

DEFUND THE JOURNALS!

Björn Brembs
Universität Regensburg
<http://brembs.net> - @brembs

And fund repositories instead

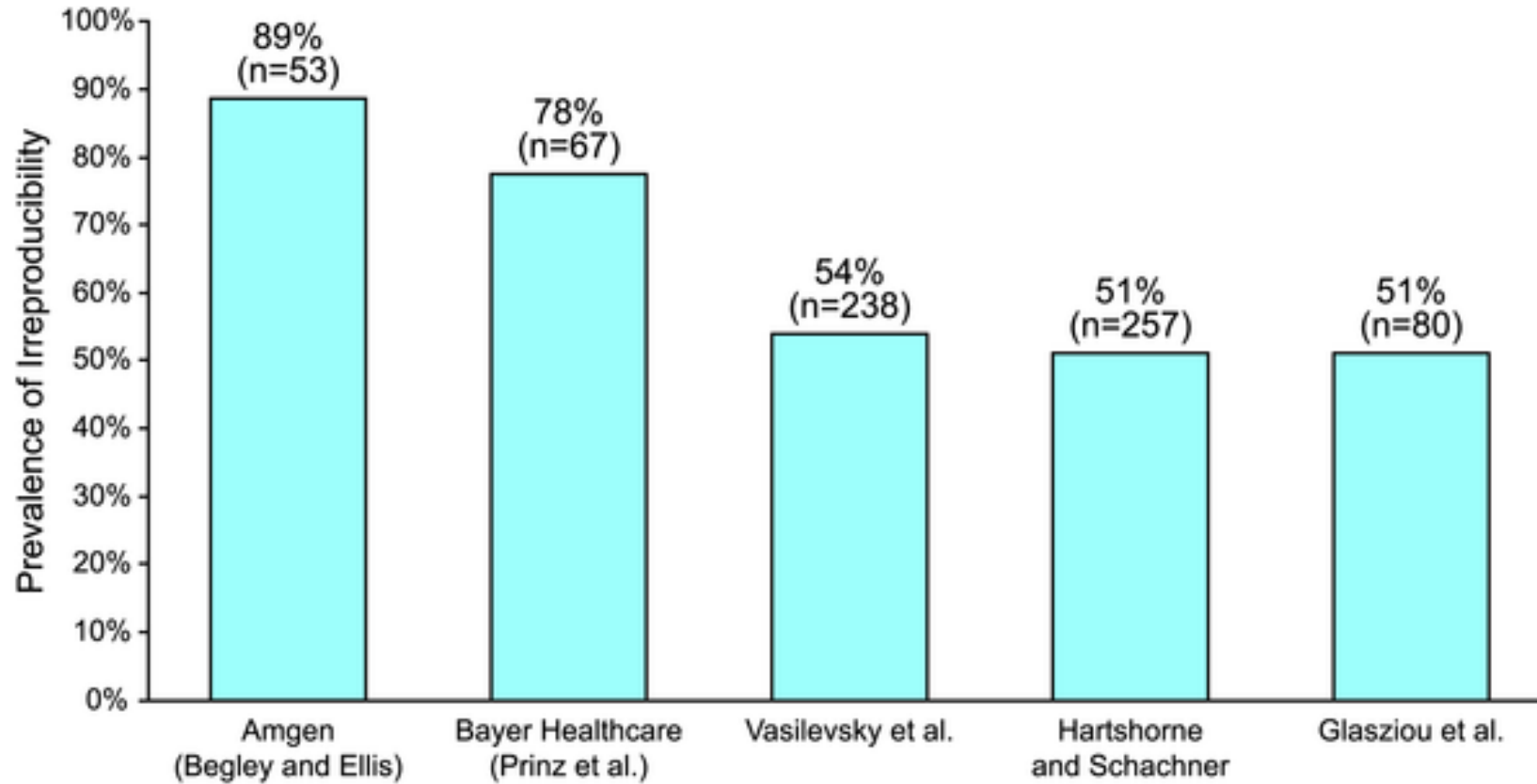


RELIABILITY
AFFORDABILITY
FUNCTIONALITY

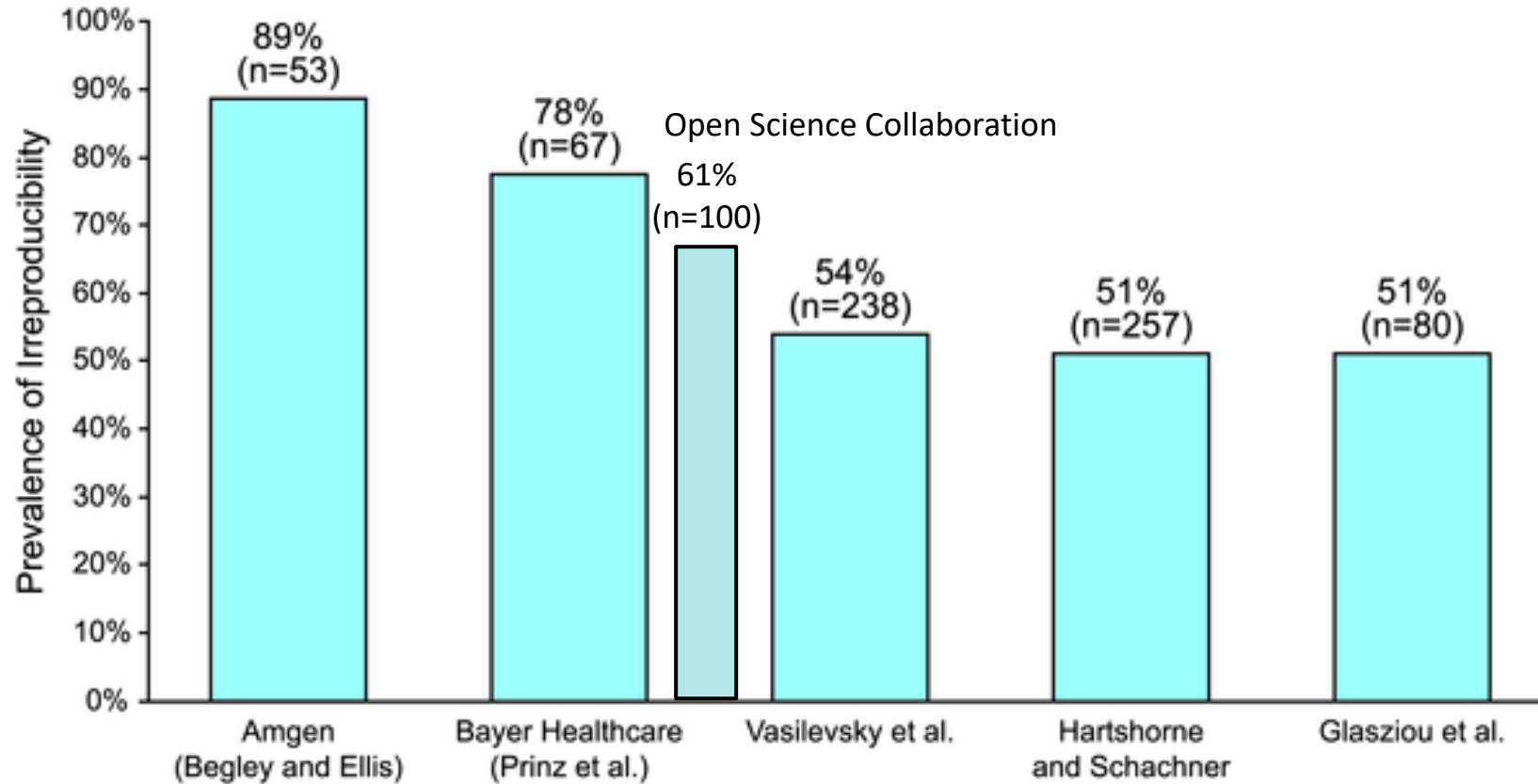


**The disaster that is scholarly
information infrastructure**

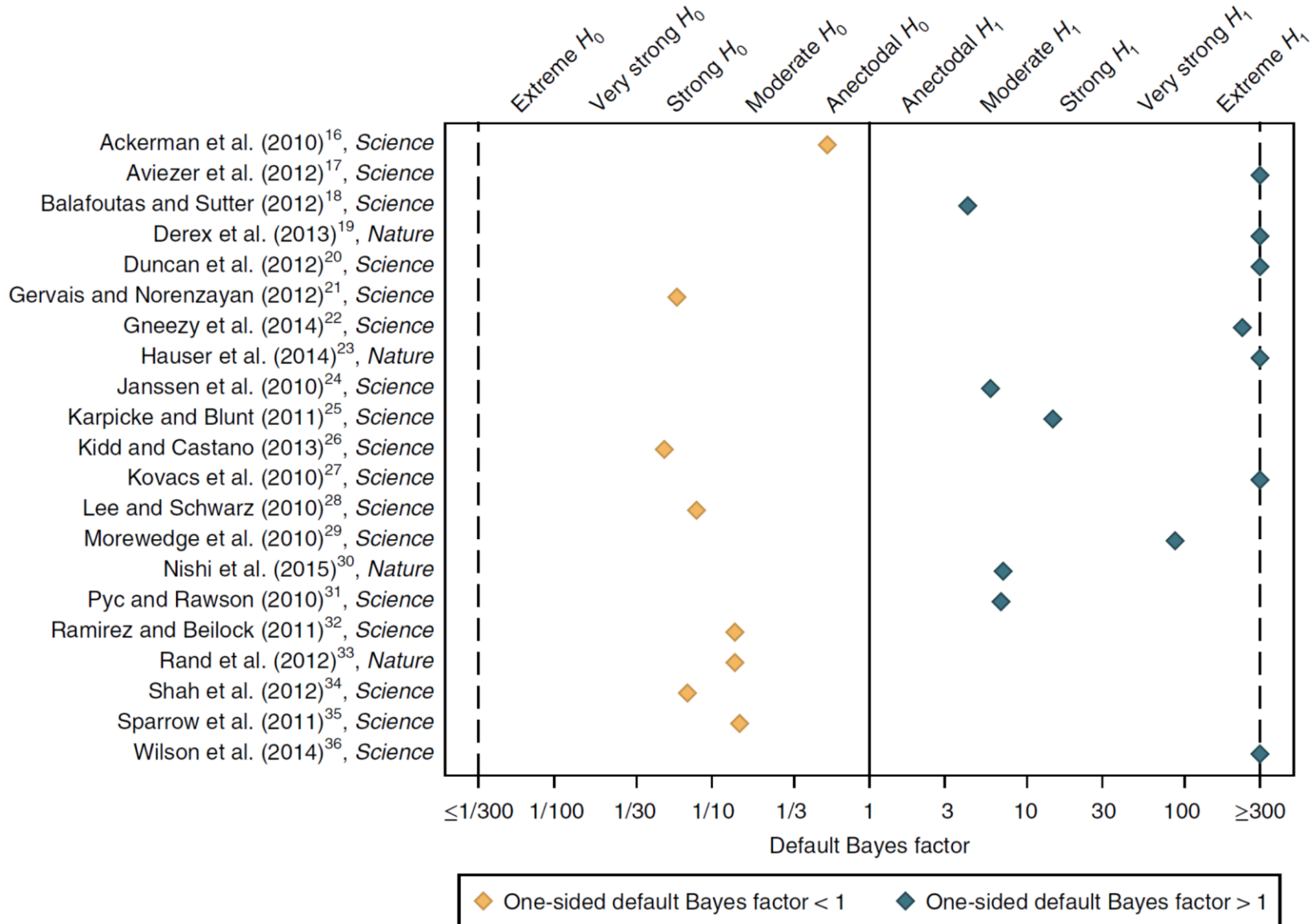
Irreproducibility



Irreproducibility

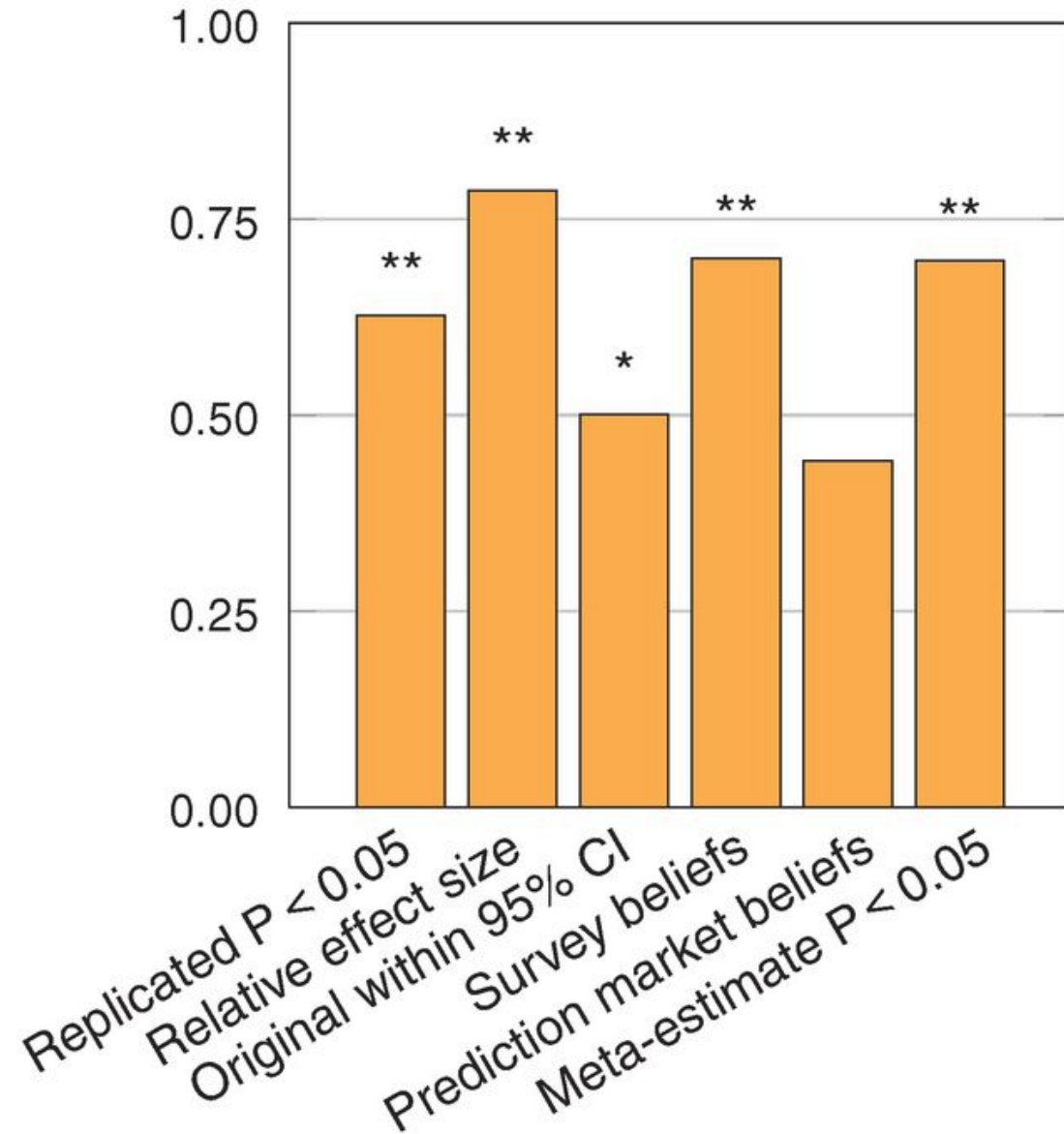


Social Sciences



Successful:
13/21: 62%

Economics



Successful:
11/18: 61%

Cancer Research

COMPLETED

50 experiments

INITIATED

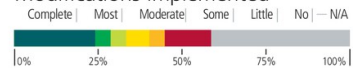
87 experiments

DESIGNED

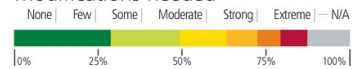
193 experiments

BARRIERS

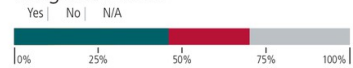
Modifications implemented



Modifications needed



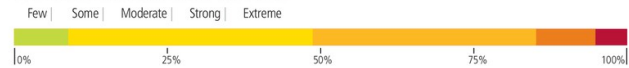
Reagents shared



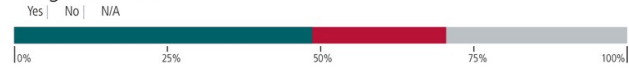
Authors helped



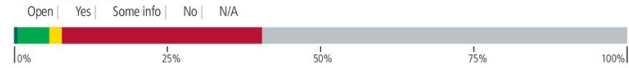
Protocol clarifications needed



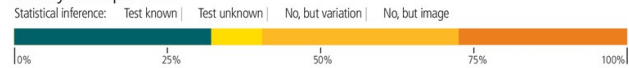
Reagents offered



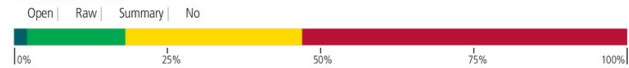
Code shared



Analysis reported



Data shared



Cancer Research

COMPLETED
50 experiments

INITIATED
87 experiments

DESIGNED
193 experiments

BARRIERS

Total number

Papers

Experiments

Effects

All outcomes

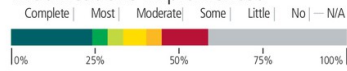
23

50

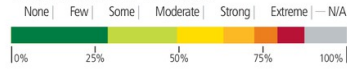
158

188

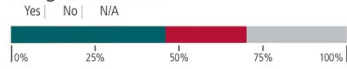
Modifications implemented



Modifications needed



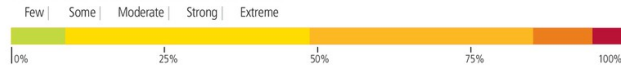
Reagents shared



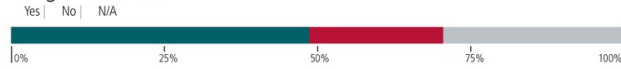
Authors helped



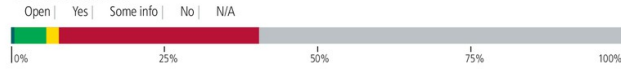
Protocol clarifications needed



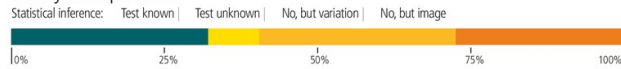
Reagents offered



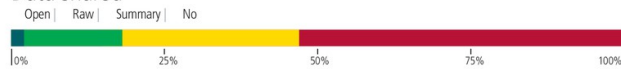
Code shared



Analysis reported



Data shared



Cancer Research

COMPLETED
50 experiments

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87 experiments

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BARRIERS

Total number

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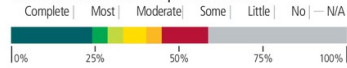
23

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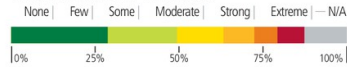
158

188

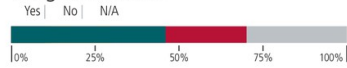
Modifications implemented



Modifications needed



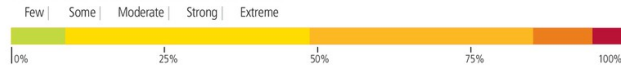
Reagents shared



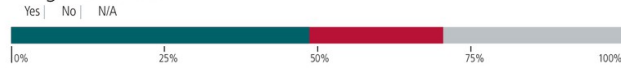
Authors helped



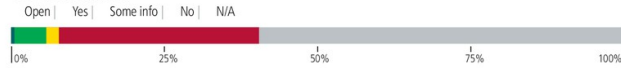
Protocol clarifications needed



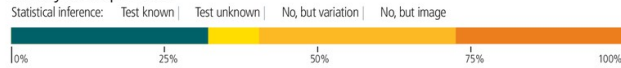
Reagents offered



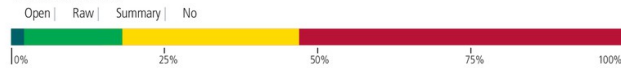
Code shared



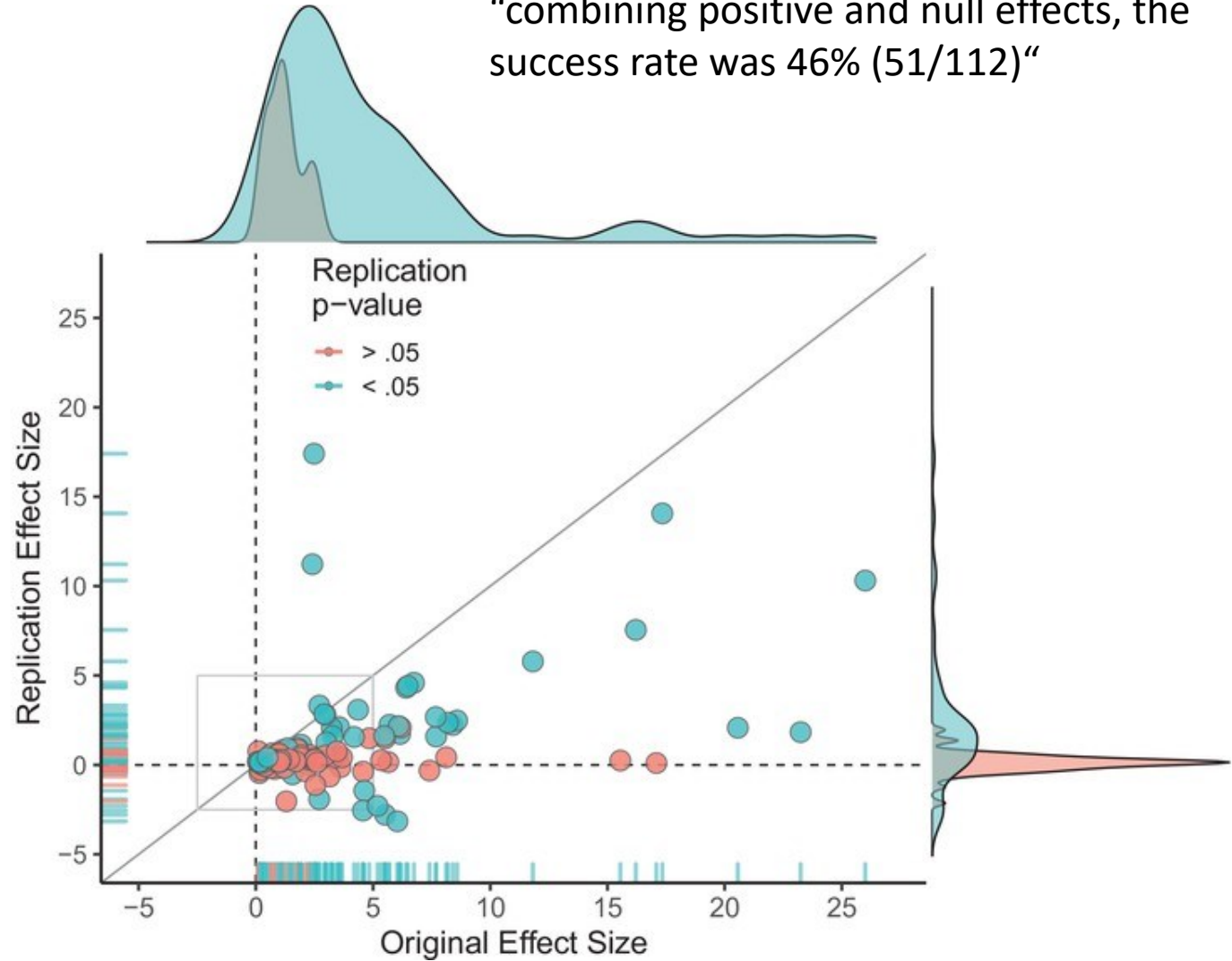
Analysis reported



Data shared



“combining positive and null effects, the success rate was 46% (51/112)”



MICHAEL SCHULSON

SCIENCE 04.20.2018 09:00 AM

Science's "Reproducibility Crisis" Is Being Used as Political Ammunition

A report from the National Association of Scholars takes on the reproducibility crisis in science. Not everyone views the group's motives as pure.

Trump's budget director pick: “Do we really need government-funded research at all”

Mick Mulvaney suggested Zika science is uncertain, so we shouldn't bother to fund it.

By Julia Belluz | @juliaoftoronto | julia.belluz@voxmedia.com | Updated Jan 24, 2017, 11:07am EST

f   SHARE



Rep. Mick Mulvaney, R-S.C., asked during Congress' Zika budget gridlock: “Do we really need government funded research at all.” | Tom Williams/CQ Roll Call



Office of Management and Budget



The Office of Management and Budget (OMB) serves the President of the United States in overseeing the implementation of his vision across the Executive Branch. Specifically, OMB's mission is to assist the President in meeting his policy, budget, management and regulatory objectives and to fulfill the agency's statutory responsibilities.

Mick Mulvaney

Director of OMB



Mick Mulvaney is the current director of the Office of Management and Budget (OMB). He was nominated to the post by President Donald J. Trump in December 2016 and confirmed by the Senate on February 16, 2017.

Massive cuts to science and medicine in Trump budget

Roger Collier

CMAJ June 12, 2017 189 (23) E812-E813; DOI: <https://doi.org/10.1503/cmaj.1095437>

NEWS | 11 March 2019

Trump seeks big cuts to science funding – again

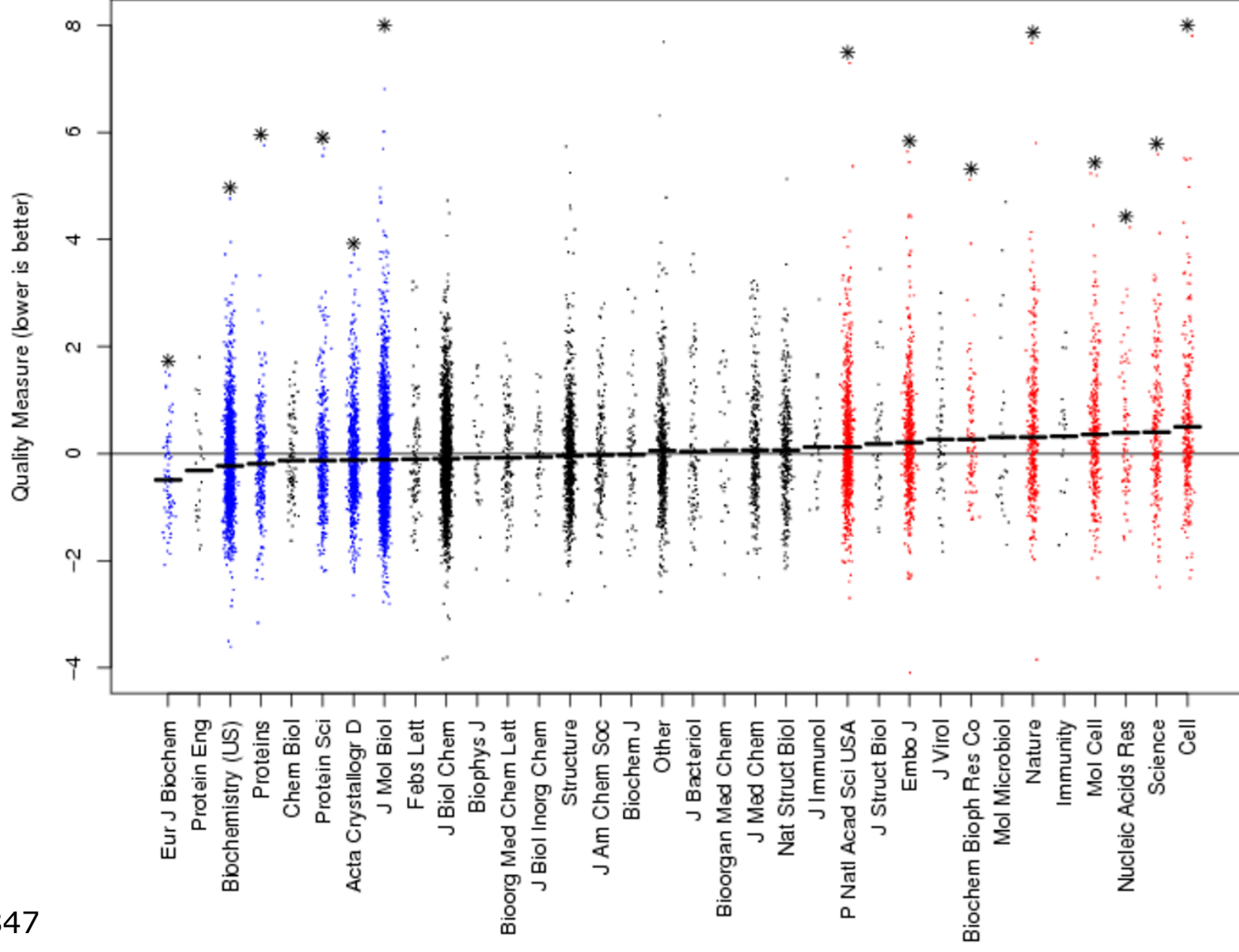
The US president wants to cut spending at the National Institutes of Health and Environmental Protection Agency, but it's not clear whether Congress will go along.

“HIGH IMPACT”

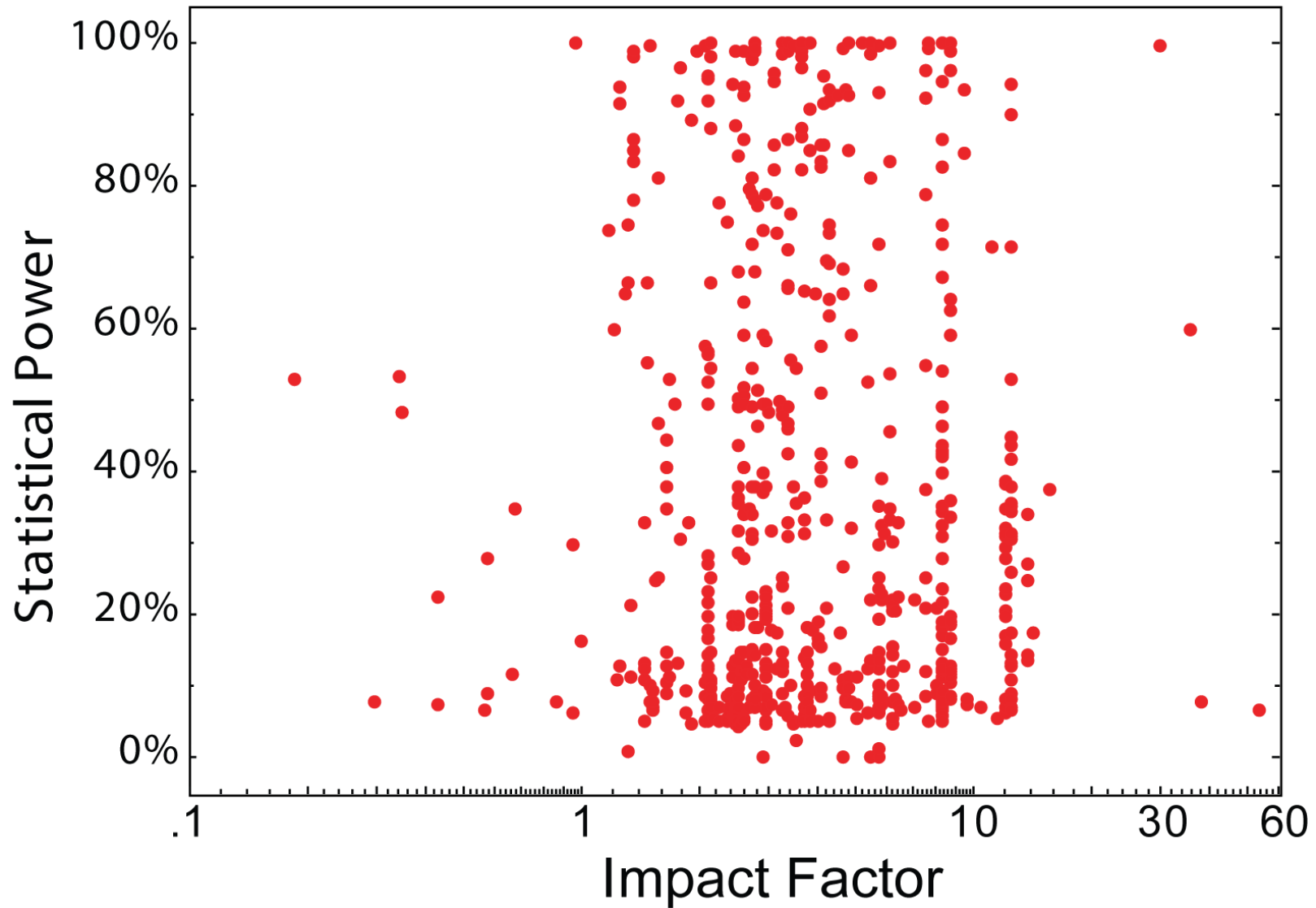


How reliable is the research in our most prestigious journals?

'Quality'



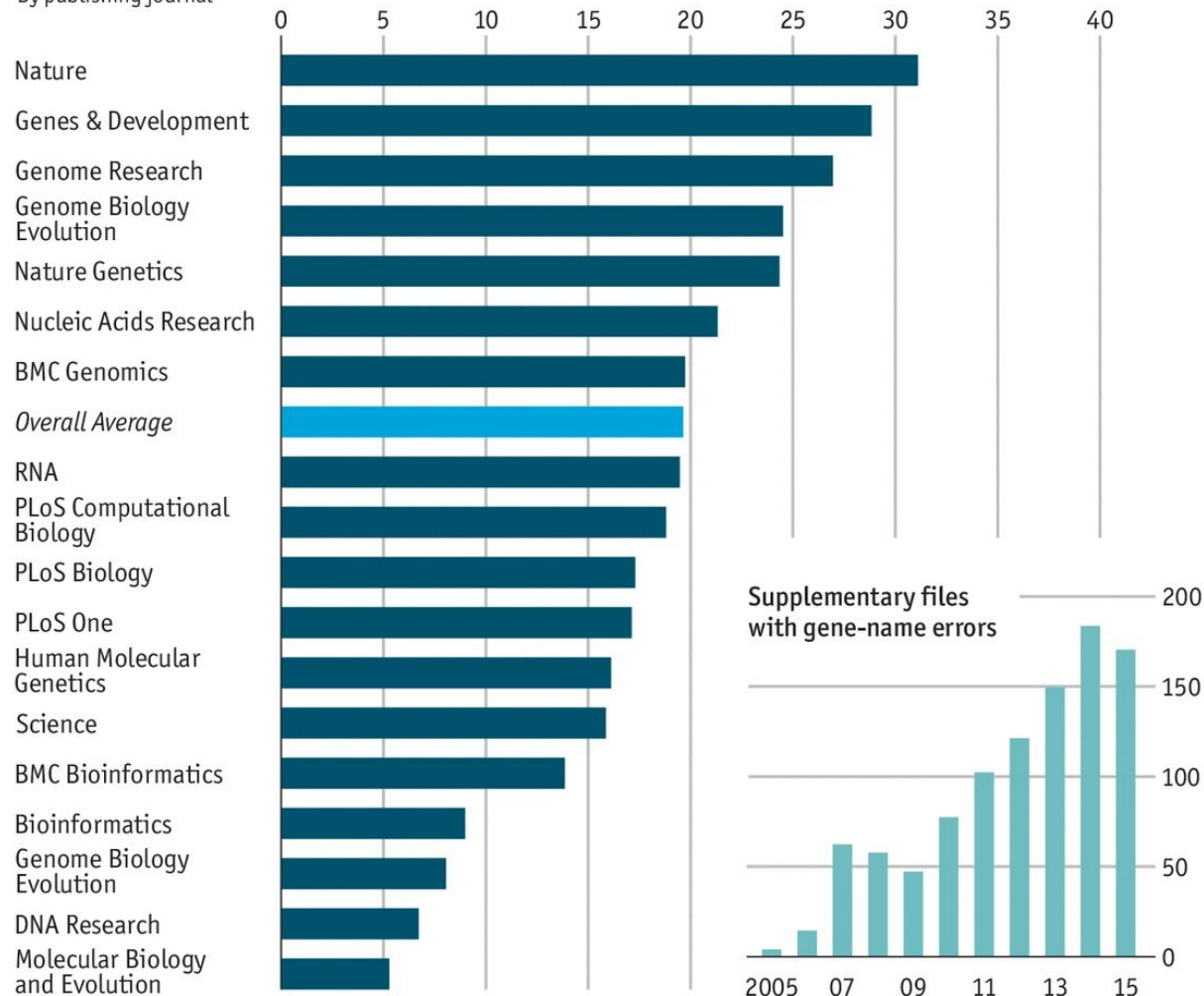
Methodology



Errors

#VALUE! error

Genomics papers with spreadsheet errors in supplementary files, 2005-15, %
By publishing journal



Source: "Gene name errors are now widespread in the scientific literature", Ziemann, Eren and El-Osta, 2016

-omics studies

DOI: 10.1186/s13059-016-1044-7
And 10.1371/journal.pcbi.1008984

QUALITY?



“High-Impact” journals attract the most unreliable research

RELIABILITY
AFFORDABILITY
FUNCTIONALITY



**The disaster that is scholarly
information infrastructure**

NATURE APC



More than 10.000€ for one article

Actual Costs

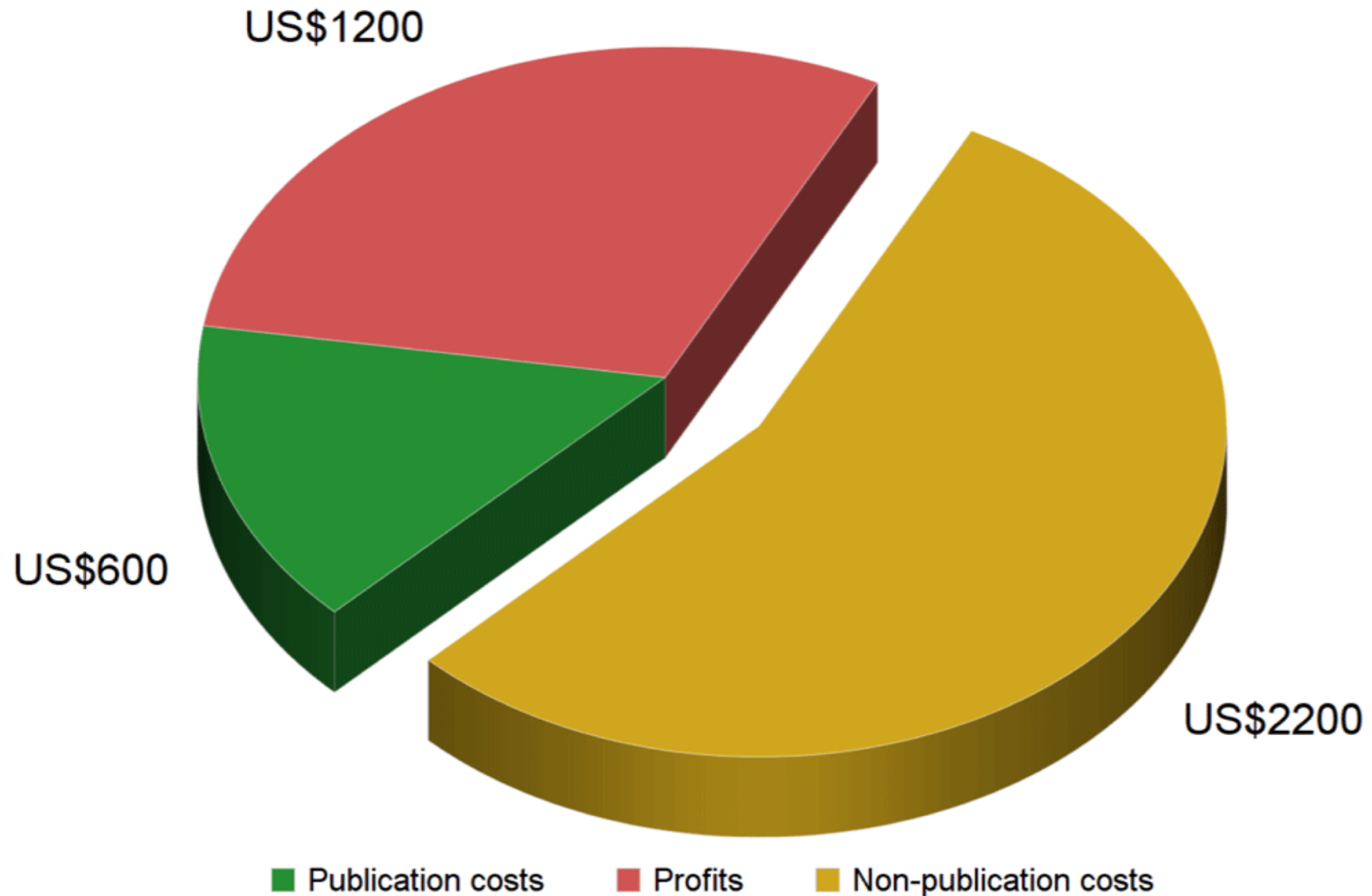
Online submission	US\$ 21.70
DOI	US\$ 1.94
Plagiarism detection	US\$ 0.95
Fundref	US\$ 0.31
Bibliographic reference normalization	US\$ 25.00
Production of XML, PDFWeb, PDF for Print and EPUB	US\$ 100.00
indexing, online publication and interoperability	US\$ 66.45

Kosten pro Artikel

US\$ 216.35



What to do with all that money?



Invest in Quality Control?



Elisabeth Bik ✓

@MicrobiomDigest



Replying to [@brembs](#) and [@jamesheathers](#)

It would be nice if scientific publishers could be spending some of the millions of \$\$\$ we pay them, on hiring staff to screen manuscripts for errors and fraud, and to quickly deal with concerns raised about published papers. Like a decent quality control.

3:23 PM · Oct 19, 2021 · Twitter for iPhone

1 Retweet 10 Likes

Journals that read you

The screenshot shows a web browser window with several tabs open. The active tab is a Nature article titled "The causes of sea-level rise since 1900". The browser's address bar shows the URL "nature.com/articles/s41586-020-2591-3".

The article page includes the Nature logo, navigation links for "Explore Content", "Journal Information", and "Publish With Us", and the article title "The causes of sea-level rise since 1900". The authors listed are Thomas Frederikse, Felix Landerer, Lambert Caron, Surendra Adhikari, David Parkes, Vincent Humphrey, Sönke Dangendorf, Peter Hogarth, Laure Zanna, Lijing Cheng & Yun-Hao Wu. The article is cited as "Nature 584, 393–397(2020)".

Overlaid on the page are two browser extensions:

- GHOSTERY**: Shows a "21" in a circular progress indicator, indicating 21 trackers blocked. It includes options to "Tracker entsperren", "Tracker blockieren", and "Ghostery pausieren".
- TRACKER**: A list of blocked trackers including "Essenziell", "Google Tag Manager", "Kundeninteraktion", "Usabilla", "Website-Analytics", and "Google Analytics".

At the bottom of the browser window, there is a "nature briefing" newsletter sign-up form with an email address field (containing "e.g. jo.smith@university.ac.uk") and a "Sign up" button. A privacy policy checkbox is also present.

The Windows taskbar at the bottom shows the system clock as 12:50 on 07.03.2021.

Journals that read you

The screenshot shows a web browser with multiple tabs. The active tab is displaying a Nature article titled "The causes of sea-level rise since 1900". The article text is partially visible, discussing GNSS and altimetry VLM estimates. A Ghostery ad blocker interface is overlaid on the page, showing a "TRACKER" list with items like "Google Ads measurement", "OpenX", "Turn Inc.", "TradeDesk", "Crimtan", "Yahoo Ad Manager Plus", and "Adform". The Ghostery interface also displays a "34" in a circular gauge and a "Laden der Seite 6.78 Sek." message. In the bottom right corner, there is a FENDI advertisement for a yellow bag with the text "SHOPPEN". The Windows taskbar is visible at the bottom, showing the time as 21:36 on 27.11.2020.

The causes of sea-level rise since 1900

GNSS and altimetry VLM estimates available, we use the average residual VLM weighted by the inverse of the squared standard errors of the individual estimates. For stations for which a residual VLM trend is available, we assume no residual VLM and a residual VLM standard error of 1 mm yr⁻¹. This standard error is based on the maximum VLM uncertainty that can be estimated on the standard deviation among the residual VLM estimates, 1.5 mm yr⁻¹. In some regions, large sea-level trends are compensated for by large residual VLM trends. As a result, the standard deviation is probably biased high for regions without residual VLM estimates because regions with a large sea-level trend and no residual VLM estimate are excluded during the quality control phase.

Global-mean and basin-mean sea-level reconstruction

Following ref. ⁹, before merging the individual region estimates into basin-mean estimates, we remove the biases between local sea-level changes in each region and basin-mean sea-level changes that result from GIA, contemporary GRD effects and residual VLM. This correction results in an estimate of basin-mean sea level (η_{basin}), given observed regional sea level (η_{region}), the difference between regional sea-level changes that result from GIA ($\eta_{\text{GIA,region}}$) and GRD ($\eta_{\text{GRD,region}}$), and the associated basin-mean sea-level changes, as well as residual VLM:

$$\eta_{\text{basin}}(t) = \eta_{\text{region}}(t) + [\eta_{\text{GIA,basin}}(t) - \eta_{\text{GIA,region}}(t)] + [\eta_{\text{GRD,basin}}(t) - \eta_{\text{GRD,region}}(t)] + R_{\text{residual}}(t) \quad (2)$$

Journals that read you

The screenshot displays a web browser window with multiple tabs. The active tab shows a Nature article titled "The causes of sea-level rise since 1900". The page content includes the article title, authors (Thomas Frederikse, Felix Lande, Humphrey, Sönke Dangendorf, Pe), and a section for the abstract. A "nature briefing" sign-up box is visible in the bottom left corner, and a "Sign up for the Nature Briefing newsletter" form is at the bottom of the page.

Overlaid on the page are several browser extensions and notifications:

- A cookie consent banner: "We use cookies to personalise content and ads, to provide social media features and to analyse our use of our site with our social media, advertising and analytics partners in order to improve our offerings. You can manage your preferences in 'Manage Cookies'."
- The GHOSTERY extension, showing a score of 73 and options to "Tracker entsperren", "Tracker blockieren", and "Ghostery pausieren".
- The TRACKER extension, listing various trackers like "Audio/Video-Player", "Celtra", "Essenziell", "Google Tag Manager", "Kundeninteraktion", and "Usabilla".
- An Adobe Acrobat Pro advertisement for "Projekte auch von zu Hause vorantreiben".

The browser's address bar shows the URL "nature.com/articles/s41586-020-2591-3". The system tray at the bottom indicates the date and time as 21:42 on 20.08.2020.

Journals that read you



Data tracking in research: aggregation and use or sale of usage data by academic publishers

A briefing paper of the Committee on Scientific Library Services and Information Systems of the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation)
28 October 2021

Article

Surveillance Publishing

Abstract

This essay develops the idea of *surveillance publishing*, with special attention to the example of Elsevier. A scholarly publisher can be defined as a surveillance publisher if it derives a substantial proportion of its revenue from prediction products, fueled by data extracted from researcher behavior. The essay begins by tracing the Google search engine's roots in bibliometrics, alongside a history of the citation analysis company that became, in 2016, Clarivate. The essay develops the idea of surveillance publishing by engaging with the work of Shoshana Zuboff, Jathan Sadowski, Mariano-Florentino Cuéllar, and Aziz Huq. The recent history of Elsevier is traced to describe the company's research-lifecycle data-harvesting strategy, with the aim to develop and sell prediction products to university and other customers. The essay concludes by considering some of the potential costs of surveillance publishing, as other big commercial publishers increasingly enter the predictive-analytics business. It is likely, I argue, that windfall subscription-and-APC profits in Elsevier's "legacy" publishing business have financed its decade-long acquisition binge in analytics. The products' purpose, moreover, is to streamline the top-down assessment and evaluation practices that have taken hold in recent decades. A final concern is that scholars will internalize an analytics mindset, one already encouraged by citation counts and impact factors.

Keywords: elsevier, scholarly publishing, data, prediction products, analytics

How to Cite:

Pooley, J., (2022) "Surveillance Publishing", *The Journal of Electronic Publishing* 25(1) doi:
<https://doi.org/10.3998/jep.1874>

<https://doi.org/10.3998/jep.1874>

Expand Monopolies



Reverse the flow of information



RELIABILITY
AFFORDABILITY
FUNCTIONALITY



**The disaster that is scholarly
information infrastructure**

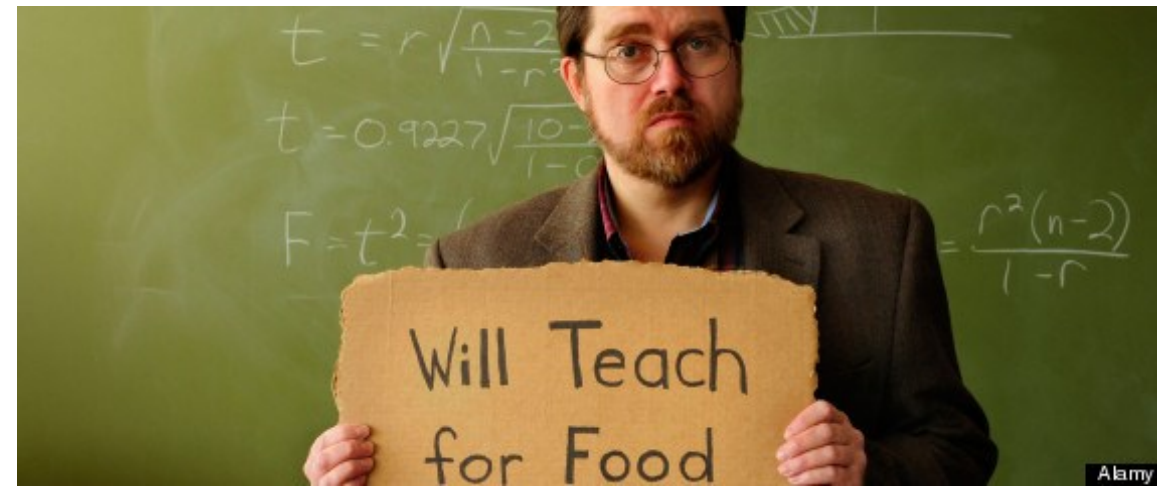
QC just one missing functionality



...it's like the internet in 1995!

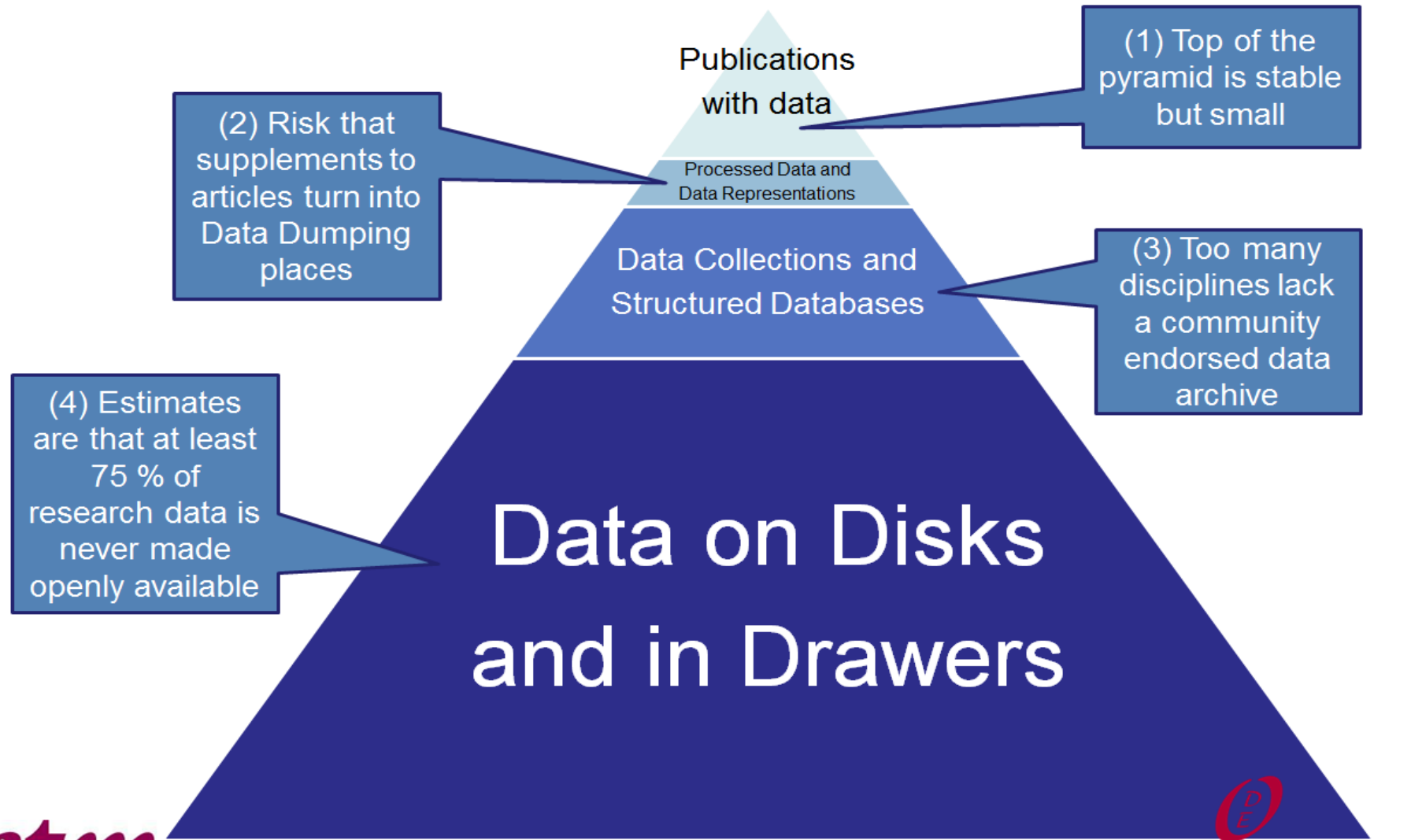
- Obsolete modes of access
- Journal prestige correlates with unreliability
- No scientific impact analysis
- Suboptimal peer-review
- Massive transparency issues
- No effective sort, filter and discover solution
- No functional hyperlinks
- Static data visualizations
- No content mining
- No social component
- No global search
- Hardly any user statistics
- etc.

NOT JUST PAPERS



Scientists produce text, data and code

Data in peril





Swiss Institute of
Bioinformatics



Search UniProtKB

for

Go

Clear

ExpASY Proteomics Server

[Databases](#) [Tools](#) [Services](#) [Mirrors](#) [About](#) [Contact](#)

You are here: [ExpASY CH](#) > [Databases](#) > [Around UniProtKB](#)



SWISS-PROT should have been 10 years old in July 1996, but it may disappear on June 30, 1996

Due to funding problems, SWISS-PROT as well as PROSITE, and the ENZYME nomenclature databases will disappear on June 30, 1996 if no solution is found before that date. The ExpASY WWW server and all services associated with it will also shut down. The distribution of the SWISS-2DPAGE database will also be discontinued. Other external databases, WWW services and software packages that depend on SWISS-PROT,



21



IN DEPTH | BIOMEDICAL RESOURCES

Funding for key data resources in jeopardy

Jocelyn Kaiser

Science 01 Jan 2016:

Vol. 351, Issue 6268, pp. 14

DOI: 10.1126/science.351.6268.14

Article

Figures & Data

Info & Metrics

eLetters



PDF

Data is disappearing

Current Biology

REPORT | [VOLUME 24, ISSUE 1, P94-97, JANUARY 06, 2014](#)

The Availability of Research Data Declines Rapidly with Article Age

[Timothy H. Vines](#)   • [Arianne Y.K. Albert](#) • [Rose L. Andrew](#) • ... [Jean-Sébastien Moore](#) • [Sébastien Renaut](#) • [Diana J. Rennison](#) • [Show all authors](#)

[Open Archive](#) • Published: December 19, 2013 •

DOI: <https://doi.org/10.1016/j.cub.2013.11.014> •



Non-existent software/code archives



UNIVAC (A-2) 1953: share and re-use code



Microsoft



GitHub



[Home](#) / [Consumer Electronics](#)

NEWS

Microsoft has closed its e-bookstore, and everything you purchased will vanish in July



[Home](#) / [Consumer Electronics](#)

NEWS

Microsoft has closed its e-bookstore, and everything you purchased will vanish in July

Microsoft Is Closing Its Ebook Store and Taking the Books With It

Even the ones you bought and paid for.

NEWS

Technology

Microsoft's eBook store: When this closes, your books disappear too

NEWS

Microsoft you purch

Microsoft Is Closing Its Ebook Store and Taking the Books With It

Even the ones you bought and paid for.

NEWS
Microsoft
you purch

NEWS

Technology

Microsoft's eBook store: When this

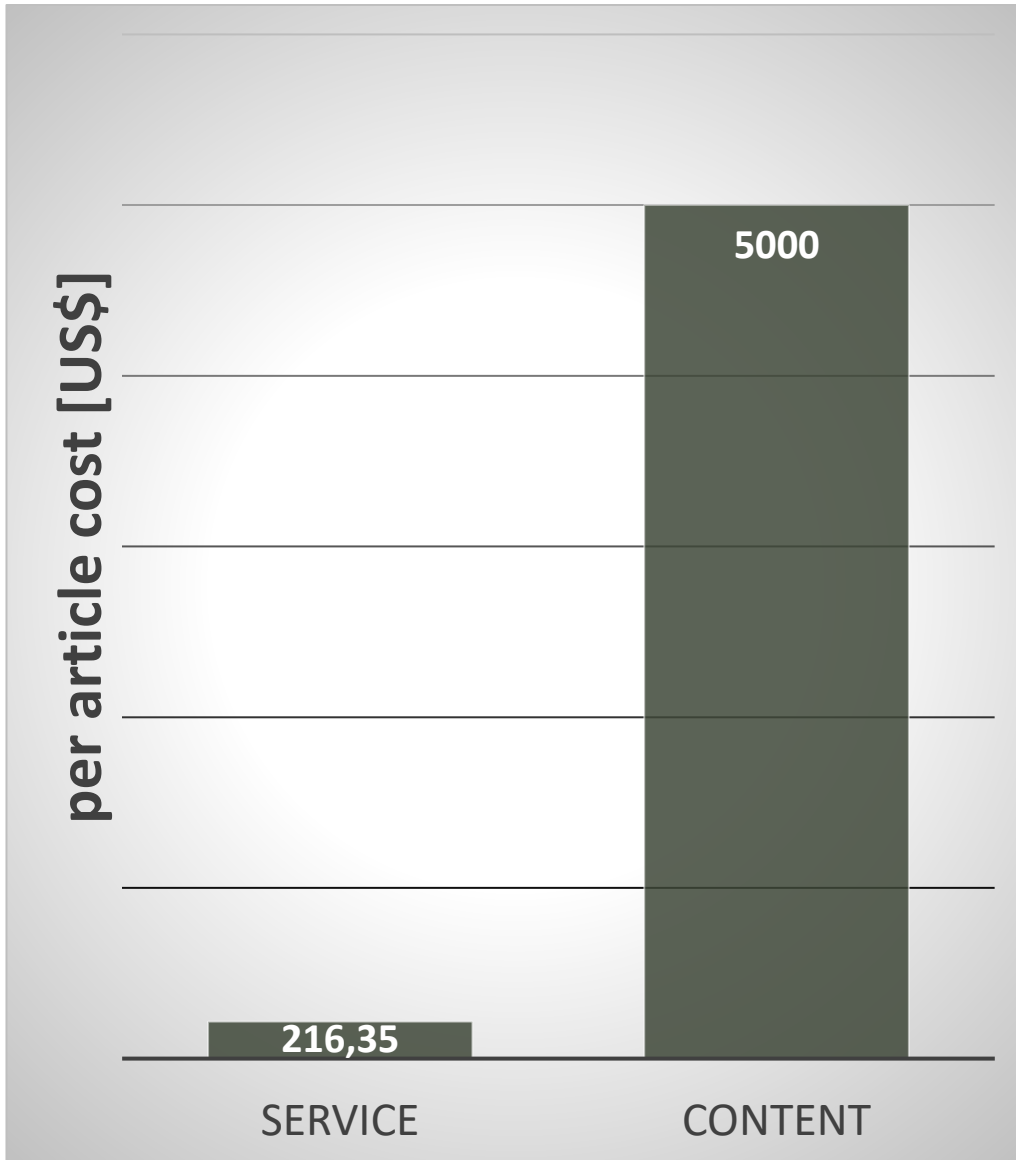
Microsoft's Ebook Apocalypse Shows the Dark Side of DRM

Microsoft has closed its ebook store—and will soon make its customers' libraries disappear along with it.

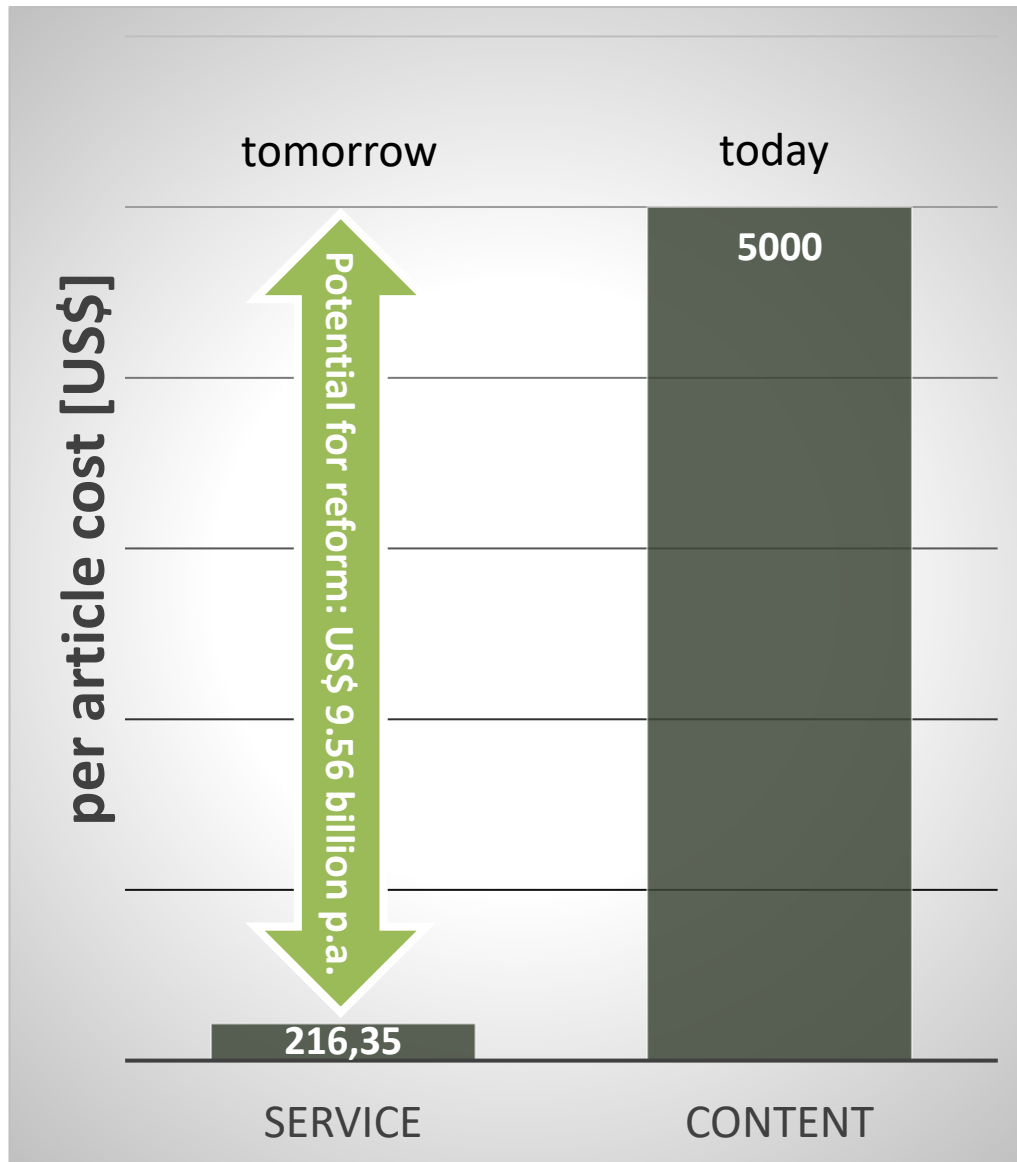
Microsoft Is Closing Its Ebook Store and Taking the Books With It

Even the ones you bought and paid for.

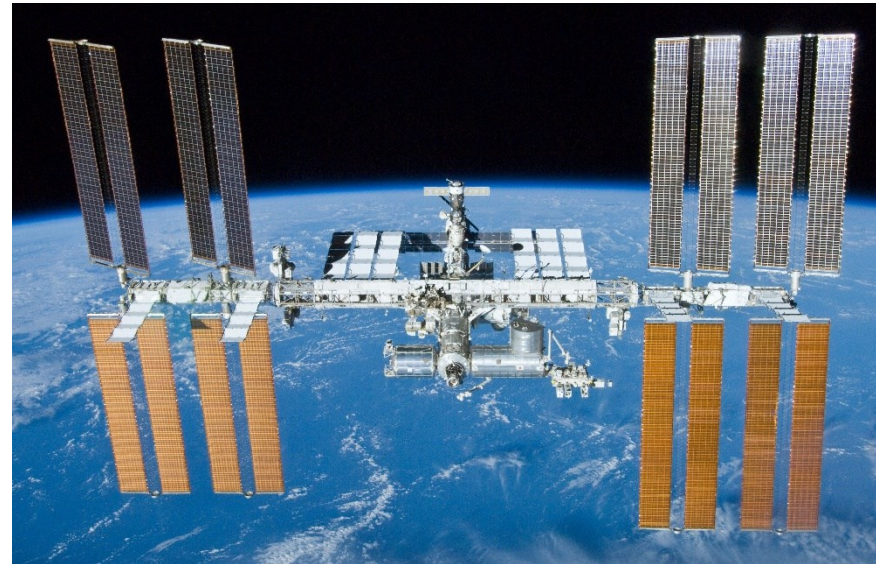
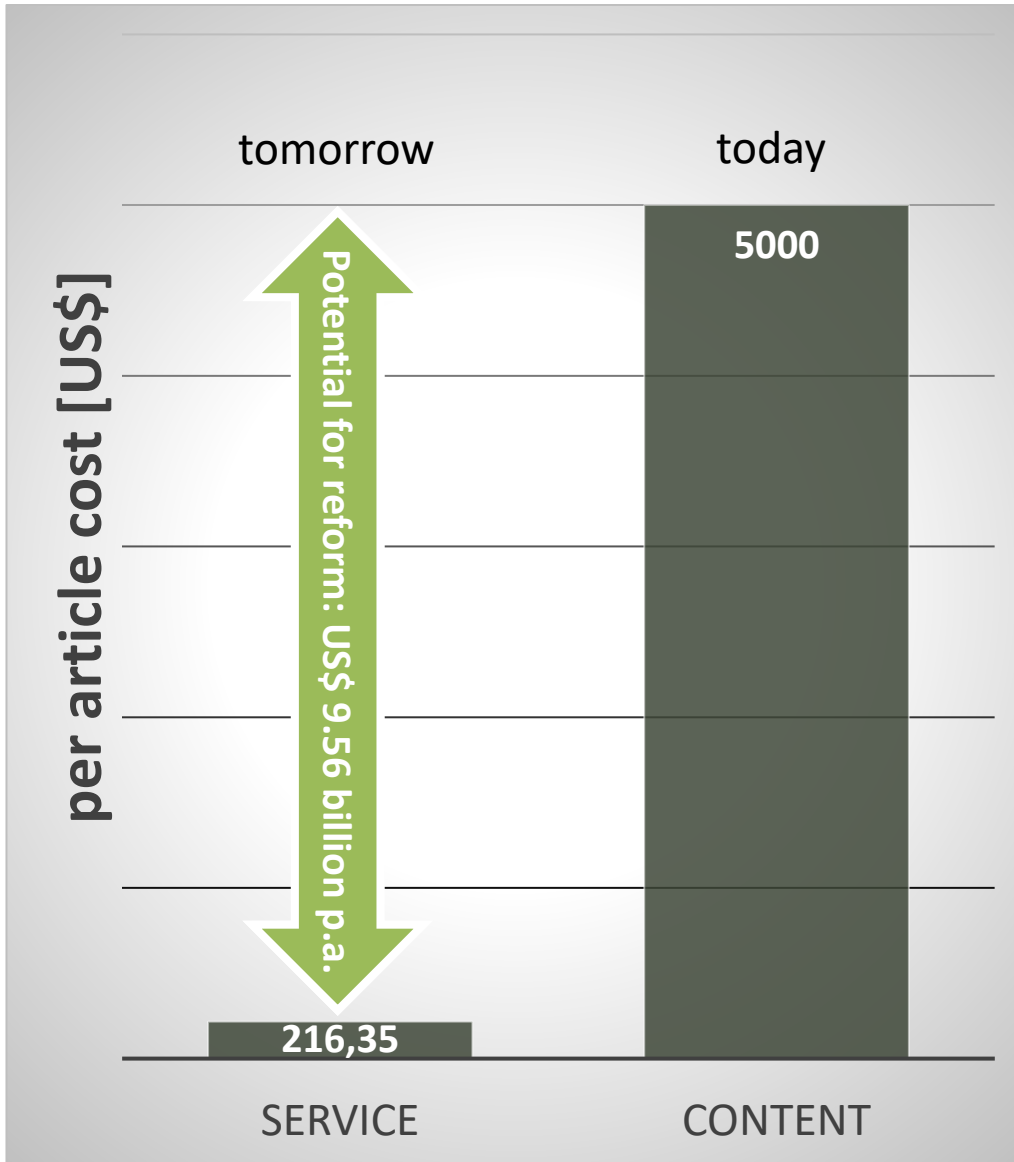
Tackle RAF root: stop paying for journals



Tackle RAF root: defund the journals



Tackle RAF root: defund the journals



~3 billion / year



~2 billion / year

How to get there?

*Case No COMP/M.3197 -
CANDOVER / CINVEN /
BERTELSMANN-
SPRINGER*

Only the English text is available and authentic.

**REGULATION (EEC) No 4064/89
MERGER PROCEDURE**

Article 6(2) NON-OPPOSITION
Date: 29/07/2003

*Also available in the CELEX database
Document No 303M3197*

How to get there?

*Case No COMP/M.3197 -
CANDOVER / CINVEN /
BERTELSMANN-
SPRINGER*

Only the English text is available and authentic.

REGULATION (EEC) No 4064/89
MERGER PROCEDURE

Article 6(2) NON-OPPOSITION
Date: 29/07/2003

*Also available in the CELEX database
Document No 303M3197*

“From the point of view of functional interchangeability, two different publications could hardly be regarded as substitutable by the end-users, the readers.”

How to get there?

WR

WISSENSCHAFTSRAT

Cologne 21 01 2022

Recommendations on
the **Transformation of
Academic Publishing:**
Towards Open Access

How to get there?

WR

WISSENSCHAFTSRAT

Cologne 21 01 2022

Functioning, competition-driven market structures do not exist due to this concentration in the case of journals. In addition to the non-substitutability of journal titles, the lack of transparency is the greatest obstacle to the development of a functioning publication market.

Recommendations on
the **Transformation of
Academic Publishing:**
Towards Open Access

Incentives I: Defund the journals

- Current journal payments for *content* allowed only via “single source exemption”

How to get there?

WR

WISSENSCHAFTSRAT

Cologne 21 01 2022

than on the basis of the chosen publication organs. This is a prerequisite for making publication options substitutable and thus for enabling competition between publication service providers. At the same time, the data basis for assess-

Recommendations on
the **Transformation of
Academic Publishing:**
Towards Open Access

Substitutability: Tender processes



EN English

Search

[Home](#) > [News](#) > [The EC to launch a new a tender for an open access publishing platform](#)

NEWS | 24 April 2019 | Brussels, Belgium | Research and Innovation

The EC to launch a new a tender for an open access publishing platform

The European Commission is committed to supporting beneficiaries in complying with open access requirements in Horizon 2020, as well as supporting open access publishing as the main mode of publishing research in the context of open science. To this end, the EC will soon launch a tender for an open access publishing platform, subsequent to a tendering procedure which led to a non-award in 2018. The intended result is an open access publishing platform where peer-reviewed articles and related pre-prints produced with the financial support of Horizon 2020 can be published efficiently and under high standards of quality.

Substitutability: Tender processes



Research and Innovation

Open Research Europe

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Rapid & Transparent Publishing

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

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Incentives I: Defund the journals

- Current journal payments for *content* allowed only via “single source exemption”
- Publishing *services* cannot be covered by this exemption and must be awarded by tender/bidding:
 - Open Research Europe
 - Hardware, Software, Services

Journal alternatives



Research and Innovation

Open Research Europe

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[PRINCIPLES](#)

[ORGANISATIONS](#)

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Organisations

The following organisations provide specific options to their researchers and communities to publish in adherence with the five [open research publishing principles](#) that have been drafted and are governed by the [Board of Directors](#):



African Academy of Sciences



Alzheimer's Research UK



Antibiotic Research UK



Association of Medical Research Charities



Ataxia



Autistica



Bill & Melinda Gates Foundation



BRACE



Children with Cancer UK



Children's Cancer and Leukaemia Group



Chronic Disease Research Foundation



DEBRA



Diabetes UK



Dream Challenges



ELIXIR



Emerald Publishing



Epilepsy Research UK



European Commission



Fight for Sight



Health Research Board Ireland



INCF



Institute of Alcohol Studies



International Society for Computational Biology



Israel Science Foundation



Macmillan Cancer Support



Marie Curie



Meningitis Research Foundation



Mesothelioma UK



MND



MQ



MCS Society



Researcher

Journal alternatives

The screenshot shows the homepage of Open Research Central (ORC). The top navigation bar includes the ORC logo, 'BROWSE', 'ABOUT', and 'FAQs'. The main header features the ORC logo, the title 'Open Research Central', and the tagline 'The central portal for open research publishing'. Below this, it lists key features: 'RAPID PUBLICATION | OPEN DATA' and 'OPEN PEER REVIEW | OPEN ACCESS'. A search bar with the placeholder 'Search for articles' and a 'BROWSE ARTICLES' button are present. The page is powered by F1000. The main content area is titled 'Publish your Research' and describes the platform as a formal peer-review process for researchers. It includes a 'Read more' link and three featured research categories: 'For all researchers' (powered by F1000 Research), 'For Wellcome-funded researchers' (powered by Wellcome Open Research), and 'For Gates Foundation-funded researchers' (powered by Gates Open Research).

ORC

BROWSE ABOUT FAQs

Open Research Central

The central portal for open research publishing

RAPID PUBLICATION | OPEN DATA
OPEN PEER REVIEW | OPEN ACCESS

Search for articles

BROWSE ARTICLES

Powered by F1000

Publish your Research

All researchers who wish to publish their research outputs without restrictions and engage in scholarly debate through a formal peer-review process can submit for publication via Open Research Central.

[Read more →](#)

F1000 Research
For all researchers

W wellcome
For Wellcome-funded researchers

Gf
For Gates Foundation-funded researchers

F1000Research

Wellcome Open Research

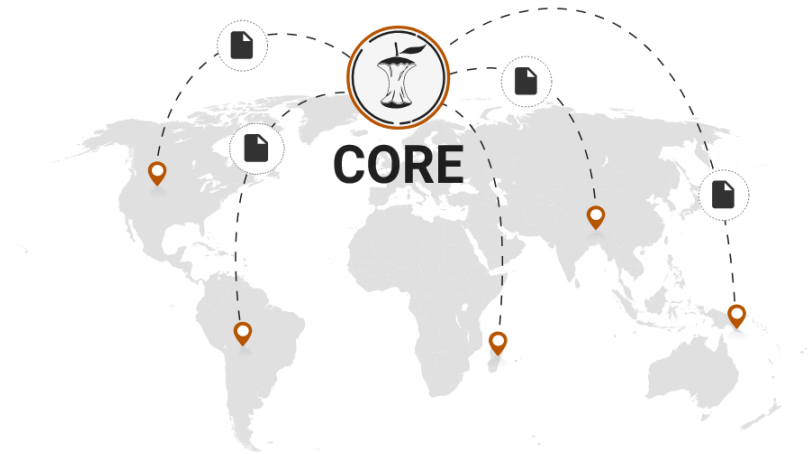
Gates Open Research

Journal alternatives

The world's largest collection of open access research papers

Q Search 207,255,818 from papers around the world

SEARCH



Global aggregator

We serve the global network of open access **repositories and journals**



Harmonized data access

We provide seamless access to content and **data**, through our unique **APIs and Datasets**

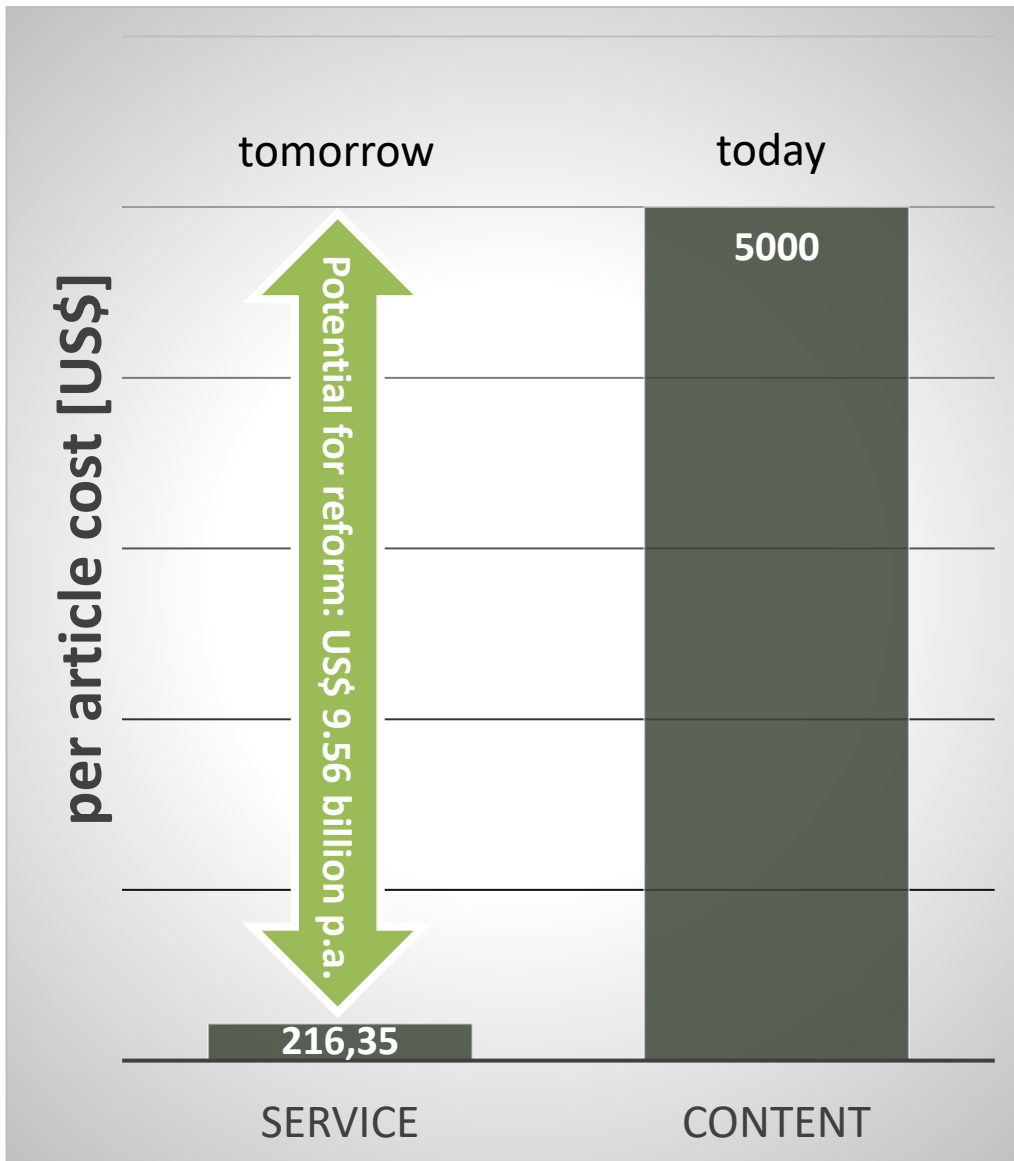
New



Powerful services

We create powerful **services** for researchers, universities, and industry

Tackle RAF root: defund the journals

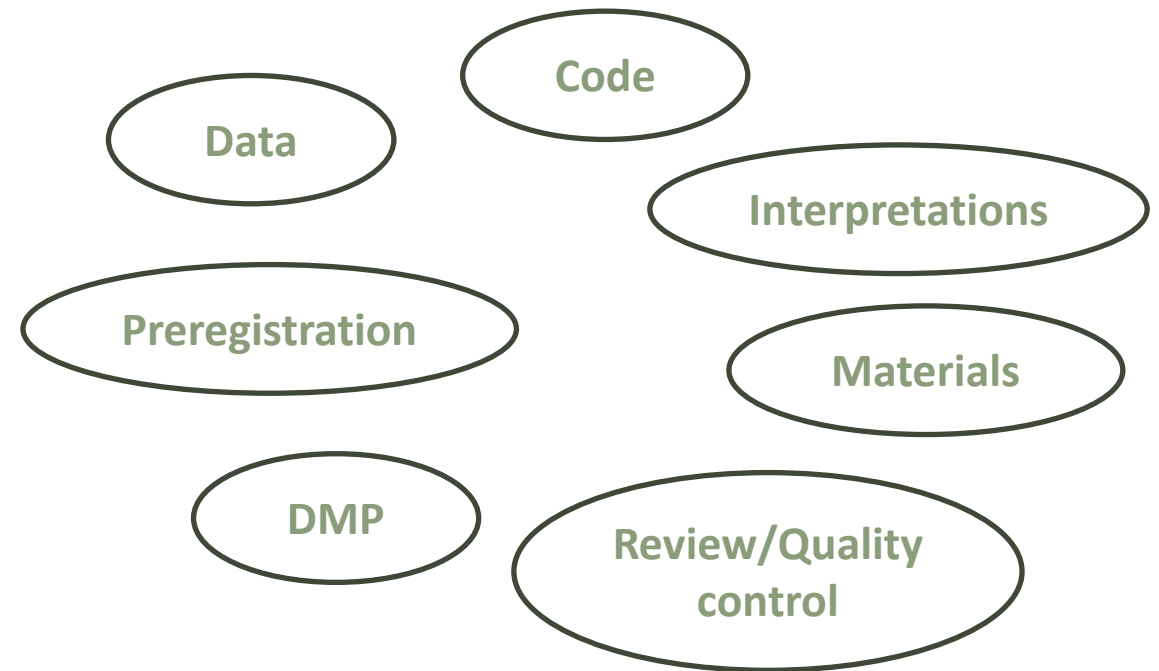


A sustainable scholarly infrastructure:

- Substitutable Services (-> competition!)
- No author facing costs
- Journal functionalities can be copied
- Cost-neutral solutions for data/code
- No individual mandates necessary
- No journals, no need to judge journal quality
- ...
- ...
- ...
- ...
- ...
- ...
- ...
- Side effect: permanent, legal, public access

A system of interoperable digital research objects

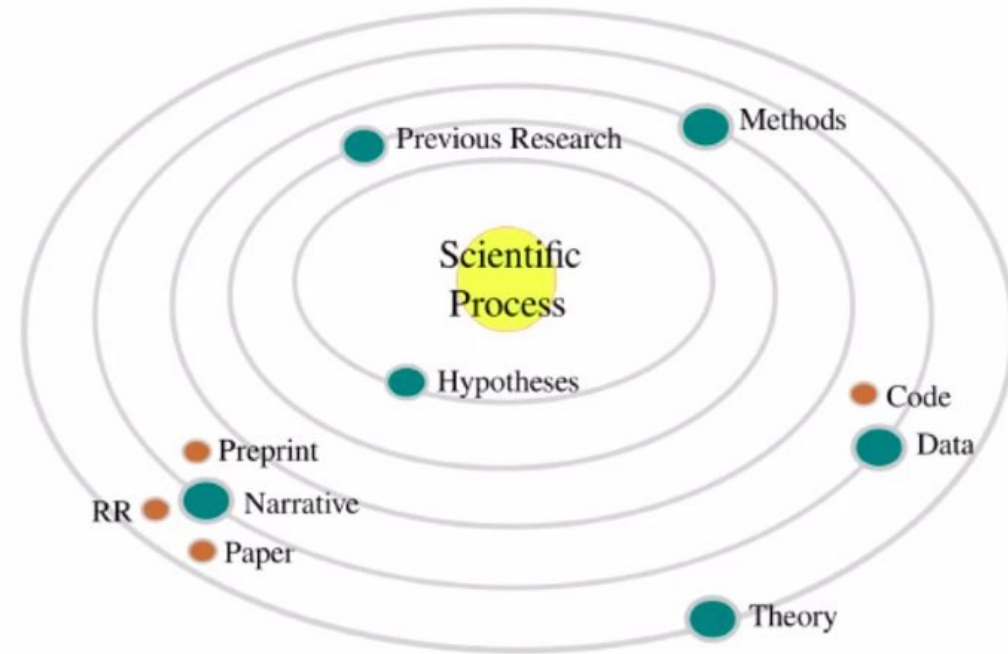
- Dynamic, version controlled
- Can be searched and text-mined
- Near-immediate publication
- Different models for post-publication review exist
- Contributorship in diverse roles
- Open to everyone



A system of interoperable digital research objects

- Dynamic, version controlled
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Heliocentric Model of (Open) Science



Orbits are not hierarchical

Incentives II: Keeping the money

cOAlition S members and their policies

Which of these funding agencies have specific eligibility criteria in place for institutions to receive funding? For instance, these can be infrastructure requirements, requirements to support good scientific practice or accreditation requirements.

Name	country	Eligibility criteria (Y/N)?	Policy link(s)
SAMRC	ZA	?	
FWF	AT	Y	<ol style="list-style-type: none"> https://www.fwf.ac.at/fileadmin/files/Dokumente/Ueber_den_FWF/Publikationen/FWF-relevante_Publikationen/fwf_foerederungsrichtlinien.pdf https://www.fwf.ac.at/en/research-funding/decision-making-procedure-evaluation/funding-guidelines/eligibility-to-apply-application-requirements
AKA	FI	Y	<ol style="list-style-type: none"> https://www.aka.fi/en/research-funding/apply-for-funding/how-to-apply-for-funding/az-index-of-application-guidelines2/guidelines-for-sites-of-research/ https://www.aka.fi/globalassets/1-tutkimusrahoitus/1-hae-rahoitusta/nain-kaytat-rahoitusta/funding-terms-and-conditions-1jan-31dec-2021.pdf
ANR	FR	?	https://anr.fr/fileadmin/documents/2020/ANR-RF-2019-05082019-corrections-oct-2020.pdf
SFI	IE	Y	https://www.sfi.ie/funding/sfi-policies-and-guidance/eligibility-related-information
INFN	IT	?	
FNR	LU	Y	https://www.fnr.lu/fnr-beneficiaries
NWO	NL	Y	https://www.nwo.nl/sites/nwo/files/media-files/NWO%20Grant%20rules%202017%20-%20version%20January%202019%20-%20EN.pdf
FR	NO	Y	https://www.forskningsradet.no/sok-om-finansiering/hvem-kan-soke-om-finansiering/forskningsorganisasjoner/godkjente-forskningsorganisasjoner
NSC	PL	?	https://ncn.gov.pl/finansowanie-nauki/pomoc-publiczna?language=en
SRA	SI	?	
Forte	SE	Y	https://forte.se/sok-finansiering/att-soka-bidrag/vem-kan

			-soka
Formas	SE	Y	https://www.formas.se/soka-finansiering/sa-har-gar-det-till/vem-kan-soka-finansiering/vem-kan-bli-medelsforvaltare.html
UKRI	UK	Y	https://www.ukri.org/apply-for-funding/before-you-apply/check-if-you-are-eligible-for-research-and-innovation-funding/apply-to-become-an-eligible-organisation/#contents-list
NSTC	ZM	Y	https://nstc.org.zm/index.php/registration
HCST	JO	?	
Vinnova	SE	Y	Different in each call
(VR)	SE	Y	https://www.vr.se/soka-finansiering/att-soka-bidrag.html https://www.vr.se/download/18.2ee651b8163094d763ecfeaf/1529480568380/Kriterier+godk%C3%A4nda+medelsf%C3%B6rvaltare.pdf (not a member in but stands behind the PlanS principles; maybe not relevant...) https://www.vr.se/aktuellt/evenemang/evenemangsarkiv/2018-12-28-hearing-om-plan-s.html

https://docs.google.com/document/d/1uG1mcOEKLFfaJm9PDvink_Tabjzsb4aliNf4pw7LJOg/edit?usp=sharing

Incentivize institutions to replace scholarly journals

1. Enforce procurement rules once substitutability is established:
 - > publication payments awarded exclusively via tenders
2. Funders incentivize institutions to make investments in modern infrastructure via eligibility rules:
 - > antiquated infrastructure, no funding