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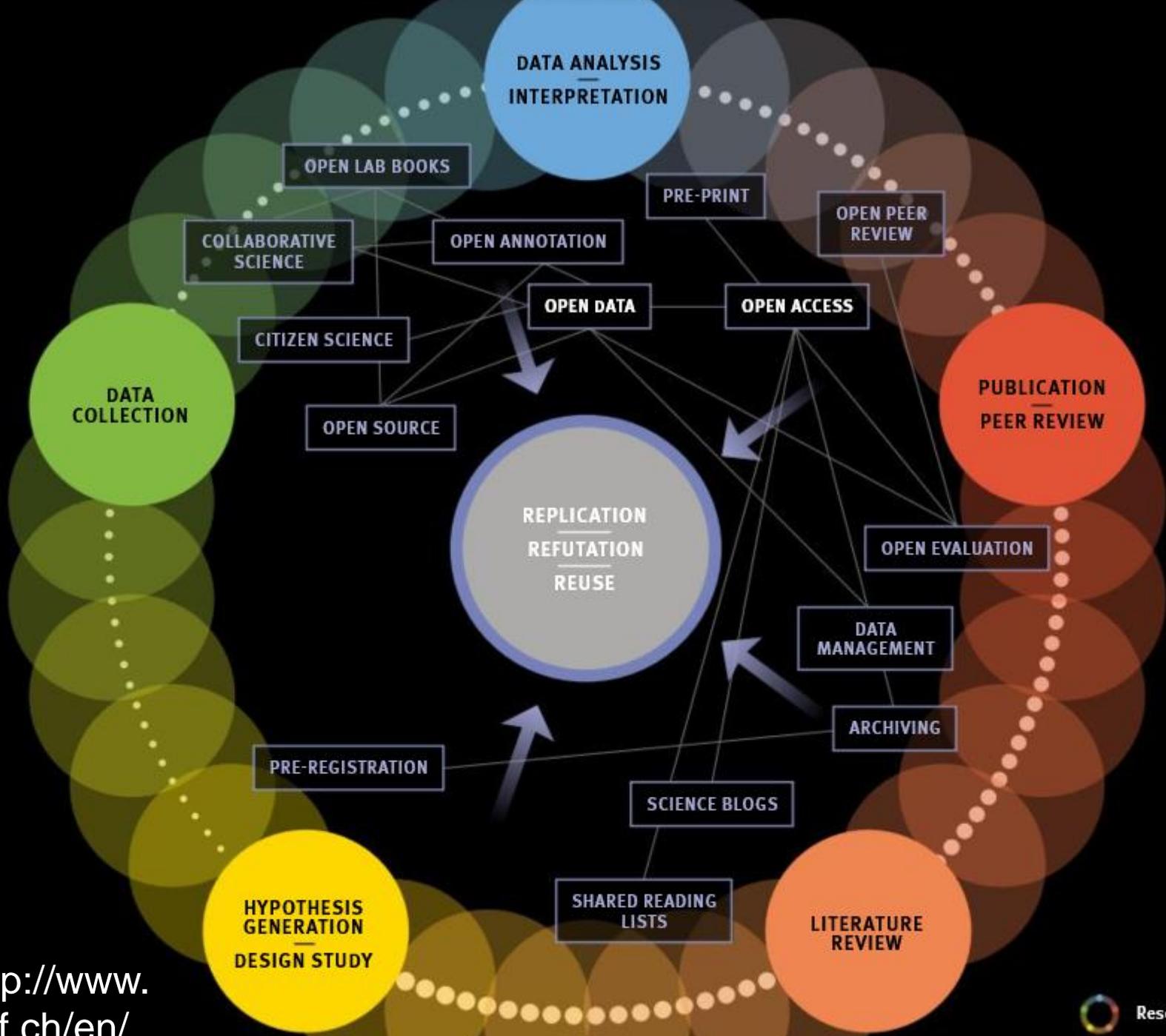
EURODOC 2017

The way forward for Open Science

Ole Petter Ottersen
Rector/President University of Oslo

Chair, Guild of Research Intensive
Universities





<http://www.snf.ch/en/>



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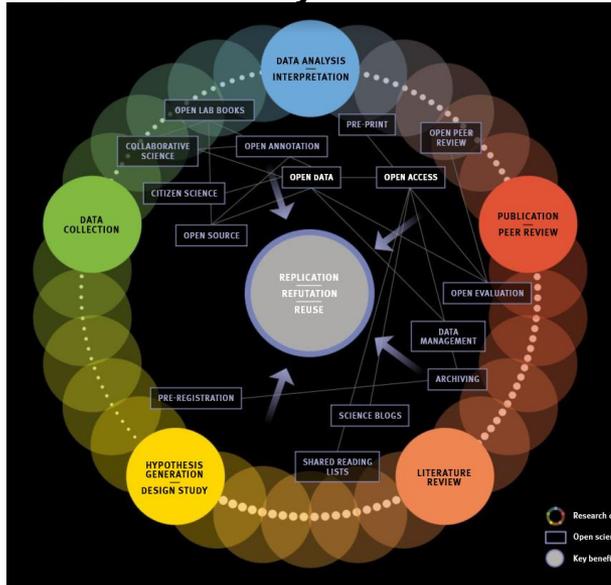
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I predict that the researcher in 2030 asks how she can share her data as quickly as possible – not as today, when she asks how she can publish them as soon as possible.

It is all about sharing, including, collaborating – and it is about transparency, interdisciplinarity, reproducibility, research documentation and ethics

And it is about democratization of science



SUSTAINABLE DEVELOPMENT GOALS

«Surprising alliances»

Why collaboration will be key to achieving the Sustainable Development Goals



Image: REUTERS/Siphiwe Sibeko

31 Jan 2017

Anne-Birgitte Albrechtsen
CEO, Plan International

Since 2015, when the United Nations established a set of shared goals and targets for achieving sustainable development around the world, the development community has been excited, energized but also a little bit wary.

Open Science (OS): “the idea that scientific knowledge of all kinds should be openly shared as **early** as is practical in the discovery process.”

This ambition involves the “whole ‘business cycle’ of doing science and research – from the selection of research subjects, to the carrying out of research and to its use and re-use.

This vision of openness encompasses the relation between individual researchers and laboratories, between nations, between disciplines, and between researchers and the community.”

Nielsen, M. *Reinventing discovery: The new era of networked science*. Princeton University Press, 2012.

Moedas, C. “Open innovation, open science, open to the world.” *European Commission–Speech ‘A new start for Europe: Opening up to an ERA of Innovation’ Conference, Brussels, Belgium. 22nd June. 2015, p. 33.*



Science has a simple faith, which transcends utility. It is the faith that it is the privilege of man to learn to understand, and that this is his mission.

— *Vannevar Bush* —

AZ QUOTES

UiO's policy on Open Access:

- We will not be able to reach our aims unless these publishers agree to change their business models.
- Together with a number of other institutions, UiO has signed the *Expression of Interest in the Large-Scale Implementation of Open Access to Scholarly Journals*
- From the current subscription-based model, we would like to see journals move to provide open access to all articles.
- We will continue to pay journals and publishers for the work they do, but not in the form of subscriptions. We would rather pay for publishing articles "in advance" so that articles from UiO's researchers are open to all.

Open access campaigners toughen stance towards publishers

Advocates argue that universities should be prepared to ditch subscriptions altogether

March 27, 2017



By [David Matthews](#)

Twitter: [@DavidMJourn](#)

Gerard Meijer, director of the Fritz Haber Institute in Berlin, who led Dutch universities in their protracted negotiations with Elsevier in 2015, told delegates that in order not to be “held hostage” by publishers during talks, “complete opting-out of the contracts had to be a realistic option. And we are prepared for that.”

The aim was to give publishers two options: “either to go along in the transformation [to open access] or to face cancellation of the contract”, he told delegates at OA2020 on 22 March.

European Commission considering leap into open-access publishing

By [Martin Enserink](#) | Mar. 29, 2017, 3:00 AM




Wellcome Open Research
A new way for Wellcome-funded researchers to rapidly publish any results they think are worth sharing.
[SUBMIT YOUR RESEARCH](#)



Sabina Leonelli

@SabinaLeonelli

 Følg

Official confirmation by [@BurgelmanJean](#) that EU will soon launch [#OA](#) publishing platform modelled on [@wellcometrust](#) Open Research [#osc2017](#)

COMING SOON

GATES OPEN RESEARCH

A platform for rapid author-led publication and open peer review of research funded by the Bill & Melinda Gates Foundation



The Economist

27. mars kl. 20:55 · 🌐

Scientific journals were once a great idea. Now though, they are slowing progress



Bodleian Libraries, University of Oxford

The findings of medical research are disseminated too slowly

But that is about to change

ECONOMIST.COM

“ON JANUARY 1st the Bill & Melinda Gates Foundation did something that may help to change the practice of science. It brought into force a policy, foreshadowed two years earlier, that research it supports (it is the world’s biggest source of charitable money for scientific endeavours, to the tune of some \$4bn a year) must, when published, be freely available to all. [...]

That will hurt. Publication in such Premier-league journals is the stuff careers are built on. But it will also hurt the journals themselves. Their prestige is based on their ability to pick and publish only the best.”



We must focus on key areas of Open Science, with a clear commitment to realise Open Access for scientists and citizens to research output and research data.

To ensure that science is fully embedded in society, the European Commission must lead in discussions with scientists, libraries and publishers to create fair conditions for open access, based on the needs of the stakeholders.



European
Commission

Open **Innovation**
Open **Science**
Open to the **World**

– a vision for Europe



Research and
Innovation



OPEN RESEARCH DATA IN HORIZON 2020

CHALLENGE

Wider access to scientific facts and knowledge helps researchers, innovators and the public find and re-use data, and check research results:

offers better
value for EU
research funds



a public
benefit

encourages
research across
scientific fields



essential for
solving today's
complex societal
challenges

SOLUTION

Horizon 2020 already mandates open access to **all scientific publications**



From 2017,
**research data is
open by default,**
with possibilities to **opt out**

RESEARCH DATA - OPEN BY DEFAULT



HORIZON 2020 GRANTEES ARE REQUIRED

take measures to ensure open access to the data underlying their scientific publications

provide open access to any other research data of their choice

Horizon 2020 grantees are encouraged to also share datasets beyond publication



Carpentry@UiO

To facilitate sharing and reusing of data among researchers Software Carpentry and Data Carpentry, workshops are offered to PhDs and researchers at UiO and OUS.



software carpentry

Teaching basic lab skills
for research computing



DATA CARPENTRY

BUILDING COMMUNITIES TEACHING UNIVERSAL DATA LITERACY



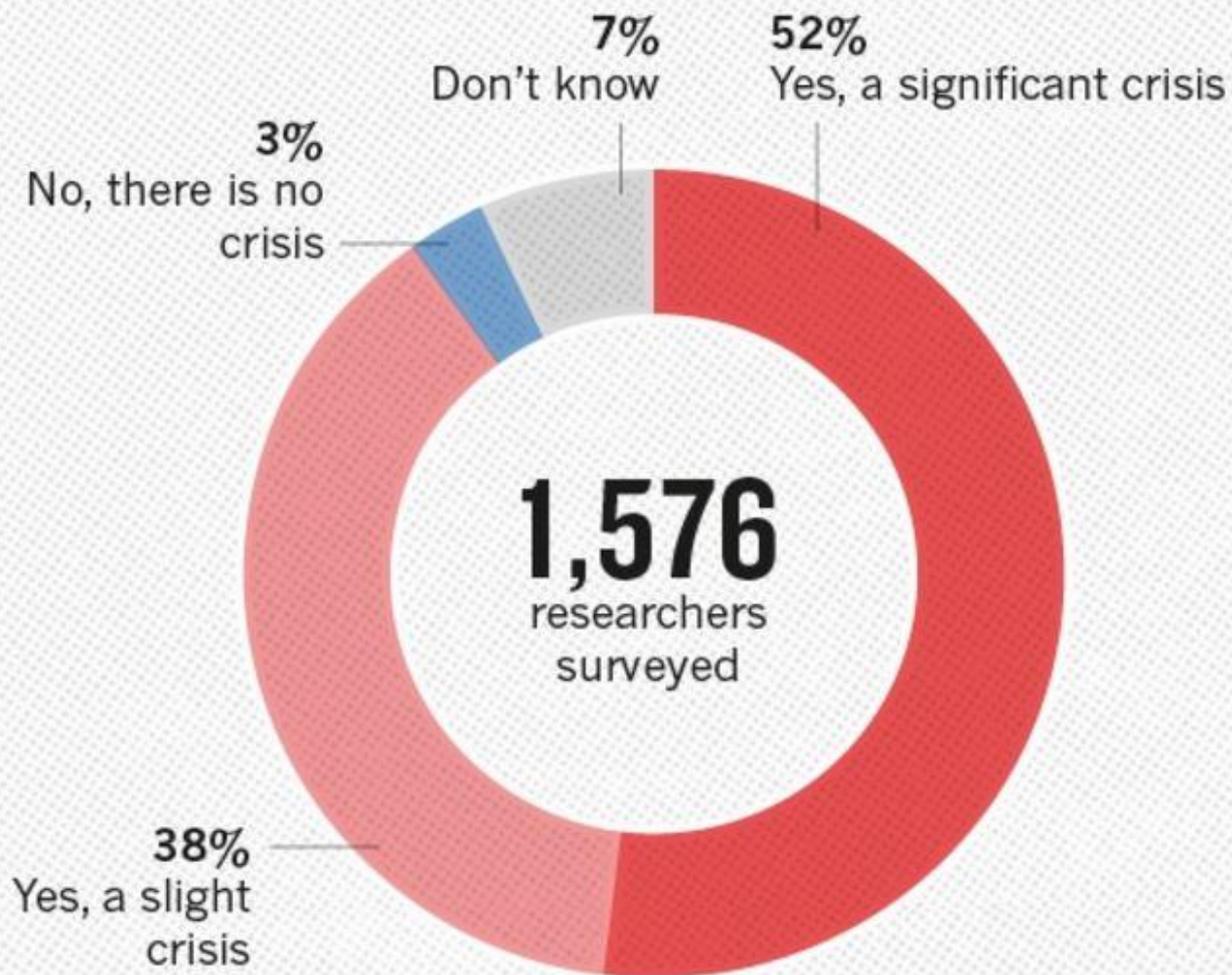
1,500 scientists lift the lid on reproducibility

Survey sheds light on the 'crisis' rocking research.

[Monya Baker](#)

25 May 2016 | Corrected: [28 July 2016](#)

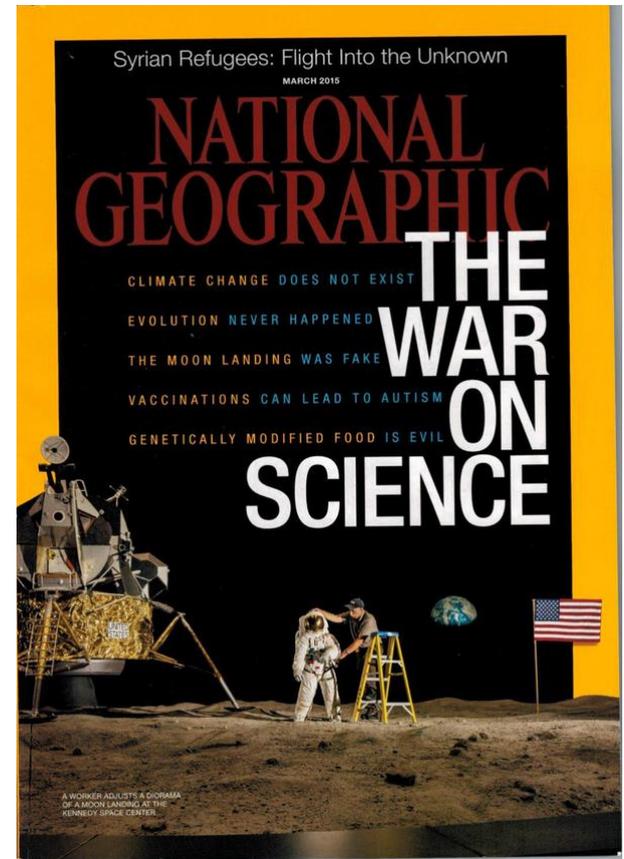
IS THERE A REPRODUCIBILITY CRISIS?



'Post-truth' named 2016 word of the year by Oxford Dictionaries

Britain has had enough of experts, says Gove

Brexit campaigner offers to have disputed EU contribution figure audited



 **Donald J. Trump** 
@realDonaldTrump

 **Following**

I'm not against vaccinations for your children, I'm against them in 1 massive dose. Spread them out over a period of time & autism will drop!

RETWEETS
508

FAVORITES
593



8:10 AM - 4 Sep 2014



 **Donald J. Trump** 
@realDonaldTrump

 **Follow**

The concept of global warming was created by and for the Chinese in order to make U.S. manufacturing non-competitive.

RETWEETS
13,632

FAVORITES
6,746

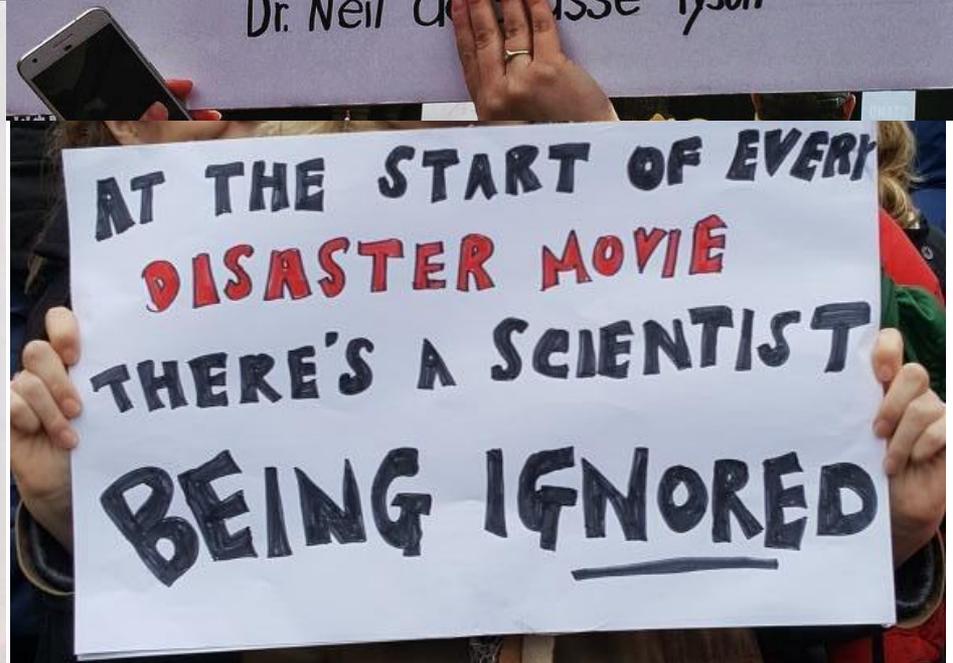


1:15 PM - 6 Nov 2012





What do we Want?
EVIDENCE BASED SCIENCE
When do we Want It?
AFTER PEER REVIEW



Open enough?

- if Open Science is to have any hope of provoking change across disciplinary borders and promoting interdisciplinary openness, it must acknowledge and address cultural differences between scientific communities.
- OS cannot be implemented based on the false assumption that there is only one science to open
- OS can achieve its aim of creating change across disciplinary borders and promote interdisciplinary openness only if it is open enough.

“Is Open Science Open Enough?” (2017) Eivind Engebretsen



UiO : **University of Oslo**

Thank you for your attention

