

# Open Research in a Post-COVID World

**Open Science strategic approaches and  
the importance of open research data**

UEFISCDI Event, Bucharest, 6th October 2020

Daniel Hook, CEO Digital Science



# Setting the scene...

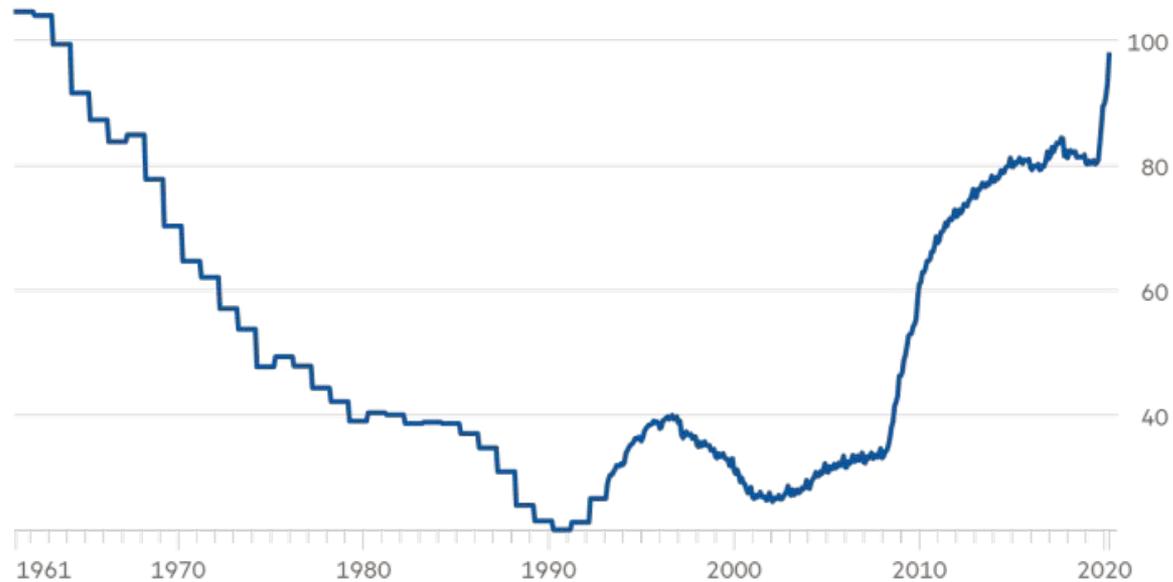
“Prediction is very difficult,  
especially if it is about the  
future”

- *Niels Bohr*

# The research world does not exist in isolation

## Public sector net debt jumps to its highest level since 1963

Public sector net debt as a % of GDP



Source: ONS, OBR  
© FT

<https://www.ft.com/content/c033a266-367c-4cb6-b81f-b2cbf8eb11a3>

# Does funding increase in hard times?

<b>Scenarios</b>	<b>Countries</b>
"Modus operandi"	Czech Republic, Hungary, Lithuania, Malta, Poland, Slovakia
"Empty pocket"	Bulgaria, Cyprus, Greece, Italy, Latvia, Portugal, Romania, Slovenia, Spain
Long-term commitment to R&I policies	Austria, Denmark, Estonia, Finland, France, Germany, Ireland, Luxemburg, the Netherlands, Norway, Sweden, Switzerland, UK

[https://ec.europa.eu/research/innovation-union/pdf/expert-groups/ERIAB\\_pb-Impact\\_of\\_financial\\_crisis.pdf](https://ec.europa.eu/research/innovation-union/pdf/expert-groups/ERIAB_pb-Impact_of_financial_crisis.pdf)

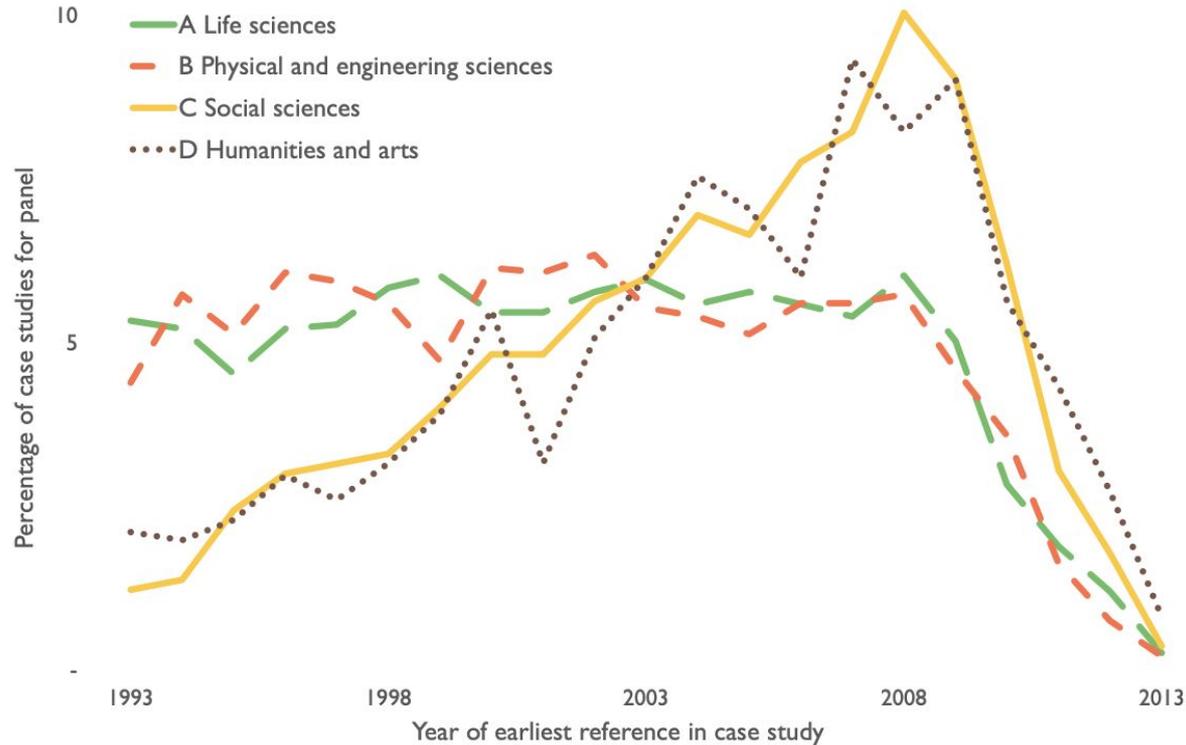
# The UK case...



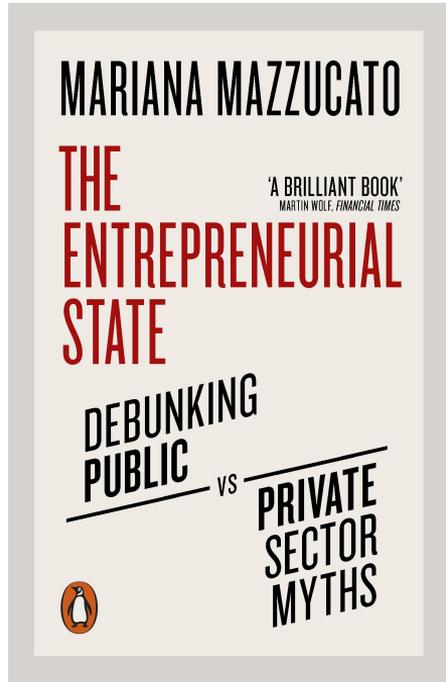
- Increases funding levels (to 2.4% GDP by 2027)
- Distributes the money more evenly
- Pro open science / open research
- Pro impact
  - What is the timescale for impact
  - Will the broad definition that has been developed so far be retained?
- Expectation that UK's research base will help the economic recovery

<https://www.ukri.org/about-us/the-uk-government-r-d-roadmap/>

# The Hare and the Tortoise

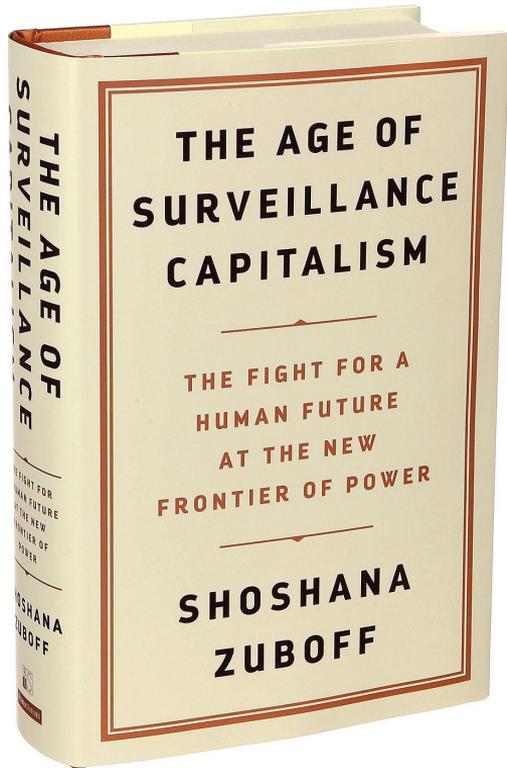


# The Entrepreneurial State



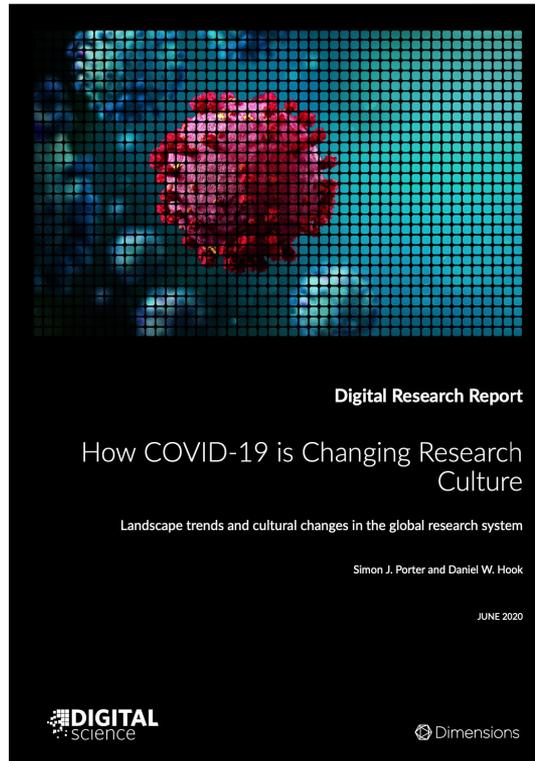
- The State has historically played a critical role in long-term, high-risk research
- This keeps ideas in the public domain so that many players can benefit and innovate

# Brain drains and privatisation of ideas

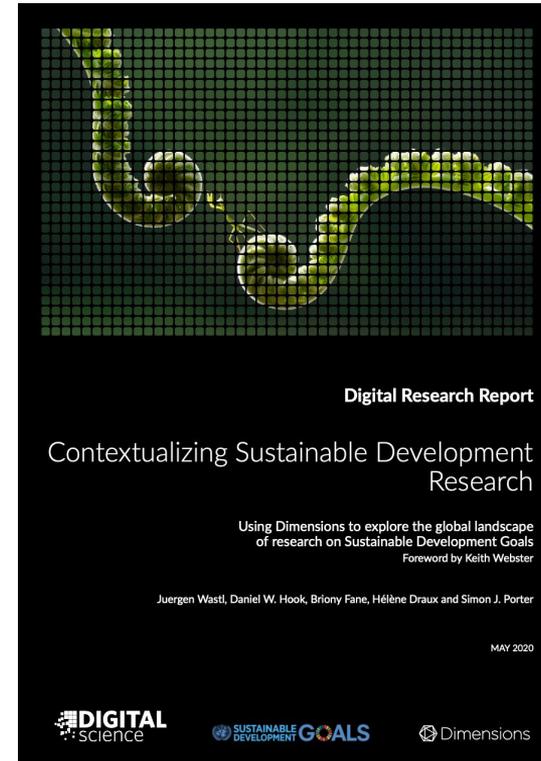


- The “best” companies now offer attractive packages to academics who are not so applied...
  - Freedom to research
  - Funding to explore
  - Financial security in an insecure world
- Ideas go into the private domain
- AI magnifies and skews this situation

# From the present to the future



<https://doi.org/10.6084/m9.figshare.12383267.v2>

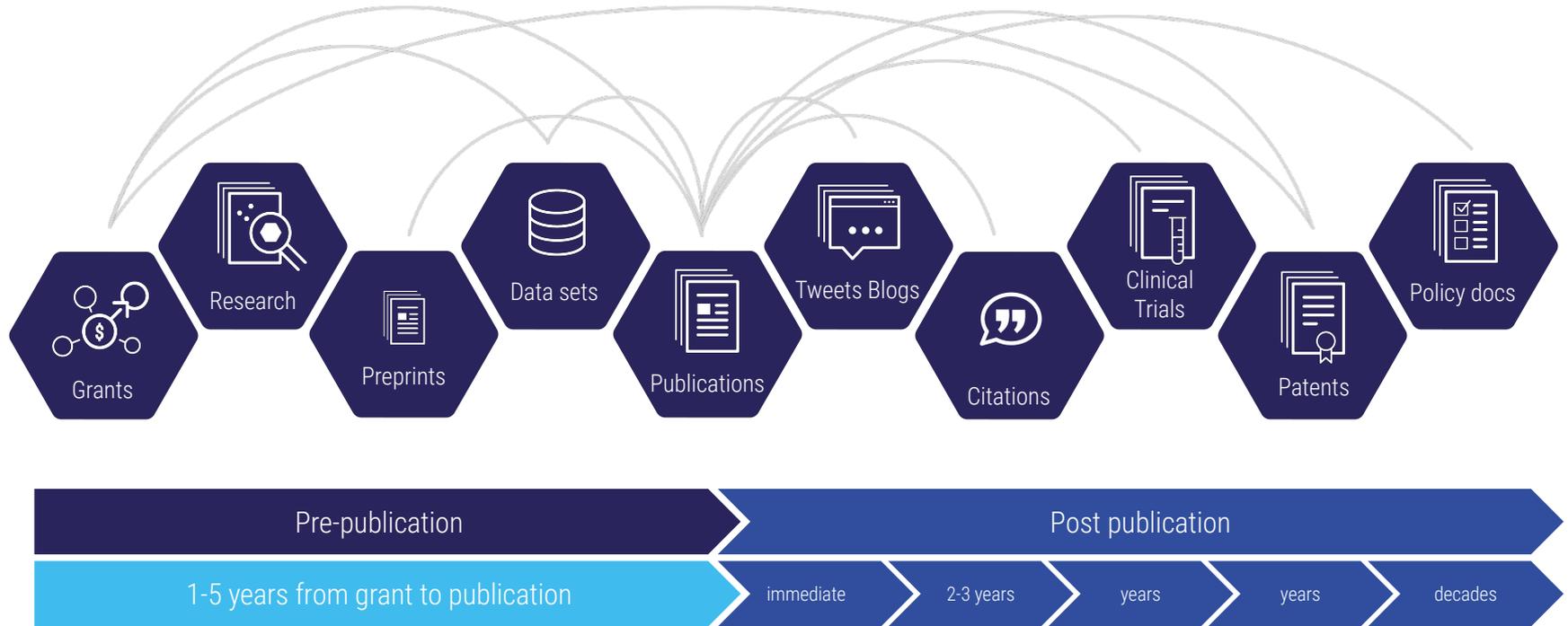


<https://doi.org/10.6084/m9.figshare.12200081.v2>

# In a COVID world, Publications and Citations are not enough...



...we need a broader picture, delivered quickly...



# COVID-19 data

[covid-19.dimensions.ai](https://covid-19.dimensions.ai)

# Dimensions on Google BigQuery



## COVID-19 Dataset of Global Research by Dimensions

Digital Science & Research Solutions Inc

Datasets for COVID19

[VIEW DATA SET](#)

[OVERVIEW](#)

[DOCUMENTATION](#)

[SAMPLES](#)

[SUPPORT](#)

### Overview

This dataset contains all published articles and preprints (over 150k), clinical trials, grants and datasets from Dimensions.ai that are related to COVID-19.

The full metadata includes the researchers and organizations involved, as well as abstracts and open access status. The content has been exported from Dimensions using a query in the openly accessible Dimensions application, which you can access at <https://covid-19.dimensions.ai/>.

### Additional details

Type: [Datasets](#)

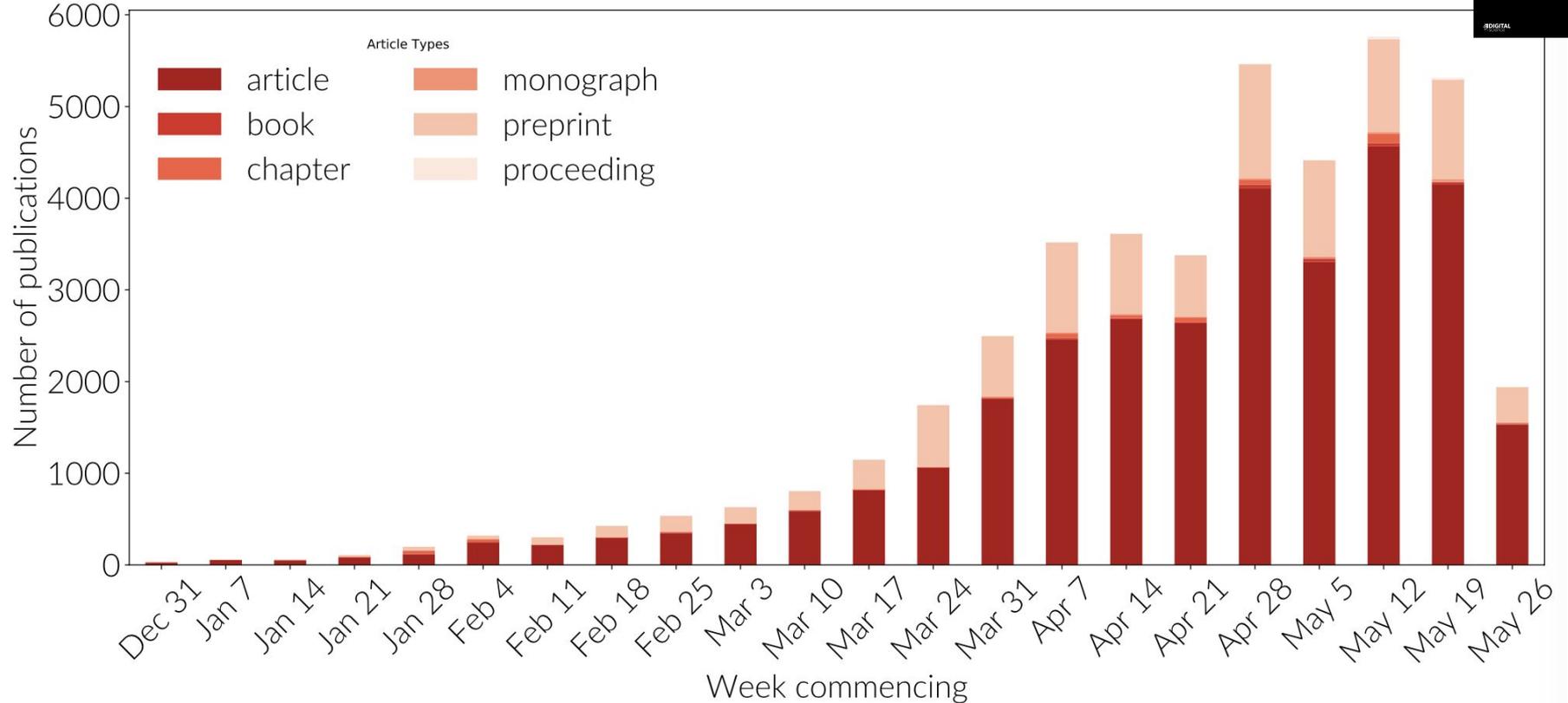
Last updated: 28/09/2020

Category: [Datasets for COVID-19 research](#), [Science & research](#)

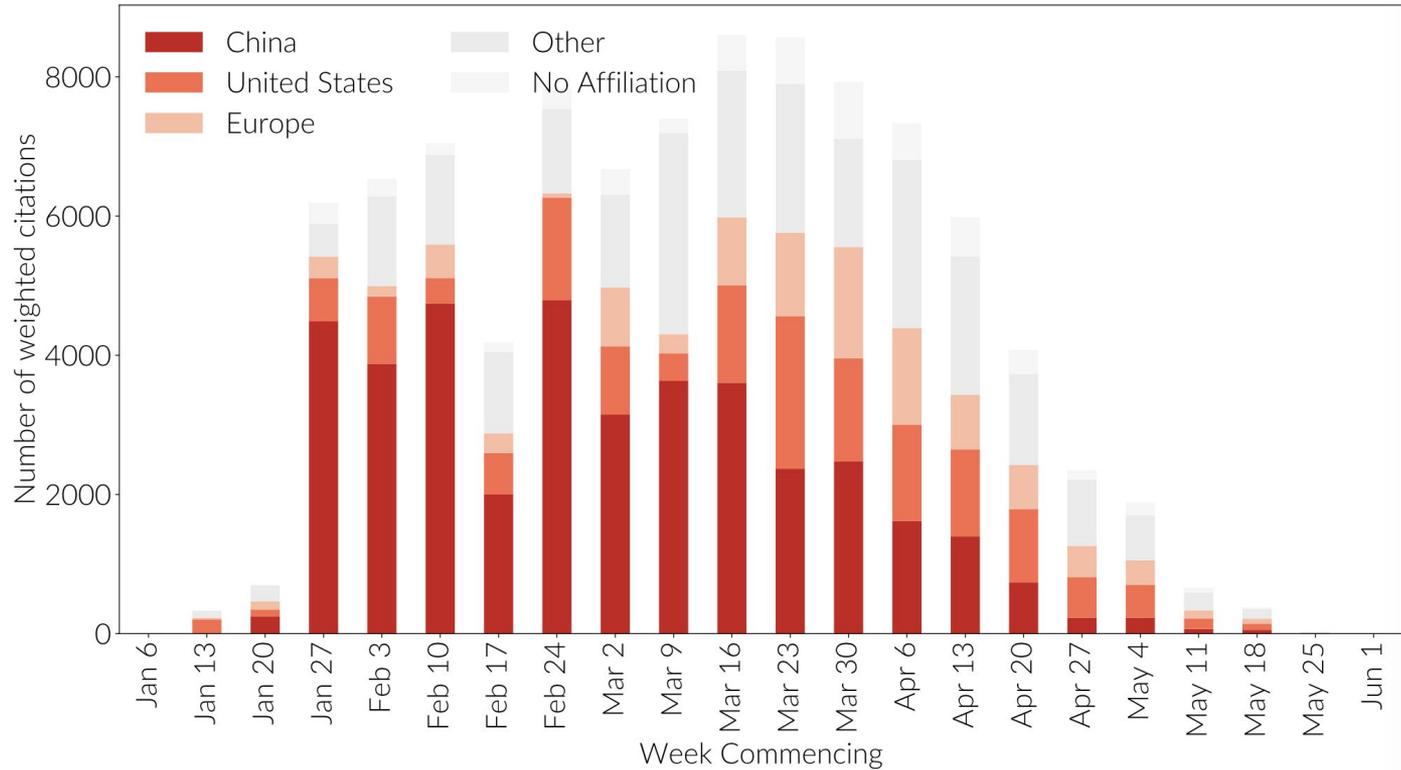
Dataset source: <https://dimensions.ai>

Cloud service: BigQuery

# The establishment of preprints



# The Rise of China



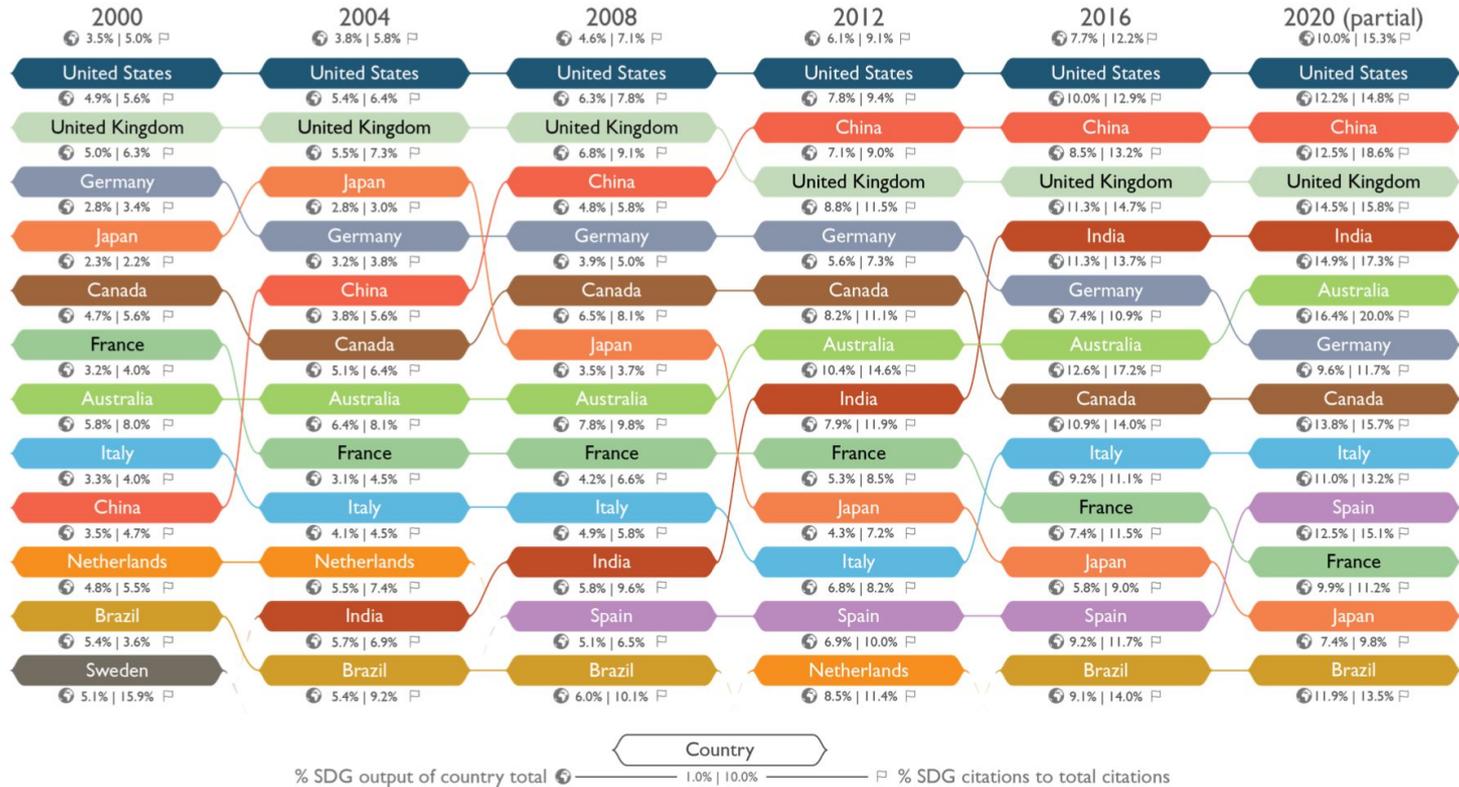
# After COVID, is it time to change priorities?



## SUSTAINABLE DEVELOPMENT GOALS



# Hopes of a green reboot?



# If you're interested in these ideas...

- <https://blogs.lse.ac.uk/impactofsocialsciences/2020/09/01/from-impact-to-inequality-how-post-covid-19-government-policy-is-privatising-research-innovation-2/>
- <https://content.yudu.com/web/tzly/0A441b0/ROoct20/html/index.html?page=38&origin=reader>

Thank you

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