D.

Contengono dati falsificati e/o inventati, come riferiscono la Harvard Medical School e il Brigham and Women's Hospital di Boston. Gli studi sotto accusa riguardano la possibilità – dimostrata falsa – di ıtilizzare le staminali per riaenerare il cuore

De Telegraaf: Continue reading →

JAMA

3. Diederik Stanel (58) See also: our coverage

4. Does scientific misconduct

cause patient harm? The case

7. S of Joachim Boldt

If you wanted of misconduct retractions we iournals hardl analysis and e

97 retractions. If you cut them off, the systematic reviews shows increased risk of mortality and renal failure

sion of the studies by Boldt et al, Zarychanski et at hydroxyethyl starch was associated with a ly increased risk of mortality (risk ratio [RR],

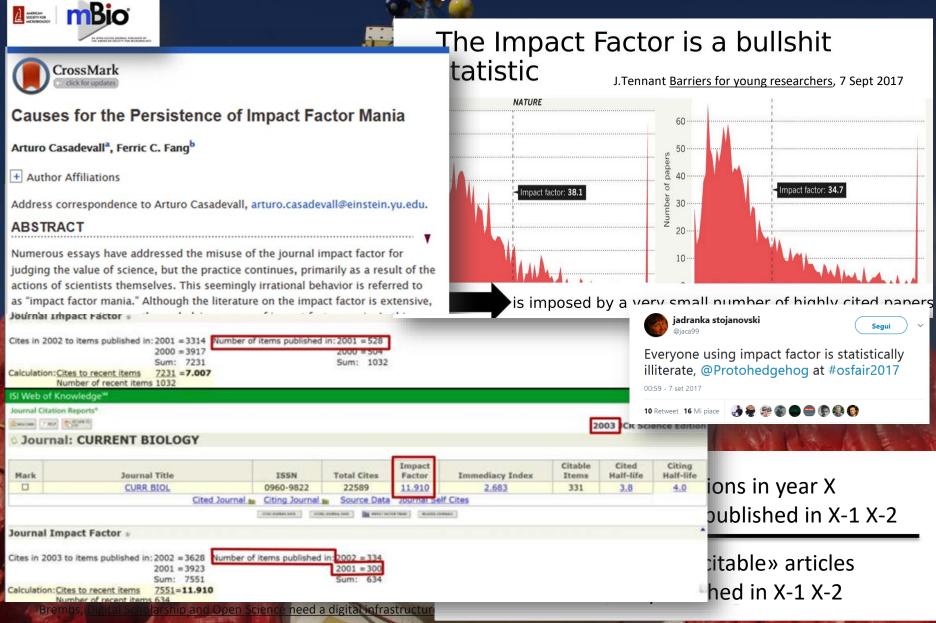
> ds, there was an increased risk of death and kidney ng those given HES:

II, 1.02-1.17) and renal failure (RR, 1.27; 95% CI

by Zarychanski et al highlights the potentially important and adverse effect of scientific misconduct.

ndidates

... what about Impact Factor?



... evaluation? «Obsession»

ROYAL SOCIETY

The future of scholarly scientific communication https://goo.gl/p6Vz

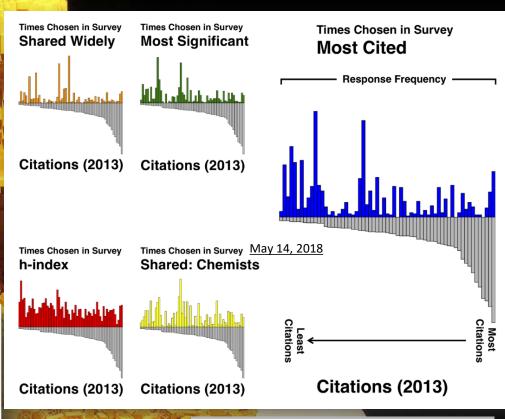
"Not only are we failing to provide the right incentives, we are actually providing perverse ones."

As long as journal impact factors retain some role in the career development, journals should publish the distribution of their citations. The participants strongly supported the adoption of the San Francisco Declaration on Research Assessment (DORA) by publishers, funders and universities. There was a call for open citation data (rather than having to rely on proprietary sources).

Goodhart's Law: "when a measure becomes a target, it ceases to be a good measure."

Metrics are subject to manipulation, so we should look carefully not only at the number, but what it is that number purports to measure "Poople game

"People game the system at every letter and this risks the loss of valuable research."



ROARS ROARS 28 marzo 2018
Return On Academic ReSearch
means published better

Impact or perish. L'ossessione per l'impatto delle pubblicazioni scientifiche genera frodi e condotte abusive



Following

The prospectus for the IPO of Springer Nature

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

12

the

inc

Sp

13:38 - 5 mag 2018

Prospectus dated April 25, 2018

SPRINGER NATURE

Prospectus

for the public offering

rch, with a High-Quality Brand Portfolio, Global Scale ong Growth in the Open Access Publishing Market.

tant, as market participants increasingly differentiate in to a journal's impact factor. Our open access portfolio ich as Nature Communications, Scientific Reports and positioning us well to command premium APCs from

Springer Prospectus Apr. 25

22 Retweet 28 Mi piace



PROFESSIONAL SUMMITS RANKINGS IOBS

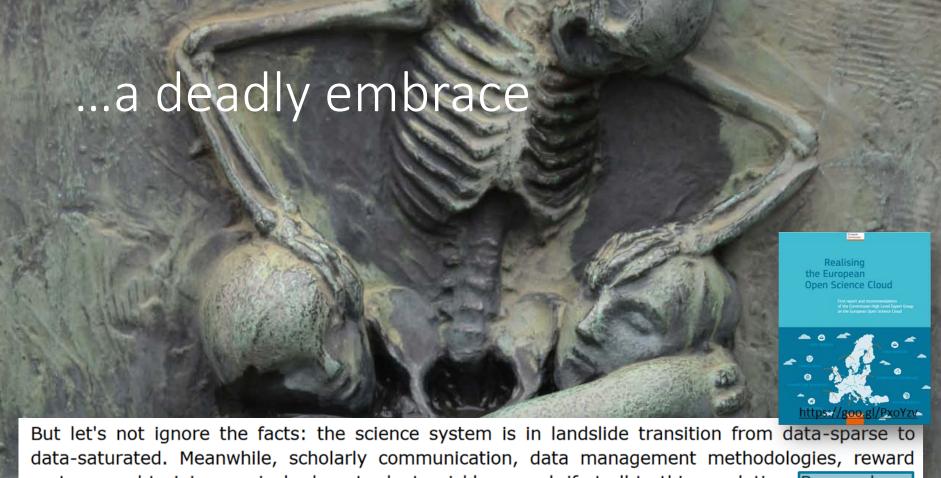
Linking impact factor to 'open access' charges creates more inequality in academic publishing

10.2.5 Increasing Share in Revenues from

Springer Nature was one of the by open access, which provides us addit 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 funded by authors and/or their funders of the relevant research manual manual manual more than 10 years, long before DORA, *Nature* editorials have expressed concerns about the overuse

stemming from APCs are in the short- to medium-term supplementary to the subscription business, no 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.



But let's not ignore the facts: the science system is in landslide transition from data-sparse to 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 Access articles are solve only a fraction of the problem. Neither 'open research data' alone will do. W

WE ARE ON THE WRONG RO

pinal Cord <u>Sept. 7, 20</u>3

Guest Editorial

Publication pressure and scientific misconduct: why we need more open

cord injury. First, there is incremethodology. These range fro neurological diseases, the lack contamination of neural cell lipoor reliability of published reparticipant numbers are low). published research findings me commonly low in the biomedi surprisingly then, the rate of the surprisingly then, the rate of the surprisingly them.

This research culture can lead to cost- and corner-cutting, with hasty publication of irreproducible results and poor-quality work—it's an era in which scientists can fall prey to the temptation to do whatever they can get away with in order to publish. This leads to scientific misconduct, commonly defined as 'fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in

is slow and problematic [3]. Second, the number of papers retracted

from the peer-reviewed literature is also increasing [4]. Third, the is an over-reliance on a scientist's publication metrics (numbers, journal impact factors, citation numbers) for progression, promo prizes, and research grants. Indeed, gaming the metrics of scientant occupational requirement for scientists, journal staff and university administrators. Publications now contain more spin (reliance on findings which are not justified by the statistics) and more liberal use of words such as 'novel' [5]. These trends are deby an unhealthy culture in which it can be more important to progression as the progression of the progression of

deep flaws in the current systems of peer review.

- PUBLISHING «A RESULT» HAS BECOME MORE IMPORTANT THAN PUBLISHING A CORRECT RESULT
 - GAMING METRICS IS AN OCCUPATIONAL REQUIREMENTS FOR SCIENTISTS





...a bit of inspiration...

The best thing about **Internet** is that it's **open**. In every field **it let us** share and innovate.

In science, **OPENNESS IS ESSENTIAL.**

Open science doesn't mean ignoring economic reality.

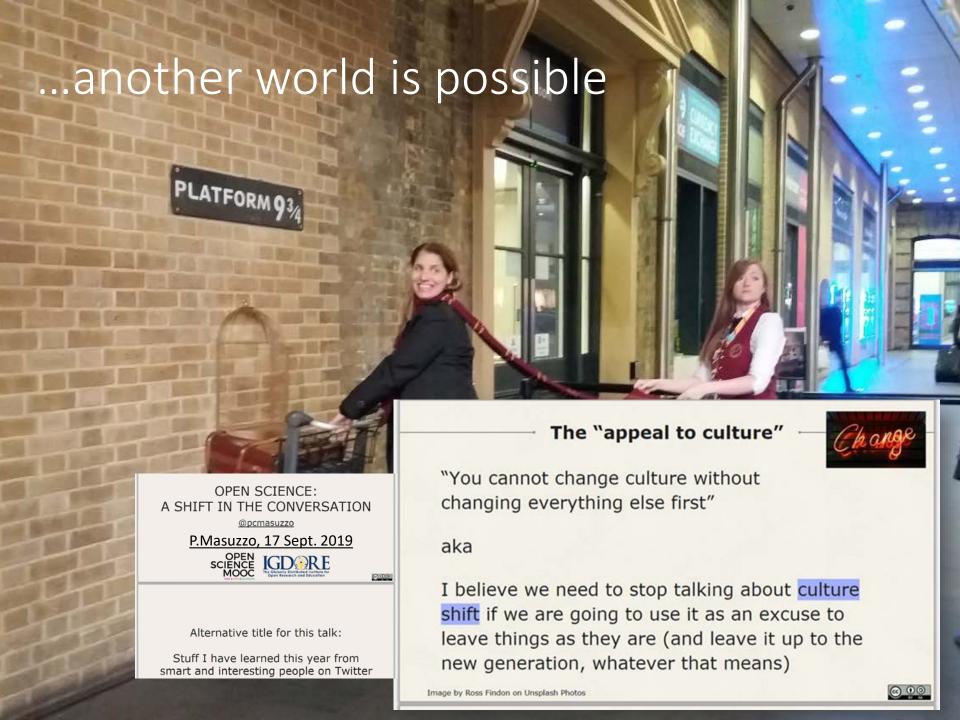
Of course we need business models to be sustainable. But that doesn't mean we have to carry on doing things the way they have always been done.

So, wherever you sit in the value chain, whether you're a researcher or an investor or a policy maker, my message is clear:

let's invest in collaborative tools that let us progress...

Let's tear down the walls that keep learning sealed off.

And let's make science open.



Open Definition



"Open data and content can be freely used, modified, and shared by anyone for any purpose"

http://opendefinition.org/

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



Open Science Depends on Open Minds



Neelie Kroes ☑

Iscriviti 851



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







Open Science = Open Outputs + Open Infrastructure

Access, reuse & discoverability



Researcher behaviour





C. Mac Callum, UKSG, April 2018



The future of science is Open

START YOUR RESEARCH TRAINING NOW

USE FOSTER TO:

FOSTER taxonomy

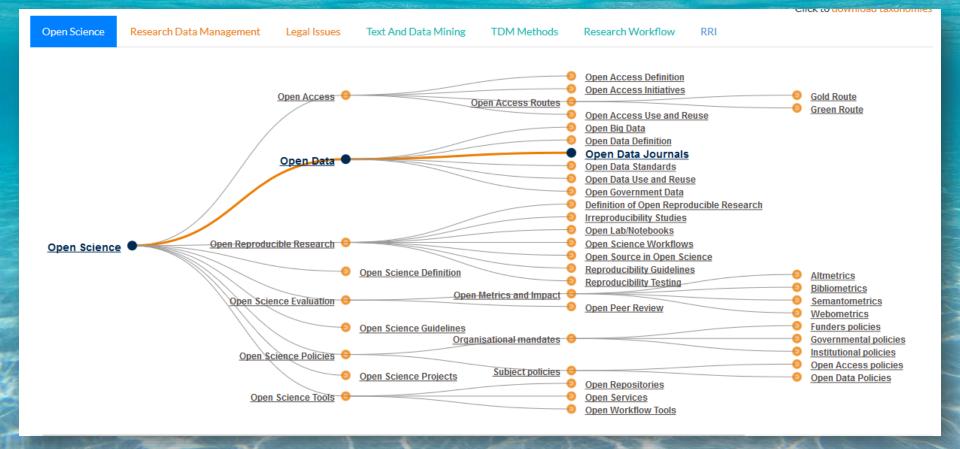












Principles of Open Scholarship

Clip s

Tony Ross-Hellauer, 201

Transparency

Accountability

Inclusivity

Responsibility

Community & Collaboration

Visibility

Rigour

Equality

Public good

Reproducibility

Findability

Accessibility



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

OPEN SCIENCE:

JUST SCIENCE

SCIENCE

DONE RIGHT

Jon Tennant 📀

107.241 Tweet

Following

[Open] Science is a Human Right

Article 27

- Everyone has the right freely to participate in the cultural life of the community, to enjoy the arts and to share in scientific advancement and its benefits.
- Everyone has the right to the protection of the moral and material interests resulting from any scientific, literary or artistic production of which he is the author.
- Toda persona tiene derecho a participar libremente en la vida cultural de la comunidad, a gozar de las artes y a participar en el progreso científico y en los beneficios que de él resulten.
- 2) Toda persona tiene derecho a la protección de los intereses morales y materiales que le correspondan por razón de las producciones científicas, literarias o artísticas de que sea autora.

https://www.un.org/en/universal-declaration-human-rights/

Sept. 21, 2019

@protohedgehog

Open Science and SDG







SUSTAINABLE GOALS DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

























13 CLIMATE ACTION



14 LIFE BELOW WATER













Healthy research culture

Egoism

Irreproducibility

Impact factor-based academic assessment Open Science

Reproducibility

Fair academic assessment

Transparency





Scientific impact and the quest for visibility

Ralitsa R. Madsen 🔀

First published: 29 August 2019 | https://doi.org/10.1111/febs.15043

Aug., 2019

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.



Cameron Neylon, Twitter thread; Image by Cyle De Guzman on Unsplash Photos





Contextualizing Openness

Situating Open Science



Edited by Leslie Chan

Angela Okune, Rebecca Hillyer, Denisse Albornoz, and Alejandro Posada University of Ottawa Press

Stephen Curry 📀

64.823 Tweet

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

Sept. 19, 2019

Following

ı eag

Rese Univ



Thanks for this great job Alperin, the situation has not changed until now... French Africa contributes under 1% in what Guédon call the « big scientific conversation »



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

#osfair2017



Let's please stop living in the past



the 17th century construct of a research paper

Image from https://www.teepublic.com, Eric the clown, Seinfeld

advertising



research outputs now encompass far more than can be expressed in

scholars deserve to be given credit for the many contributions they

make above and beyond articles (peer-reviews, data, code, protocols...)





The normative system of Science

Norm

Communality

Open Sharing

Universalism

Evaluate research on own merit

Disinterestedness

Motivated by knowledge & discovery

Organized skepticism

Consider all new evidence, even against one's prior work

Hugely inspired by Brian Nosek

Counternorm

Secrecy

Closed

Particularism

Evaluate research on reputation

Self-interestedness

Treat science as a competition

Organized dogmatism

Invest career promoting one's own theories, findings



We need to hear more #failtales



Akiko Iwasaki

A student in the audience told another student who told me what he said, "my experiments never work out like that, I don't feel like I belong in science" after hearing my talk. This was shocking and devastating to me and really made me think. (1/4)

246 AM - Aug 29, 2019 - Twitter Web App

556 Seturets 1.8K Lives

But it's more than just the way science is presented in talks.

It's also about how we write about it: stories to promote the results we got in a few pages that hide the biggest truth of them all:

#failtales are everywhere.

And that's absolutely OK.

When we reject failure, we create a culture of punishment, artificial rewards, and scientific bias. When we embrace failure, we cultivate a culture of acceptance, tolerance, and learning. Which one would you prefer?

ire as an Intrinsic Part of Science #Failtales - Jon Tennant



OPEN SCIENCE: A SHIFT IN THE CONVERSATION @pcmasuzzo

@ 00



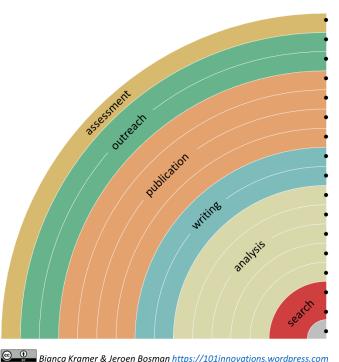
P.Masuzzo, 17 Sept. 2019

Alternative title for this talk:

Stuff I have learned this year from

Open science rainbow...

You can make your workflow more open by ...



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



DOI: 10.5281/zenodo.1147025

Open science: roadmap

Open Science and its role in universities:

May 29 2018

A roadmap for cultural change

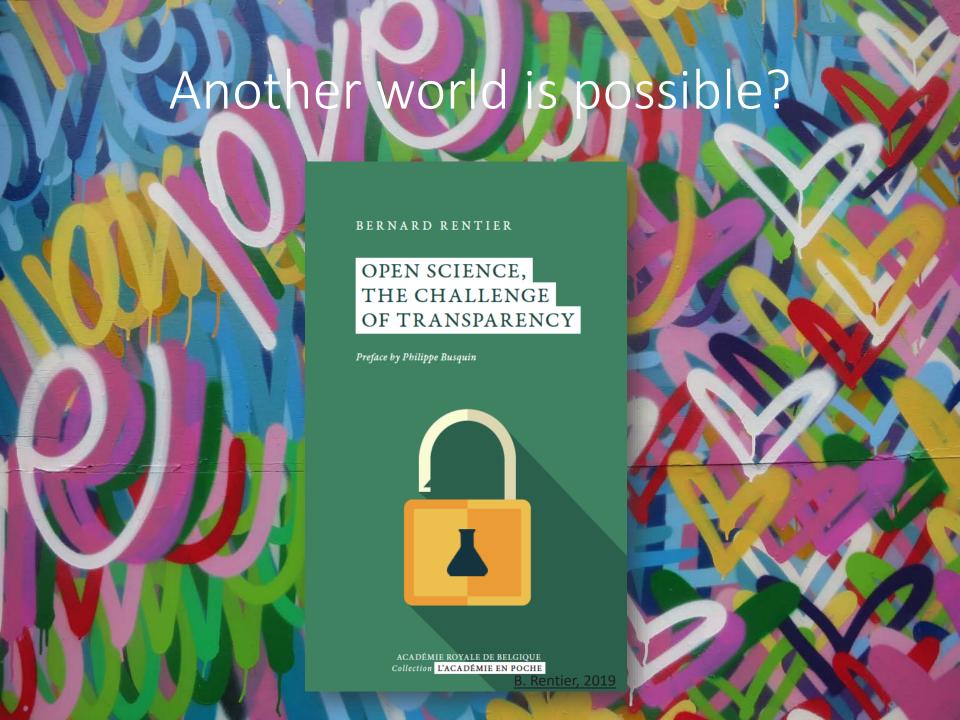
Open Science: Opportunities, challenges and cultural change in universities

Open Science is not about dogma; it is about greater efficiency and productivity, more transparency and a better response to interdisciplinary research needs

the importance of Open Science where "new know created through global collaborations involving to of people from across the world and from all walk The Commissioner therefore called for drawing u

t. A transition to Open Science is a process, not a single event. Such a ansition at the institutional level, we suggest universities should develop

transition will take years to effect, not months or days. To a programme of cultural change, which is necessary to



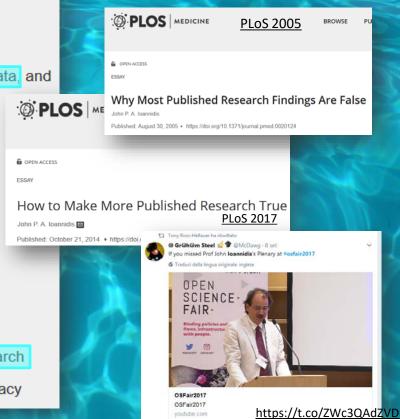


NATIONAL PLAN OPEN SCIENCE
WORKING GROUP OPEN SCIENCE (RECTORS, RESEARCHERS, PUBLISHERS, LIBRARIANS,
RESEARCH INFRASTRUCTURES)

...another way of doing research

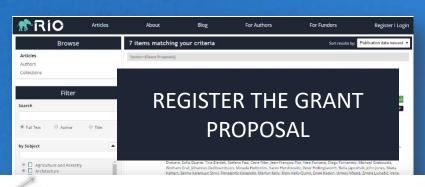
Box 1. Some Research Practices that May Help Increase the Proportion of True Research Findings

- 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



...another way of opening up









https://aspredicted.org/

Create a new AsPredicted pre-registration

See your existing AsPredicteds (e.g. approve, make public)

PRE-REGISTER YOUR STUDY

Your email address (used in AsPredicted)

SEE OWA

What's an AsPredicted?

It is a standardized pre-registration that requires only what's necessary to separate exploratory from confirmatory analyses. You will easily generate a pre-registration document that takes less effort to evaluate than it takes to evaluate the published study itself.



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, userids, or passwords.

What if things don't go "as predicted"

You can just say so in the paper:

- "Contrary to expectations, we found that..."
- · "Unexpectedly, we also found that..."
- "In addition to the analyses we pre-registered we also ran..."
- "We encountered an unexpected situation, and followed our Standard Operating Procedure" (.pdf)

...another way of being reproducible



The Turing Way

Welco

1. Introduction

- 2. Reproducibility
- 3. Open Research
- 4. Version Control
- 5. Collaborating on GitHub/GitLab
- 6. Credit for reproducible research
- 7. Research Data Management
- 8. Reproducible Environments
- 9. Testing
- Reviewing
- 11. Continuous Integration
- 12. Reproducible Research with Make
- 13. Risk Assessment

Welcome to the Turing Way

The Turing Way is a lightly opinionated guide to reproduci



Our goal is to provide all the information that researchers need at the start of their projects to ensure that they are easy to reproduce at the end.

This also means making sure PhD students, postdocs, Pls, and funding teams know which parts of the "responsibility of reproducibility" they can affect, and what they should do to nudge data science to being more efficient, effective, and understandable.

A bit more background

Reproducible research is necessary to ensure that scientific work can be trusted. Funders and publishers are beginning to require that publications include access to the underlying data and the analysis code. The goal is to ensure that all results can be independently verified and built upon in future work. This is sometimes easier said than done. Sharing these research outputs means understanding data management, library sciences, sofware development, and continuous integration techniques: skills that are not widely taught or expected of academic researchers and data scientists.

The Turing Way is a handbook to support students, their supervisors, funders, and journal editors in ensuring that reproducible data science is "too easy not to do". It will include training material on version control, analysis testing, open and transparent communication with future users, and build on Turing Institute case studies and workshops. This project is openly developed and any and all questions, comments and recommendations are welcome at our GitHub repository: https://github.com/alan-turing-institute/the-turing-way.

...another way of asses

CONSIDER SIGNING DORA!!!

Latest news

Research output

- · Research activity
- Publications
- Datasets
- · Open source
- Funding

2. Research Process

- Stakeholder engagement/citizen science
- Collaboration & interdisciplinarité
- Research integrity
- · Risk management

Service & Leadership

- Leadership
- · Academic standing
- · Peer review
- Networkina

4. Research Impact

- Communication & dissemination
- · IP (patents, licenses)
- · Societal impact
- · Knowledge exchange

5. Teaching and supervision

- Teaching
- Mentoring
- Supervision

6. Professional **Experience**

- Continuing professional development
- · Project management
- Personal qualities

B. Rentier, June 2019

« MATRIX, NOT **METRICS** »

https://sfdora.org/

MULTIPLE CRITERIA

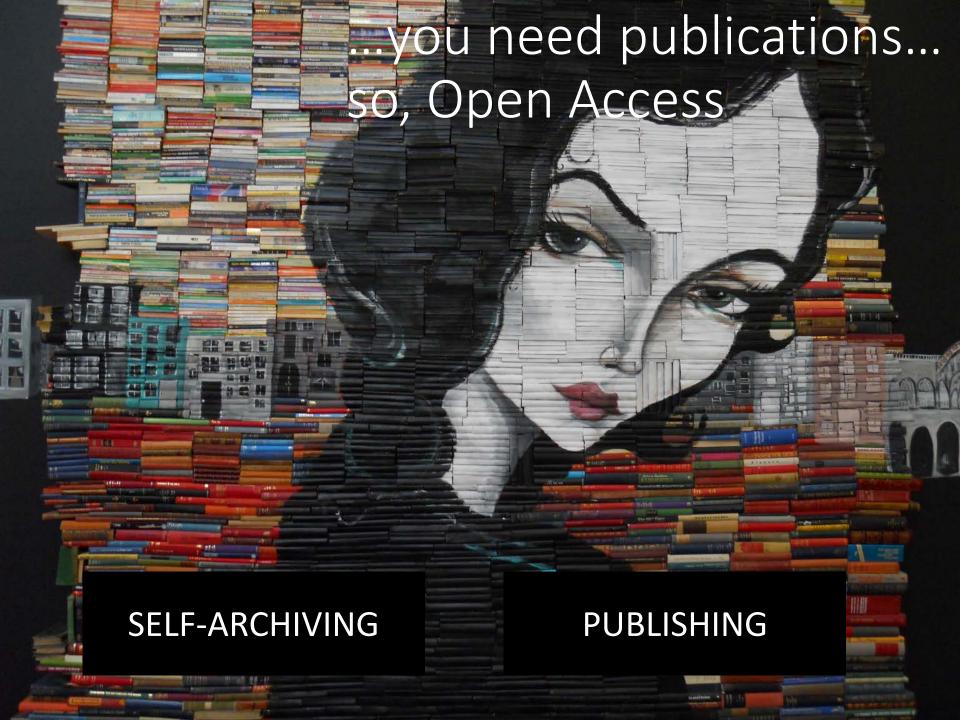
Open Science will never prevail without a thorough revisiting of the way evaluations of researchers are conducted

Bernard Rentier

OAI11 - CERN-UNIGE Workshop on Innovations in Scholarly Communication Geneva, June 20, 2019

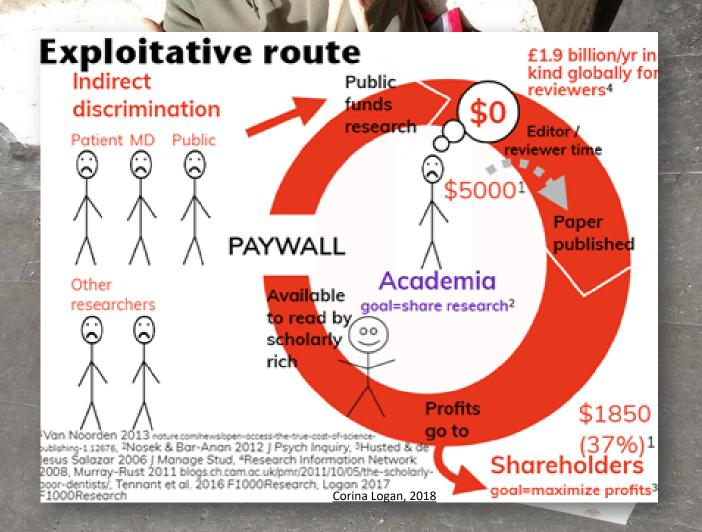
OS-CAM, the Career Assessment Matrix

	R1	R2	R3	R4
Research output	+	++	+++	++++
Research Process	+	+++	++++	++++
Service & Leadership		+	+++	++++
Research Impact	+	++	+++	++++
Teaching and supervision	(++)	+	++	++++
Professional Experience		+	+++	++++

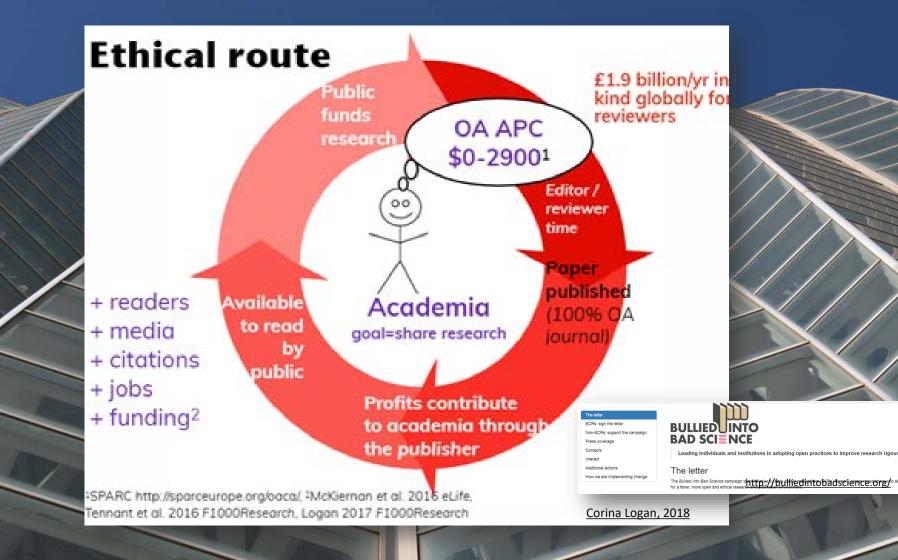




Why do we need Open Access? [or: where does he money go?]



Why do we need Open Access?







REVISED IN FEB. 2019 POSTPONED TO JAN 2021 uthors retain copyright of their publication with no estrictions. All publications must be published under n open license, preferably the Creative Commons ttribution Licence CC BY. In all cases, the license oplied should fulfil the requirements defined by the erlin Declaration;

The Funders will ensure jointly the establishment

ements for the services ben Access journals and provide:

NO MORE HYBRID JOURNALS

TOPPED APCs

WHEN [AND ONLY WHEN]

APCs ARE DUED, ISTITUTION PAYS

AUTHORS RETAIN COPYRIGHT VIA CC BY

pen Access journals or the Funders will, in a entives to establish and riate; support will also s infrastructures where

cess publication fees or universities, not by

mainiqual researchers, it is acknowledged that all scientists should be able to publish their work Open Access even if their institutions have limited means:

- When Open Access publication fees are applied, their funding is standardised and capped (across Europe);
- The Funders will ask universities, research organisations, and libraries to align their policies and strategies, notably to ensure transparency;
- The above principles shall apply to all types of scholarly publications, but it is understood that the timeline to achieve Open Access for monographs and books may be longer than 1 January 2020;
- The importance of open archives and repositories for hosting research outputs is acknowledged because of their long-term archiving function and their potential for editorial innovation;
- The 'hybrid' model of publishing is not compliant with the above principles;
- The Funders will monitor compliance and sanction non-cor
 - REACTIONS
 - DEBATE

[the biggest inhibitor is the system itself...] **Research

Advertise

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March 4th, 2019

Robert-Jan Smits: the future for Plan S

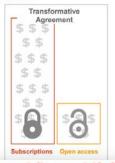
Smits said he had not been surprised by the pushback Plan S has received from some researchers. He quoted two pieces of advice he received as envoy. First: universities and researchers are "coin-driven", and mainly motivated by winning funding. Second: "The biggest inhibitor to change and modernisation in the academic system is the academic system itself."

But he said he thinks some of the arguments against Plan S have been "unfair". He reserved his greatest ire for accusations that Plan S will prevent Coalition S-funded researchers from collaborating with people who do not face restrictions on where and how they can publish.

"I thought that scientists work together across borders to extend the frontiers of knowledge and solve problems for society," he said. "If now scientists tell me that they will not cooperate anymore if they are not allowed to publish behind a paywall, I think we have a serious problem with the role of science in our society and we probably have got to have a more fundamental debate."

[transformative agreemen

Transformative agreements get control over hybrid costs



Subscription funds are converted to open access publishing funds



14th BERLIN OPEN ACCESS CONFERENCE

ALIGNING STRATEGIES TO ENABLE OPEN ACCESS

Harnack House, Berlin, 3-4 December 2018

Participants from 37 nations and five continents, representing research performing and research funding institutions, libraries and government higher education associations and rectors' conferences, associations of researchers and other open access initiatives gathered at

the 14th Berlin Open Access Conference held 3-4 December 2018 in Berlin. They affirmed that there is a strong alignment among the approaches taken by OA2020, Plan S, the Jussieu Call and others to facilitate a full and complete transition to open access. The statement that

follows represents the strong consensus of all of those represented at the meeting.



Costs and workflows shift from package level to the individual article level



FINAL CONFERENCE STATEMENT 14th Berlin Open Access Conference We are all committed to authors retaining their copyrights,

We are all committed to complete and immediate open access,

We are all committed to accelerating the progress of open access through transformative agreements that are temporary and transitional, with a shift to full open access within a very few years. These agreements should, at least initially, be cost-neutral, with the expectation that economic adjustments will follow as the markets transform.

Publishers are expected to work with all members of the global research community to effect complete and immediate open access according to this statement.

... another way of writing

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Au thorea

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Creating and Managing Projects

Adding Links

Files and Version Control

Navigating the Dashboard and My Projects

Open Science Framework Help

http://help.osf.io/m/projects

News: Overleaf partners with the RSC

Sverleaf

Collaborative Writing and Publishing

The easiest way to create, edit and publish your research.

Start

Heaving trouble or don't know where to start? Those articles will walk you through how to navigate and use the Open Science Framework. Go back to the OSF Enter a keyword or topic to search OSF Guides * Creating and Managing Projects Topics + Projects and Components 5 + Contributors and Permissions 2 + Management 6: Other Resources FAGB Create a Project Create a Project Create a Project from a Template

Delete a Project

Delete a Component

Contributors and Permissions



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CHAPTER 4

A visual proof that neural nets can compute any function

What this book is about
On the exercises and problems
Using neural nets to recognize
handwritten digits
How the backpropagation

Neural Networks and Deep Learning

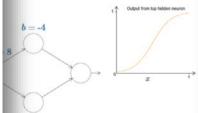
algorithm works
Improving the way neural

pute any function

US Off are deep neural networks.

feel for how components in the network work, let's focus on the diagram below, click on the weight, the rag the mouse a little ways to the right to increase w. You rediately see how the function computed by the top hidde thanges:

Intel® Occumentation Project Imputer Sequence Computing



arnt earlier in the book, what's being computed by the

hidden neuron is $\sigma(wx+b)$, where $\sigma(z)\equiv 1/(1+e^{-z})$ is the sigmoid function. Up to now, we've made frequent use of this

to all knowledge. Learn more

https://hypothes.is/

Michael Nielsen e il «deep learning»



It aims to be an agile tool for both expioratory computation and data analysis, and prevides a platform to support reproducible research, since all inputs and outputs may be stored in a one-to-one way in notebook documents.

There are two components:

 The IPythen Notebook web application, for interactive authoring of literate computations, is which explanatory test, mathematics, computations and rich media output may be combined input and output are stored in persistent cells that may be edited in place.
 Plain text documents, called matchooks, for recording and distributing the results of the rich



congestion that was significantly associated with NBP use (multivariable OR = 0.24, exact 95% Cl 0.10 to 0.57 for cases vs. controls, p = 0.0006).

Conclusions: Use of NBP does not produce specific histological alveolar bone alterations in the absence of overt BRONJ disease.

Introduction

Bisphosphonate-related osteonecrosis of the jaw (BRONJ) is the first and most studied[1] of a number of bone disorders that have been linked to the use of different classes of medications, including antiresorptive drugs. These osteonecrotic processes have been recently gathered under the term of Medication-related osteonecrosis of the jaw.

Although the pathogenesis of BRONJ is likely to be multifactorial,[3][4][5] prolonged therapy with antiresorptives and NBP in particular seems to influence predispose to development of clinical signs of BRONJ. [6] Too use of corticosteroids are additional risk factors. [7][8][9] These antiresorptive agents are worldwide administered in m

Definition Rating

★★★★ 5.00 | 1 Votes

Definition O Jul 29, 2018

Bisphosphonate related osteonecrosis of the jaw (BRONJ)

Reference

A Bedogni, V Fusco, A Agrillo, G Campisi. (2012). Learning from experience. Proposal of a refined definition and staging system for bisphosphonate-related osteonecrosis of the jaw (BRONJ) doi:10.1111/j.1601-0825.2012.01903.x

Bisphosphonate related osteonecrosis of the jaw (BRONJ) is an adverse drug reaction described as the progressive destruction and death of bone that affects the mandible or maxilla of patients exposed to the treatment with nitrogen-containing bisphosphonates, in the absence of a previous radiation treatment

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Article Rating

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Article Jul 29, 2018 a comy

https://doi.org/10.32388/191

Definitions

Bisphosphonate related (BRONJ)

Medication related osteonecrosis of the jaw (MRONJ)

osteonecrosis (NICO)







https://www.geios.com

Exposure to antiresorptive therapy with bisphosphonates does not induce histological changes in human alveolar iawbone

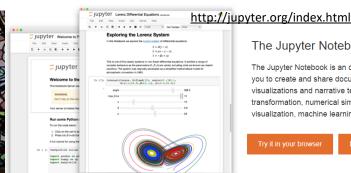
PRFPRINT AND OPEN **NOTEBOOK**



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 visil immediately beneath the input.

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



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The Jupyter Notebook is an open-source web applica you to create and share documents that contain live visualizations and narrative text. Uses include: data visualization, machine learning, and much more

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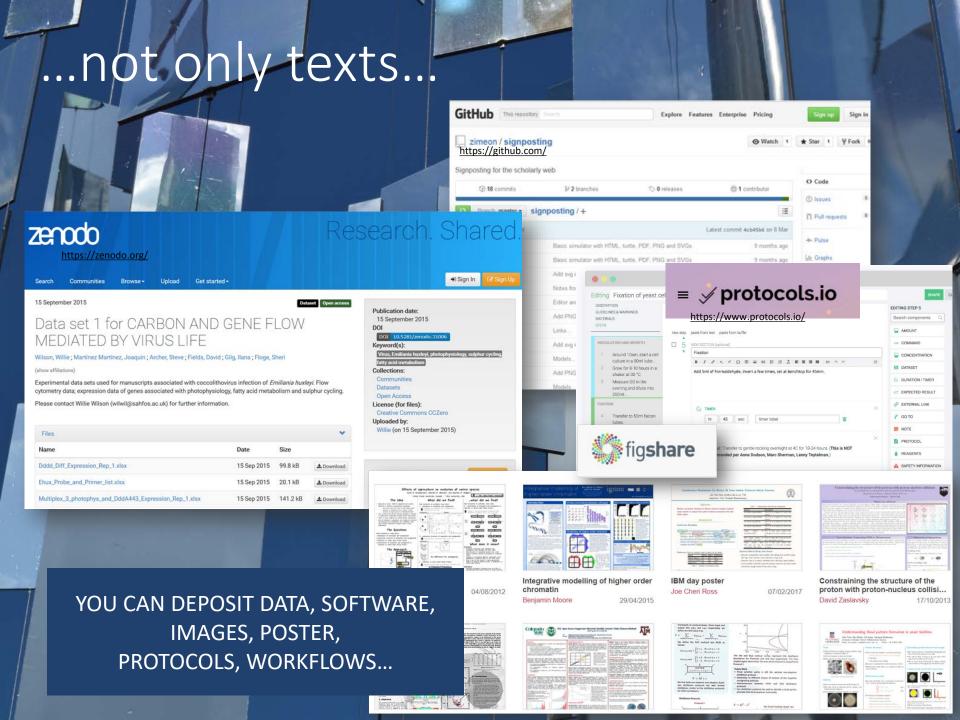
le 6: Preprints do not ply low quality

le 7: Preprints support rapid evaluation of ntroversial results

Rule 8: Preprints do not typically preclude publication

Rule 9: Preprints can further inform grant review and academic advancement

Rule 10: Preprints—one shoe does not fit all



. FAIR data.

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METADATA, PERSISTENT IDENTIFIERS...

ONTOLOGIES, STANDARDS

TO KNOW MORE

Comment | OPEN

The FAIR Guiding Principles for scientific data management and stewardship

Mark D. Wilkinson, Michel Dumontier [...] Barend Mons™

Abstract

There is an urgent need to improve the infrastructure supporting the reuse of scholarly data. A diverse set of stakeholders—representing academia, industry, funding agencies, and scholarly publishers—have come together to design and jointly endorse a concise and measureable set of principles that we refer to as the FAIR Data Principles. The intent is that these may act as a guideline for those wishing to enhance the reusability of their data holdings. Distinct from peer initiatives that focus on the human scholar the fark fundings but specific emphasis

TO KNOW HOW



Reference: Viachos, E., Larsen, A.V., Zurcher, S., Hansen, A.F. (2019). Introduction: In: Homistrand, K.F., den Boer, S.P.A., Viachos, E., Martinez-Lavanov, P.M., Hansen, K.K. (Eds.).

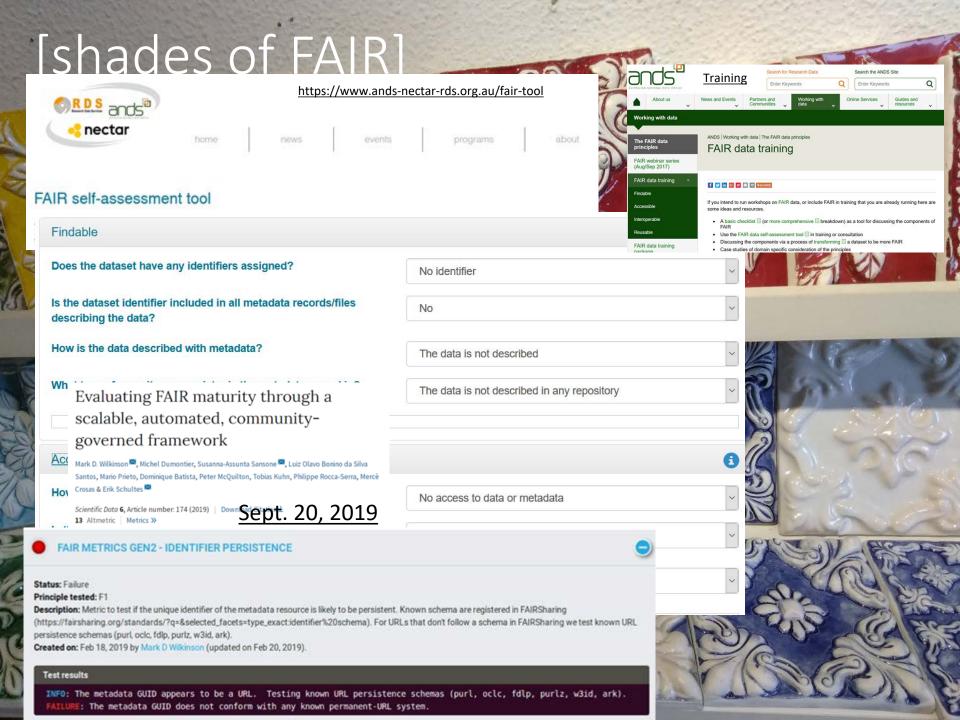


Reference: Martinez-Lavanchy, P.M., Hüser, F.J., Buss, M.C.H., Andersen, J.J., Begirup, J.W. (2019). FAIR Principles'. In: Holmstrand, K.F., den Boer, S.P.A., Vlachos, E., Martinez-Lavanchy, P.M., Hansen, K.K. (Eds.), Researc

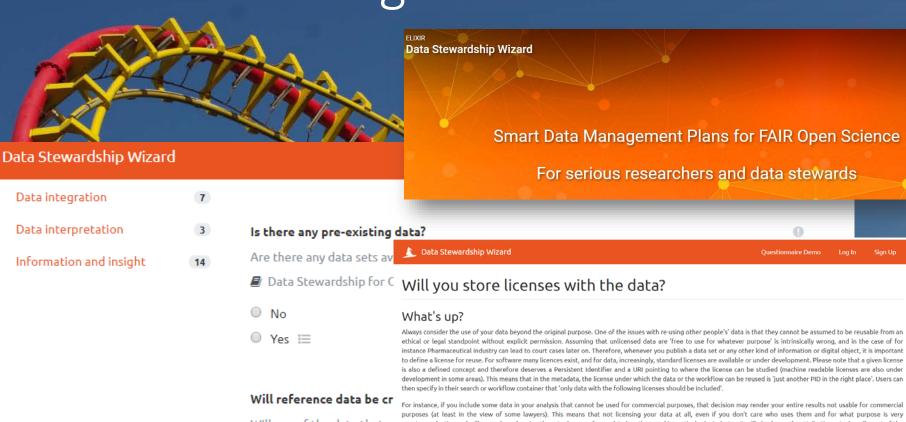


Reference: den Boer, S.P.A., Buss, M.C.H., Hüser, F.J., Smed, U. (2019). 'Data Management Plans'. In: Holmstrand, K.P., de Boer, S.P.A., Viachos, E., Martinez-Lavanch th. P.M., Hansen, K.K. (Eds.), Research Data

https://vidensportal.deic.dk/RDMelearn



FAIR Data management wizard



Will any of the data that y others)?

- Data Stewardship for C
- No

ethical or legal standpoint without explicit permission. Assuming that unlicensed data are 'free to use for whatever purpose' is intrinsically wrong, and in the case of for instance Pharmaceutical industry can lead to court cases later on. Therefore, whenever you publish a data set or any other kind of information or digital object, it is important to define a license for reuse. For software many licences exist, and for data, increasingly, standard licenses are available or under development. Please note that a given license is also a defined concept and therefore deserves a Persistent Identifier and a URI pointing to where the license can be studied (machine readable licenses are also under development in some areas). This means that in the metadata, the license under which the data or the workflow can be reused is 'just another PID in the right place'. Users can

counterproductive and will severely undermine the actual reuse of your data by others and in particular by industry. It will also lower the attribution-rate (usually part of the license conditions) and thus the citation and the impact score of your data.

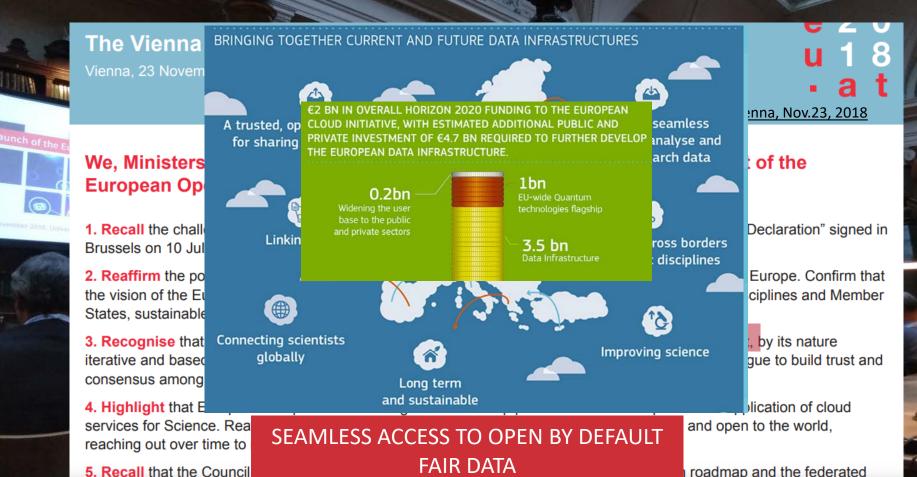
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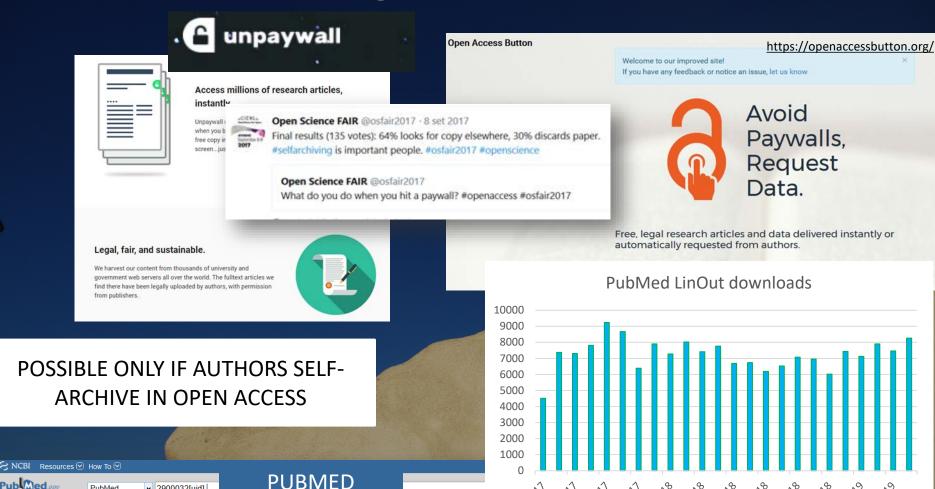
[AS NOW WE HAVE THE EOSC!]



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.

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.

...enabling services



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

PubMed

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National Library of Medicine

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

LINKOUT

<u>Saglio G¹, Camaschella C, Giai M, Serra A, Guerrasio A, Peirone B, Gasparini P, Mazza U, Ceppellini R, Biglia N, et al.</u> Author information

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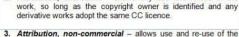
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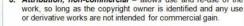


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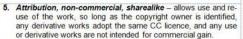








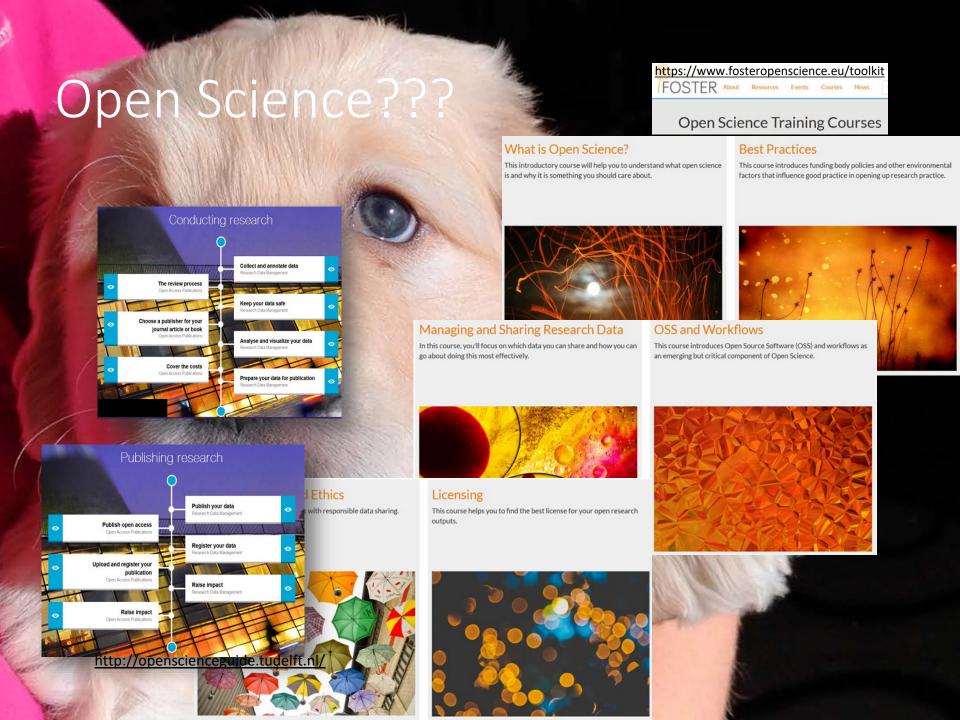






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Open Science: 2 messages

OPEN



Science was founded on openness.

We closed it down.

It's time to open it up again.

J. Tennant Oct. 16, 2019

