



Dimensions

From Idea to Impact: the Next Evolution
in Linked Scholarly Information

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Re-imagining discovery
and access to research:

Grants, publications,
citations, clinical trials and
patents in one place

Part of **DIGITAL**science

Agenda

1. Introductions
2. Introduction to Dimensions;
3. Enhance your National Bibliography with Dimensions data;
4. Build new services for your community
5. Q&A

*Brainstorming sessions for points 3&4

The screenshot shows the Dimensions website interface. The search bar contains the query "e.g. plastic AND instrument". The page displays a list of publications with the following details:

- PUBLICATIONS:** 105,428,791
- GRANTS:** 4,964,870
- PATENTS:** 39,259,027
- CLINICAL TRIALS:** 500,586
- POLICY DOCUMENTS:** 444,582

The search results are sorted by "Publication Date". The first three results are:

- Dissection of GTPase-activating proteins reveals functional asymmetry in the COP1 coat of budding yeast**
Eric C Arakel, Martina Huranova, Alejandro F Estrada, E-Ming Rau, Anne Spang, Blanche Schwappach
2020, Journal of Cell Science - Article
Citations: 1, Altmetric: 6
- Interneuron Types as Attractors and Controllers**
Gord Fishell, Adam Kepecs
2020, Annual Review of Neuroscience - Article
Citations: 1, Altmetric: 1
- NKG2D/DAP10 Signaling recruits EVL to the cytotoxic synapse to generate F-actin and promote NK cell cytotoxicity**
Katelynn M Wilton, Brittany L Overlee, Daniel D Billadeau
2020, Journal of Cell Science - Article
Altmetric: 1

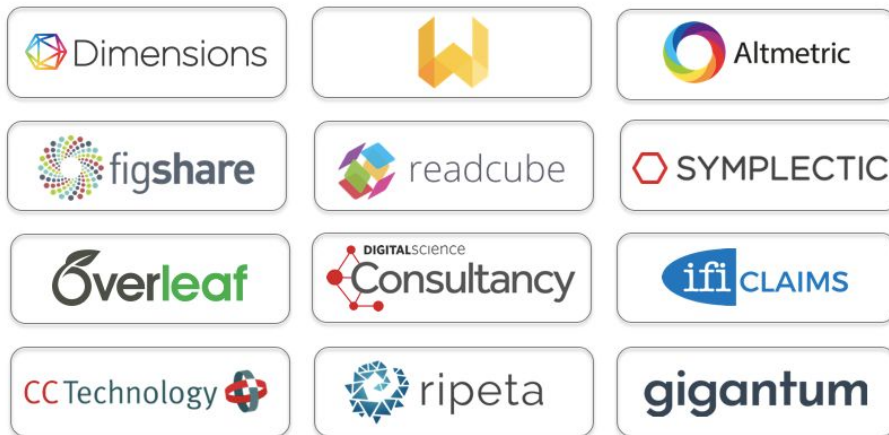
Other visible results include:

- DDX56 inhibits type I interferon by disrupting assembly of IRF3-IPO5 to inhibit IRF3 nucleus import**
Dan Li, Shaozu Fu, Zhengqian Wu, Wenping Yang, Yi Ru, Hongbing Shu, Xiangtao Liu, Haixue Zheng
2020, Journal of Cell Science - Article
Citations: 1
- The use of genetically humanized animal models for personalized medicine approaches**
Annemieke Aartsma-Rus, Maaike van Putten
2020, Disease Models & Mechanisms - Article
Altmetric: 3

At the bottom of the list, there is a link: "At the heart of genetic disease: an interview with Elizabeth McNally".

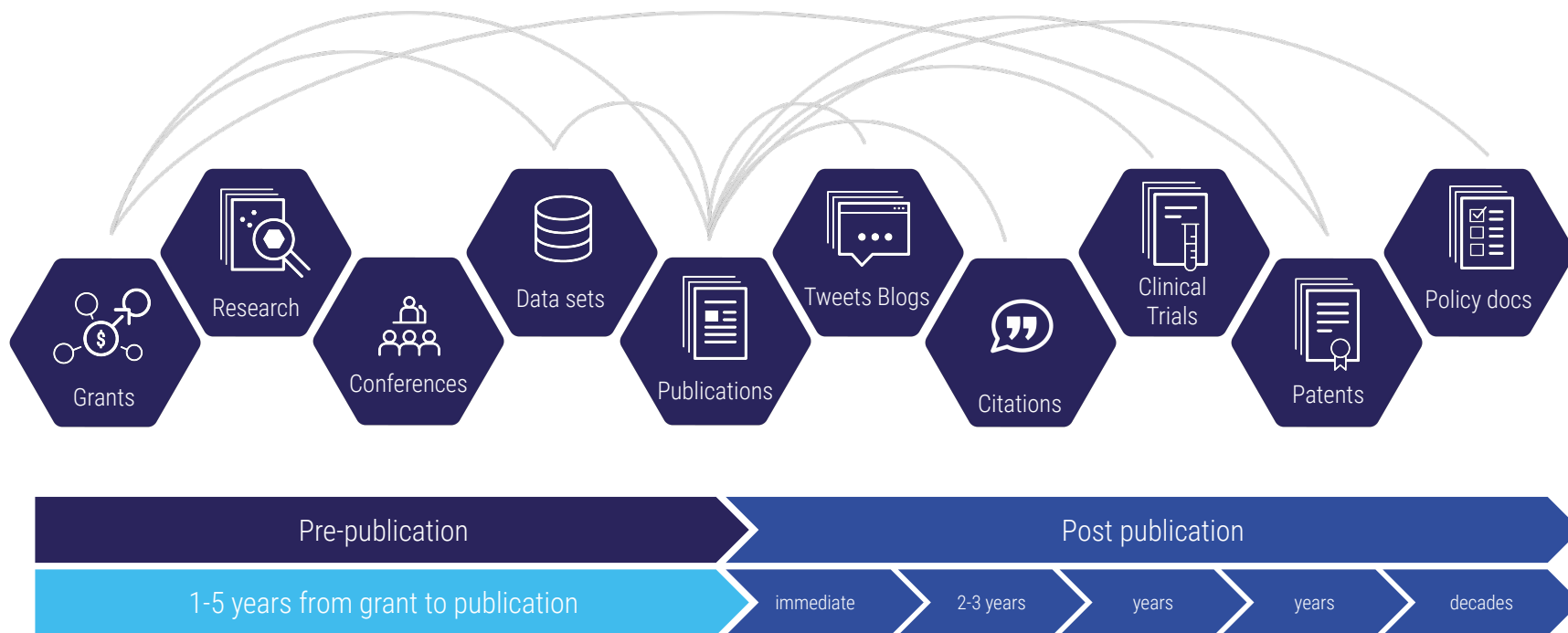
Digital Science – a portfolio of innovative companies

- Digital Science invests, supports and nurtures small innovative software companies
- Rooted in research, most founders come from an academic background, started a company around solving a self encountered problem
- Key principle: provide latitude, enable entrepreneurial spirit and activity, mix of ‘leaving alone’, ‘subtle guiding’, ‘having their backs’ and ‘open arguments’ like in every healthy family
- Started in 2009, invested in and started 12 companies, to date about 300 colleagues

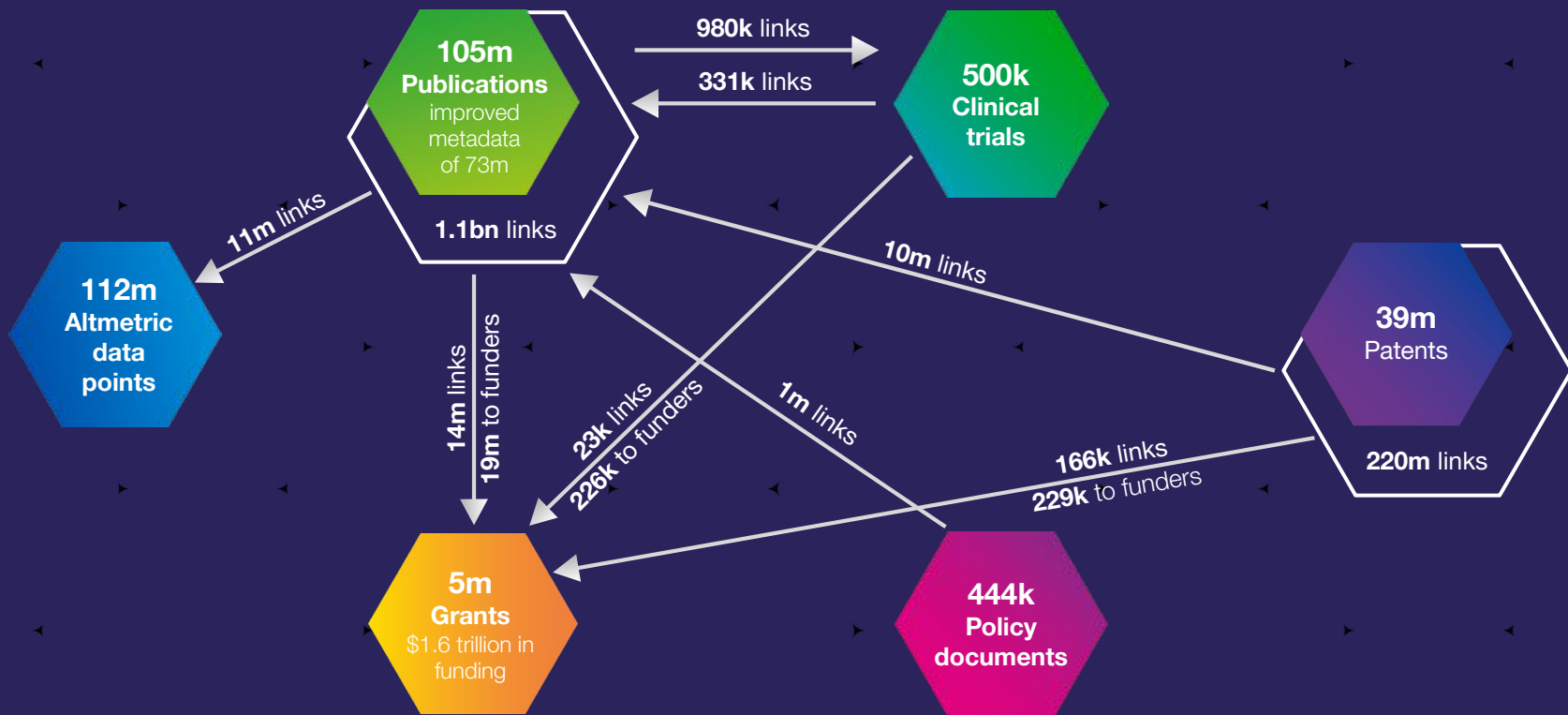


Introduction to Dimensions

The complex research ecosystem

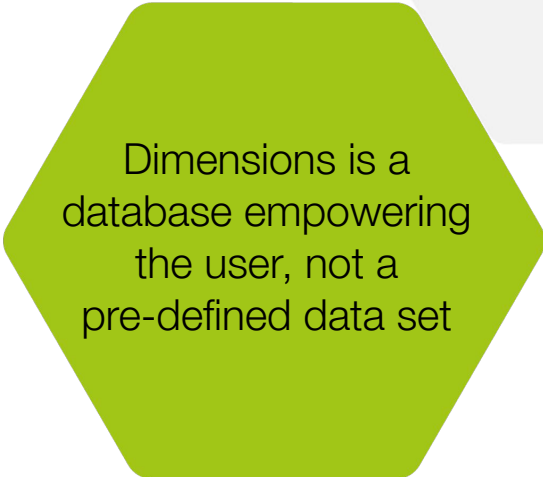


The data and links driving Dimensions...



What does 'inclusive approach' mean?

- We are not excluding research outputs based on a content selection process
- Dimensions is a database, not a judgement call - the user should be able to make inclusion / exclusion decisions
- Dimensions contains more records than traditional A&I databases based on the conscious decisions to not be selective
- We provide tools to the user to make the appropriate coverage decisions depending on their use case



Dimensions is a database empowering the user, not a pre-defined data set

Publications (1/2) - Publication metadata backbone



PUBLICATIONS

- Journal articles, pre-prints and books/book chapters
- 100M + records based on metadata
- Metadata and citations derived from multiple available databases
- OA tagging
- Rule-based document type identification

JOURNALS / BOOKS



PRE-PRINT / OA



Pipeline 2019/20



Publications (2/2) - Full text processing



PUBLICATIONS

- Full text for 70M+ publications currently
- Direct relationships with >130 publishers
- Increased discoverability through
 - Full text index
 - Openly available discovery interface
- Highly contextualised
 - Related grants, publication references, related trials, related patents, related policy documents
 - Improved representation compared to the 'backbone' records

					
					
					
					
					
					
					and 90+ other publishers

Grants data



GRANTS

- Project funding
- 5M grants from 430+ funders globally
- \$1.6 trillion of funding
- Sourcing
 - Direct relationships with funders
 - Data available via APIs
 - Data available via websites which we crawl

app.dimensions.ai

Dimensions

MY ACCOUNT

- General settings
- Set currency
- ORCID information
- Set export format
- Export center

ABOUT DIMENSIONS

- Dimensions
- About the grants data**
- Acknowledgements
- Privacy Policy
- Legal Terms

About the grants data

Dimensions checks all sources of grant data for new data each month. The latest data update was in May 2019. Individual funder data is available in the current release. The grant data contained in the current release is detailed below.

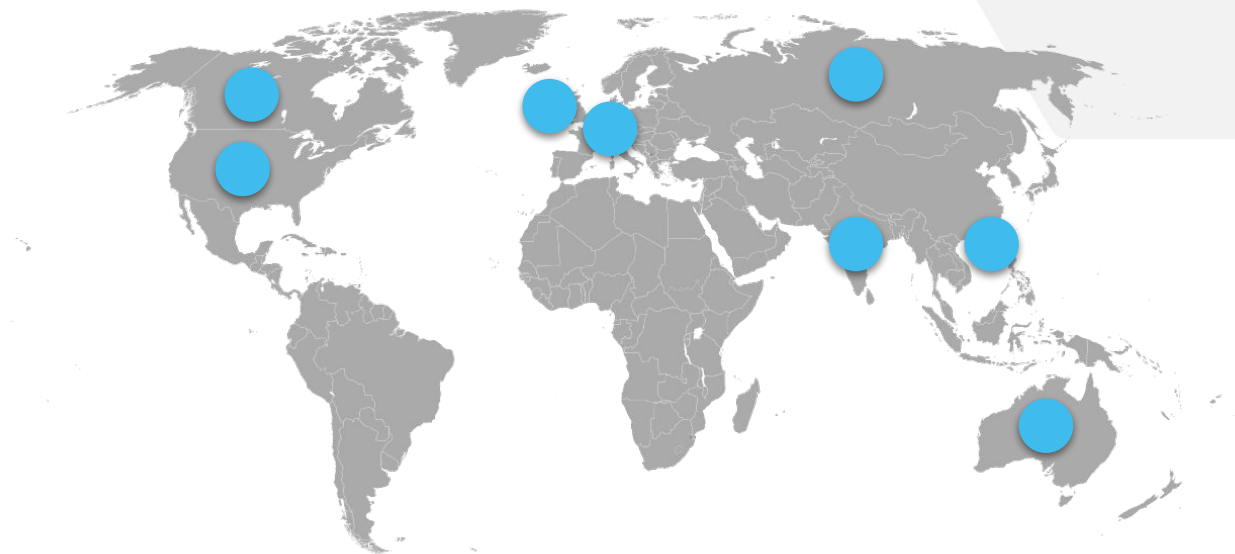
Funder	GRID ID	Country
Japan Society for the Promotion of Science (JSPS)	grid.54432.34	Japan
National Natural Science Foundation of China (NSFC)	grid.419696.5	China
Natural Sciences and Engineering Research Council (NSERC)	grid.452912.9	Canada
National Research Foundation (NRF)	grid.425534.1	South Africa
Russian Foundation for Basic Research (RFBR)	grid.452899.b	Russia
Federal Ministry of Education and Research (BMBF)	grid.5586.e	Germany
German Research Foundation (DFG)	grid.424150.6	Germany
European Commission (EC)	grid.270680.b	Belgium
Directorate for Mathematical & Physical Sciences (NSF MPS)	grid.457875.c	United States
Social Sciences and Humanities Research Council (SSHRC)	grid.183804.6	Canada
Directorate for Engineering (NSF ENG)	grid.457810.f	United States
Swiss National Science Foundation (SNF)	grid.425888.b	Switzerland
National Endowment for the Humanities (NEH)	grid.422239.c	United States
National Science Foundation (NSF)	grid.431093.c	United States

Patents data



PATENTS

- US
- EP
- WIPO
- DE
- CA
- IN
- AU
- GB
- FR
- Hong Kong
- Russia



...China/Japan will be the next to be added.

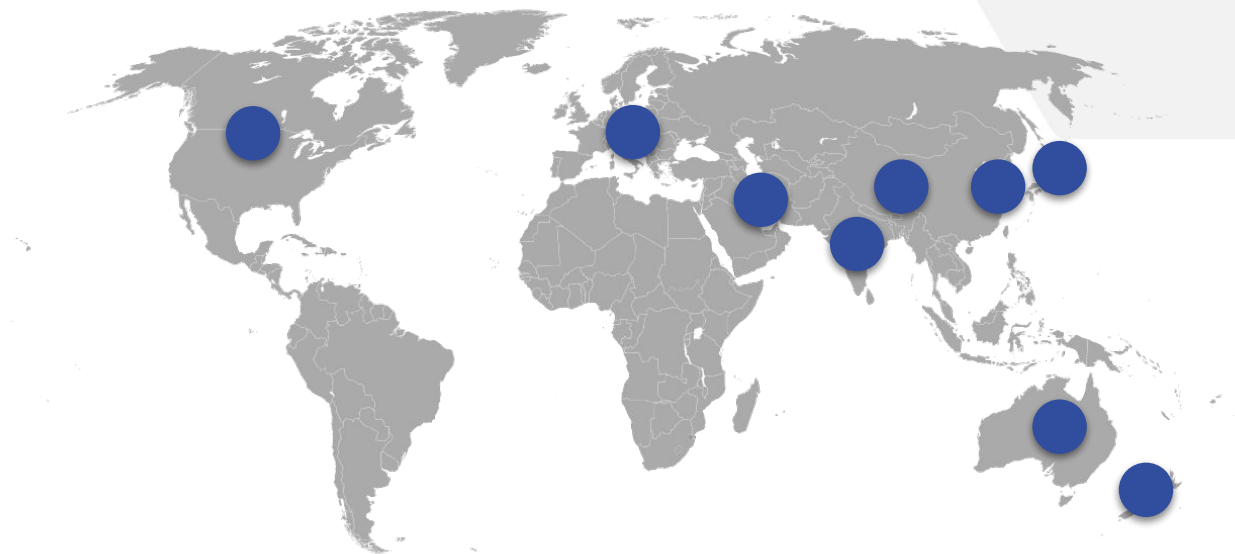
Clinical trials data



CLINICAL TRIALS

- ClinicalTrials.gov
- EU-CTR
- UMIN-CTR
- ISRCTN
- ANZCTR
- CHICTR
- NTR
- GCTR
- CTRI
- CRIS
- IRCT

... and more are coming



Policy documents data



POLICY DOCUMENTS

Over 400,000 policy document records, linked to publications

Including but not limited to:

- World Health Organization
- World Bank
- Centers for Disease Control & Prevention
- Government of the United Kingdom
- National Bureau of Economic Research

The screenshot shows the Dimensions app interface. The search bar contains 'e.g. plastic AND instrument'. The results are categorized by type: PUBLICATIONS (102,284,854), GRANTS (4,891,570), PATENTS (38,775,843), CLINICAL TRIALS (466,500), and POLICY DOCUMENTS (423,115). The results are sorted by 'Publication Date'. The first result is 'Regulatory options for conflicts of law and jurisdictional issues in the on-demand economy' (2019, International Labour Organization). Other results include 'Decisions adopted by the Governing Body at its 336th Session (June 2019) and outcomes of the discussions', 'Investment Treaty News (ITN), Volume 10, Issue 2, June 2019', 'Shattered opportunity: how scrapping negative gearing will smash the middle class', 'Contempt of court: consultation paper', 'Microclimate and urban heat island mitigation decision-support tool (project short report)', 'Cooling Sydney Strategy: planning for Sydney 2050', 'How do health practitioners in a large Australian public hospital identify and respond to reproductive abuse? A qualitative study', and 'There is an alternative: ending austerity in the UK'.

Indicators in Dimensions - close to the data



...with an invitation to the bibliometric community to do research about innovative research indicators on the Dimensions data and tool platform since Digital Science does not want to impose new indicators

* planned for future release

Free data access for the scientometric community

- We believe it is the role of Dimensions to ensure the scientometrics community has access to the information it needs to develop open, transparent research indicators.
- We offer free access to Dimensions data for non-commercial scientometric research projects.
- Support provided via email, office hours with Dimensions data scientists, and in-person meetings at conferences.
- Opportunities to collaborate with Digital Science on both scientometric studies and projects that improve Dimensions data for all.



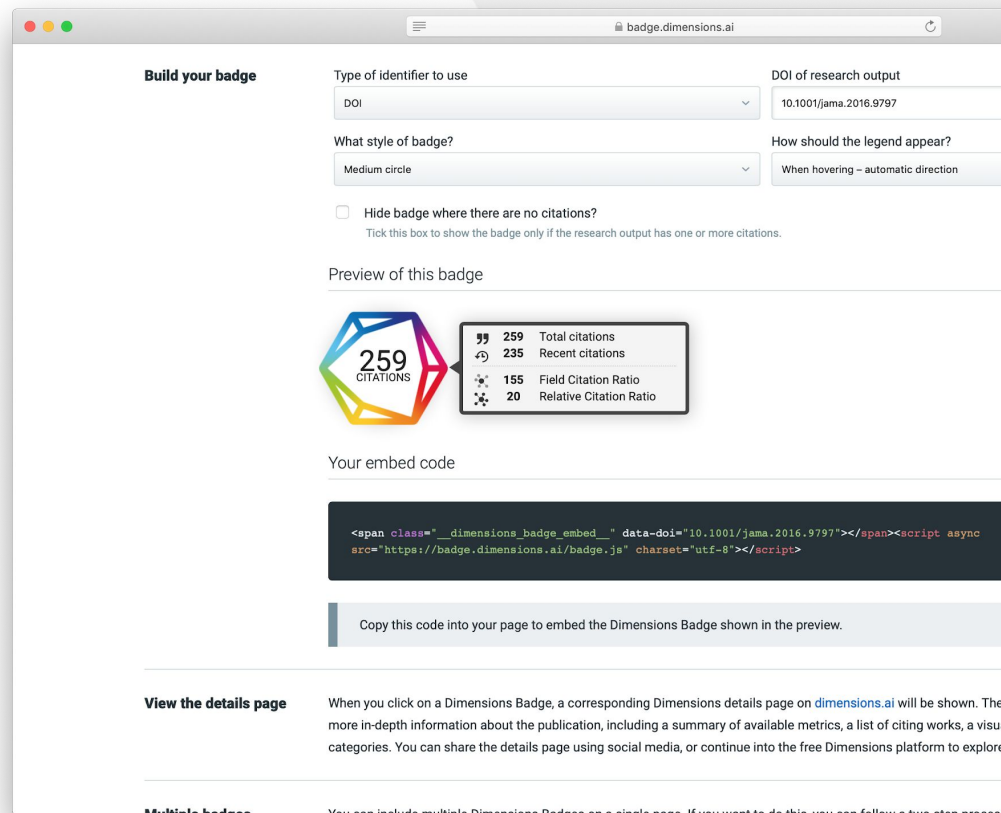
Dimensions Badges and open Metrics API

Dimensions is making publication and citation data available - also via badges and as an open metrics API

Used by 200+ publishers and organizations



Start using it today at badge.dimensions.ai



Build your badge

Type of identifier to use:

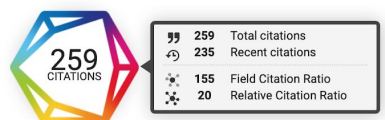
DOI of research output:

What style of badge?:

How should the legend appear?:

Hide badge where there are no citations?
Tick this box to show the badge only if the research output has one or more citations.

Preview of this badge



Your embed code

```
<span class="__dimensions_badge_embed__" data-doi="10.1001/jama.2016.9797"></span><script async src="https://badge.dimensions.ai/badge.js" charset="utf-8"></script>
```

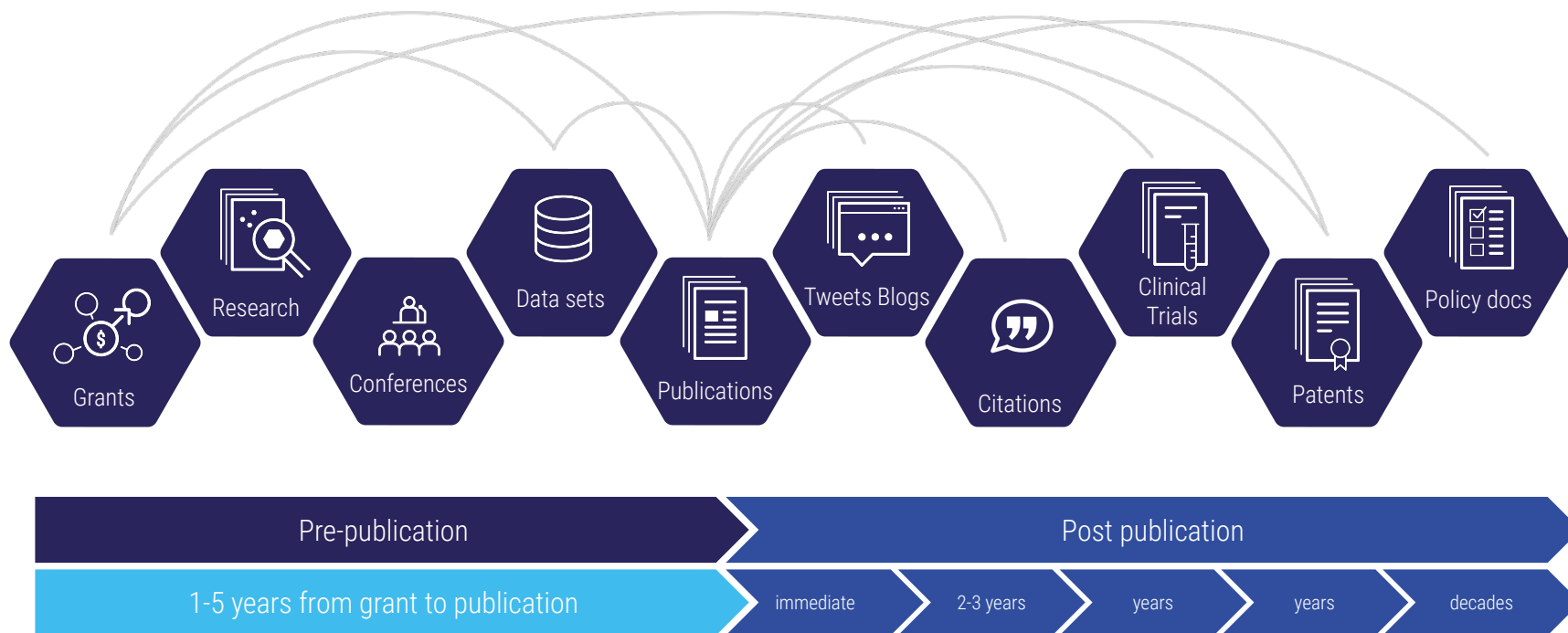
Copy this code into your page to embed the Dimensions Badge shown in the preview.

View the details page When you click on a Dimensions Badge, a corresponding Dimensions details page on dimensions.ai will be shown. The more in-depth information about the publication, including a summary of available metrics, a list of citing works, a visual categories. You can share the details page using social media, or continue into the free Dimensions platform to explore

Multiple badges You can include multiple Dimensions Badges on a single page. If you want to do this you can follow a two-step process

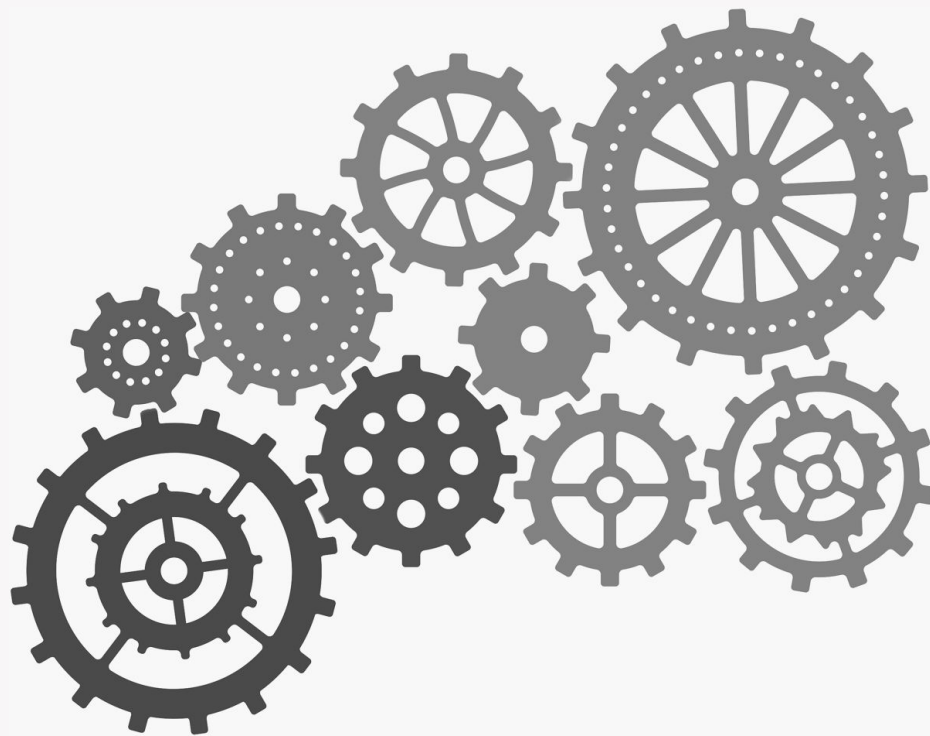
Enhance your National Bibliography with Dimensions data

Are identifiers needed?



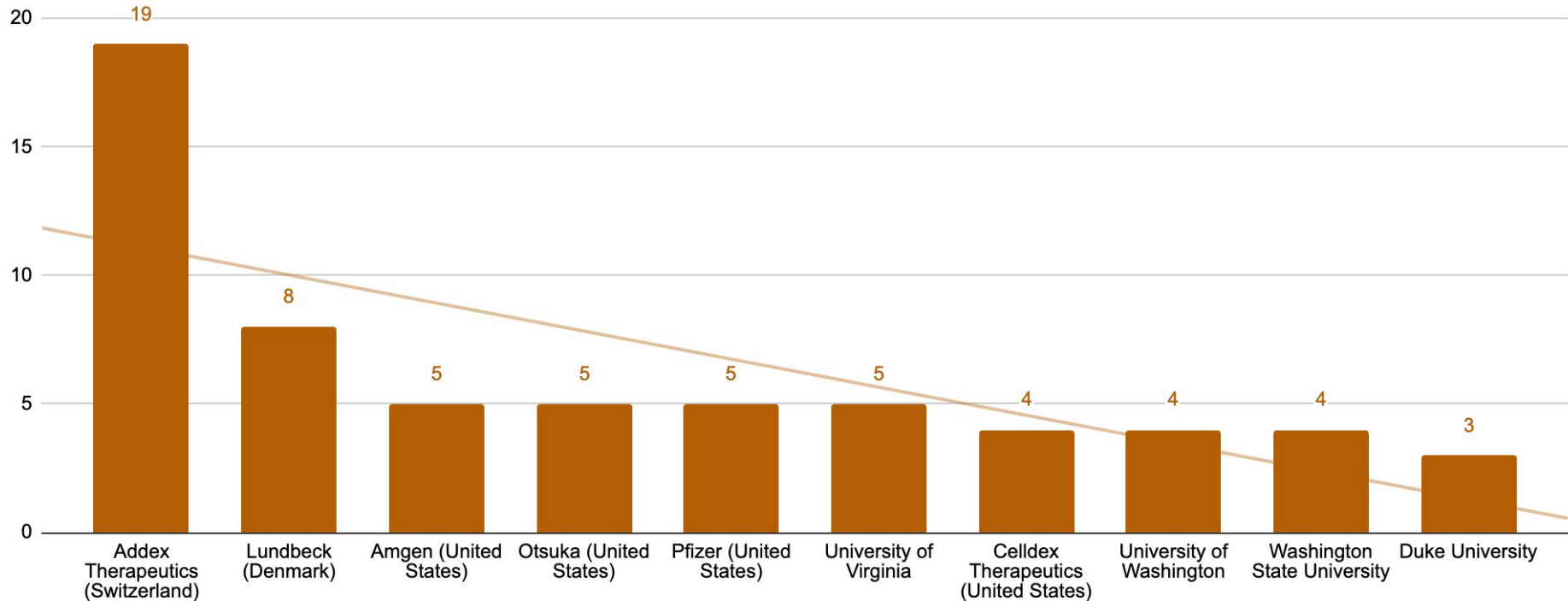
Curated metadata

- Fill in missing publication metadata
- Automate publication core update
- Categorize holding using existing categorization systems
- Discover linkages with other content types
- Uncover correlations between different content types
- Build new services



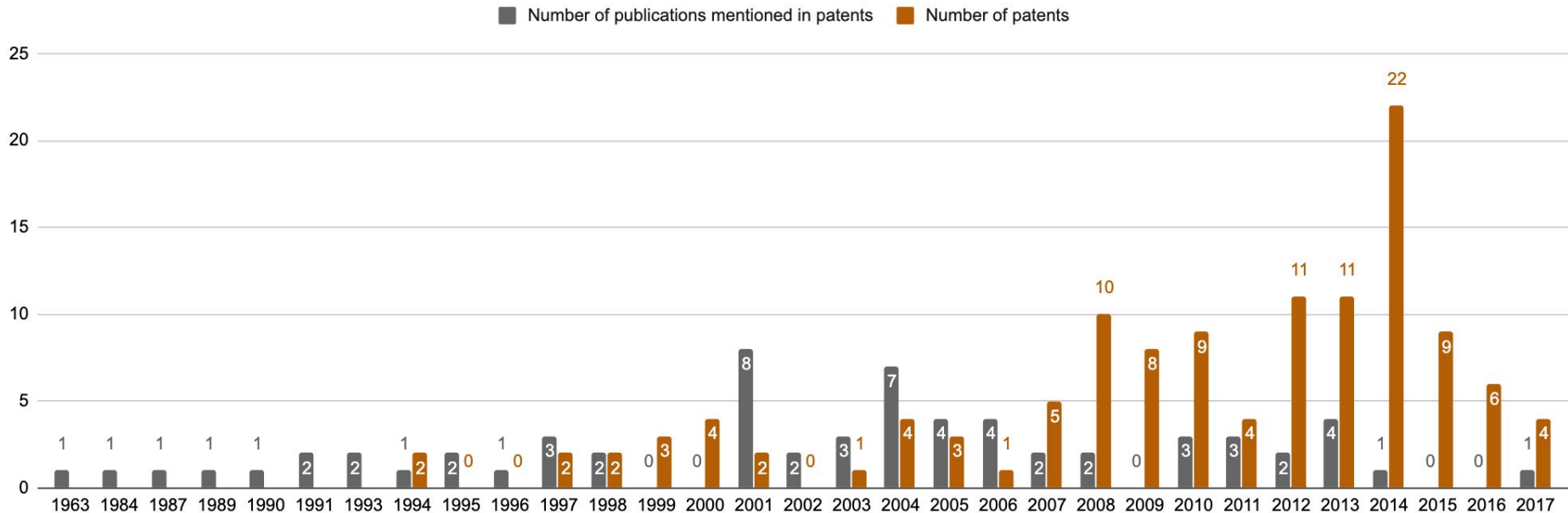
Who mentions Polish pubs in FoR (17) Psychology and Cognitive Sciences?

Top 10 assignees mentioning Polish publications in FoR (17) Psychology and Cognitive Sciences



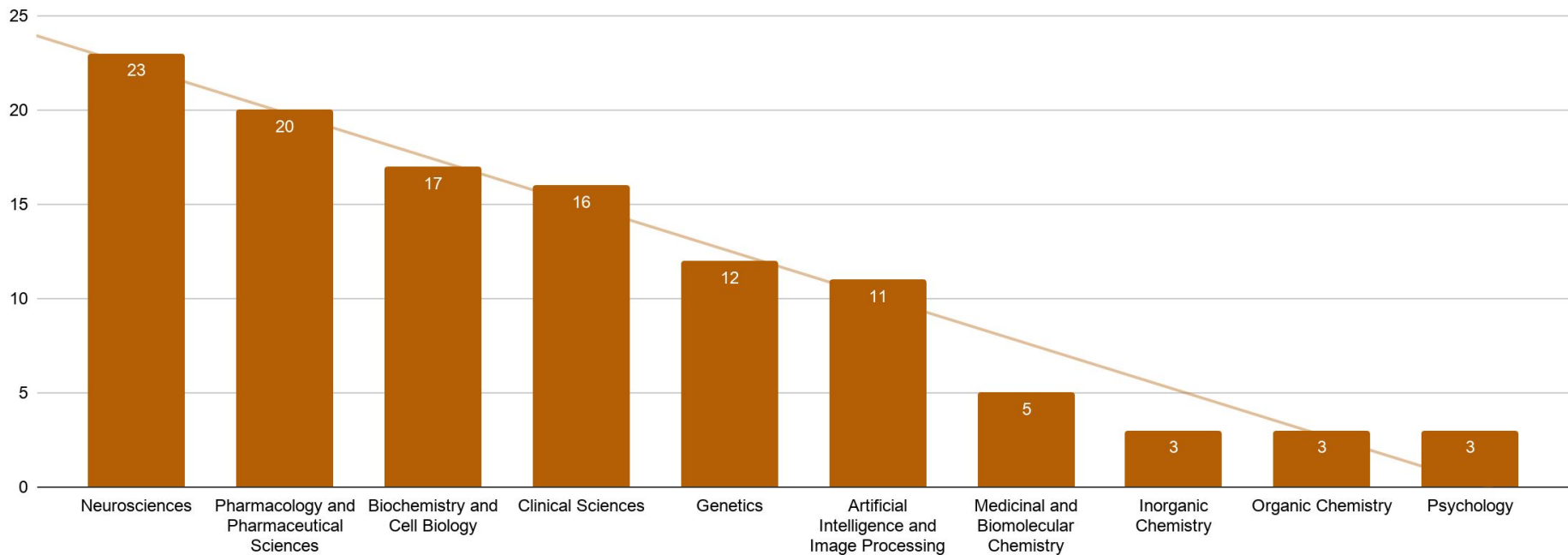
Any correlations between date of publication and date of mention?

Distribution of Polish publications in FoR (17) Psychology and Cognitive Sciences vs distribution of patents



Disciplines influenced

Top 10 FoRs of patents mentioning Polish publications in FoR (17) Psychology and Cognitive Sciences



Polish publications in **FoR (17) Psychology and Cognitive Sciences** have been mentioned in policy documents **247** times.

Brainstorming

- Form groups
- What would you want an A&I database to help you with?
- Categories:
 - data curation
 - data enhancement.

5 minutes

- Debate

15 minutes



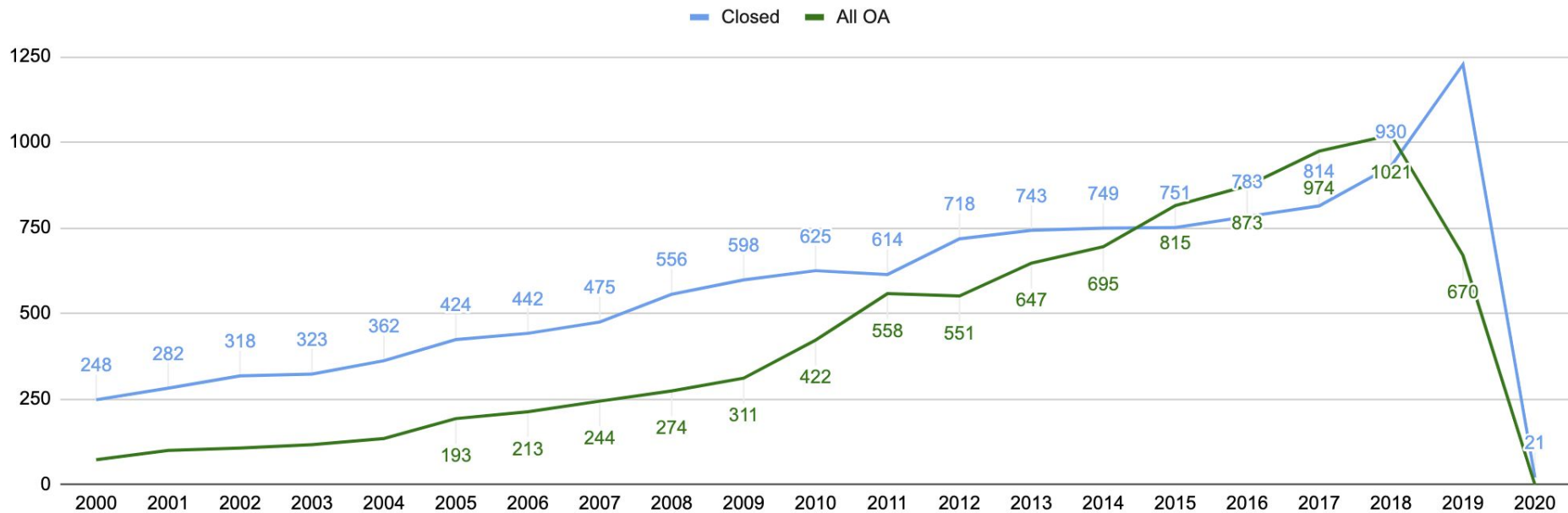
Designed by [Tony Babel](#)

Build new services for your
community

Country level OA analysis (Belgium)

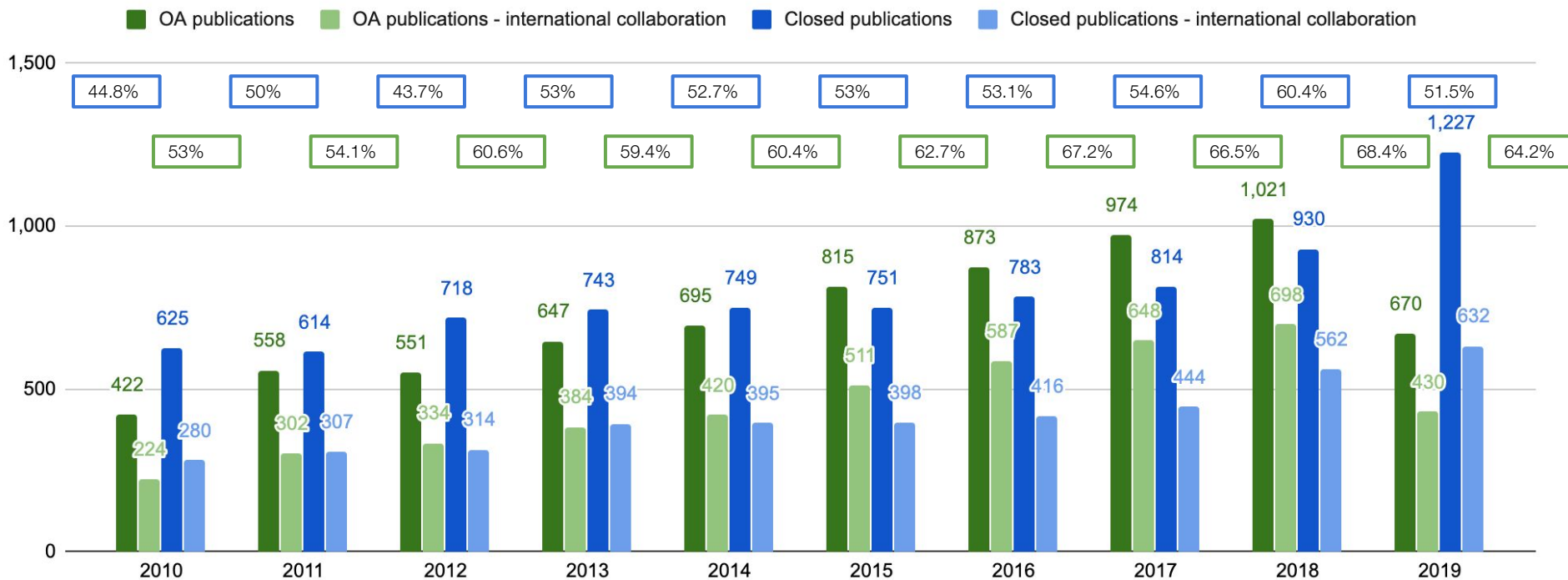
Evolution of OA

Distribution of OA vs Closed publication in FoR (17) Psychology and Cognitive Sciences in Belgium



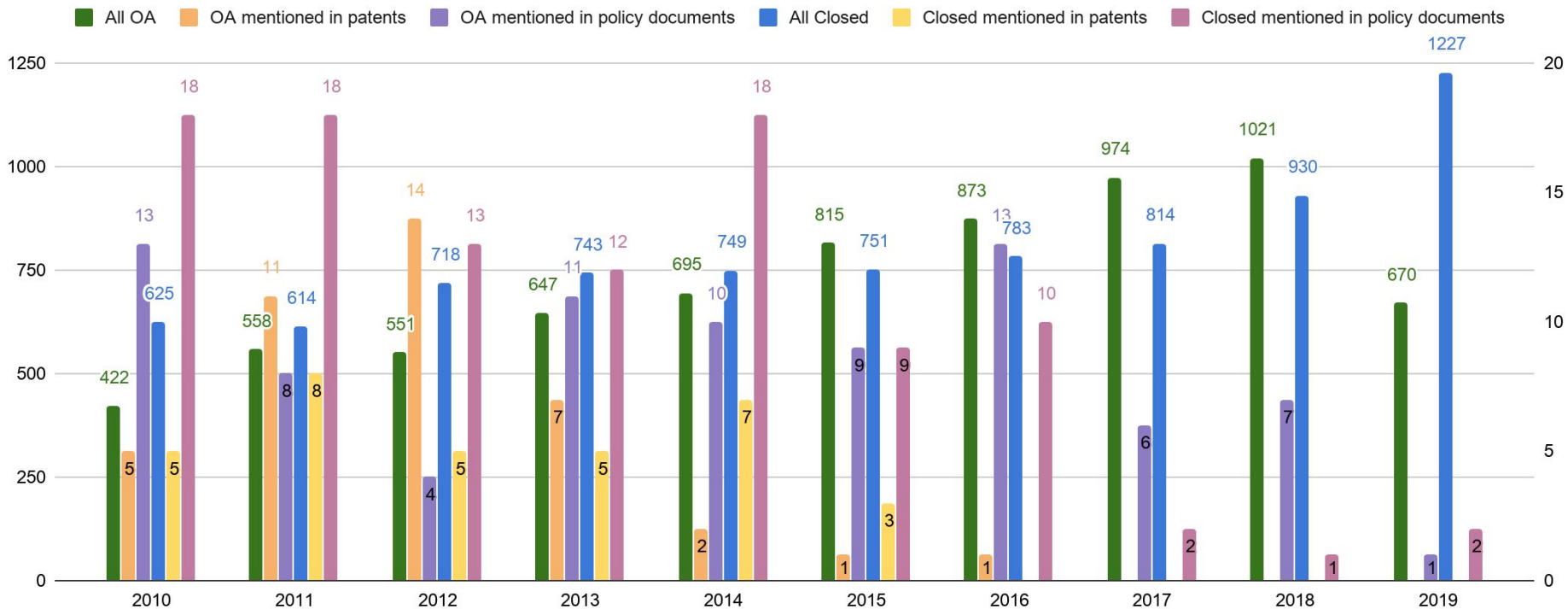
Evolution of OA

Belgium - international collaboration trends in FoR (17) Psychology and Cognitive Sciences, OA vs Closed, 2010-2019



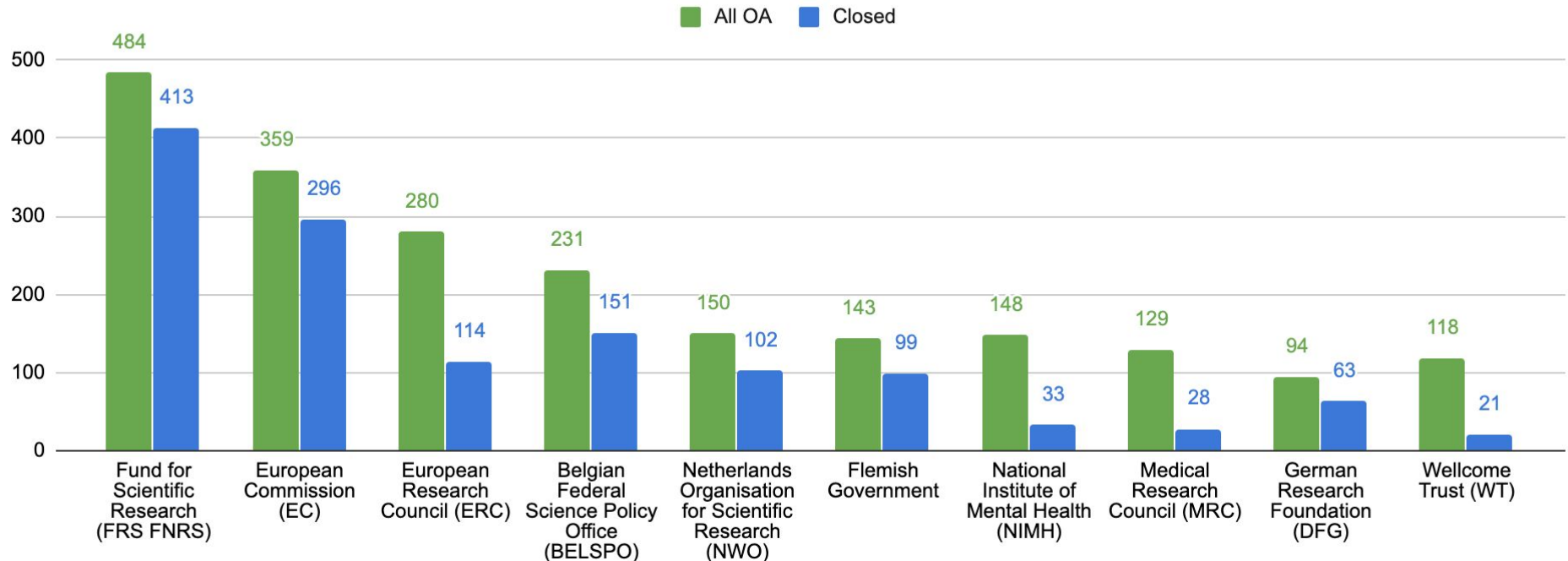
Evolution of OA

Societal impact of Belgian publications in FoR (17) Psychology and Cognitive Sciences, OA vs Closed, 2010-2019



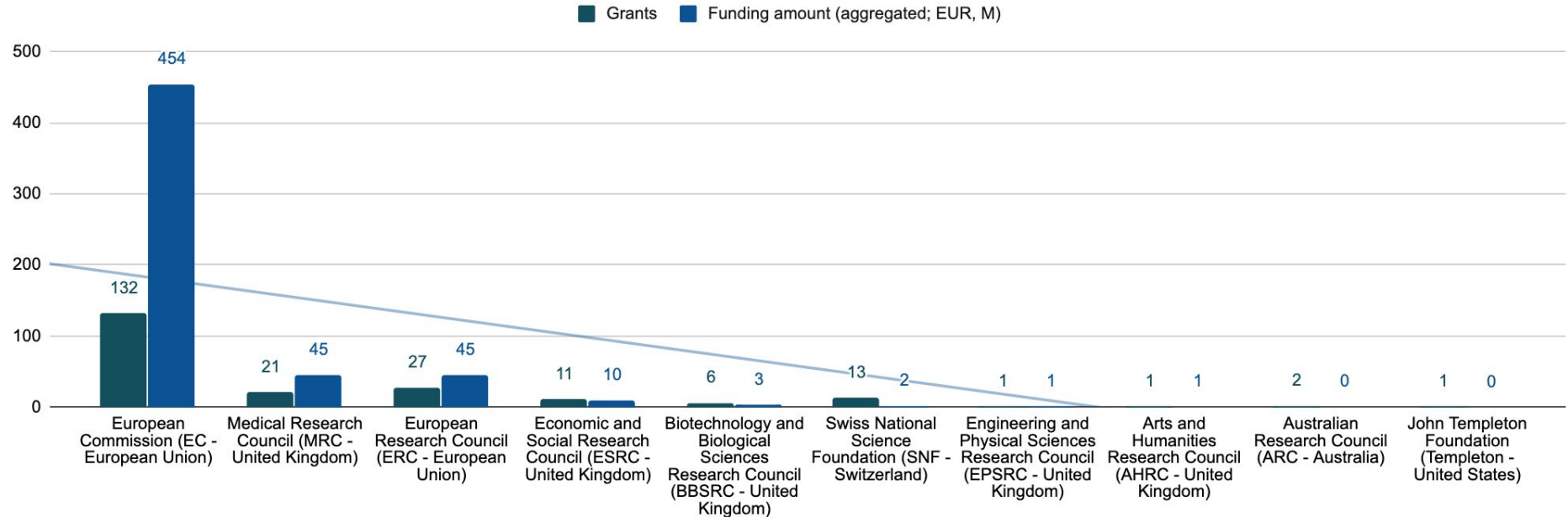
Top acknowledged funders

Belgium - Funding trends in FoR (17) Psychology and Cognitive Sciences, OA vs Closed, 2010-2019



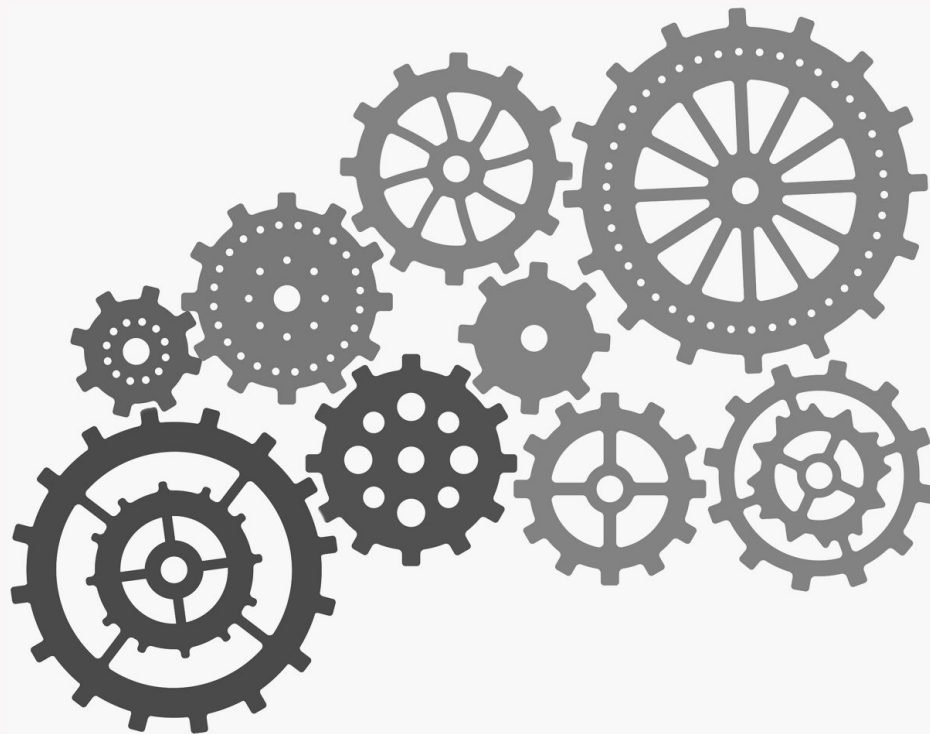
Top funders

Top funders of Belgium research in FoR (17) Psychology and Cognitive Sciences, OA vs Closed, 2010-2049



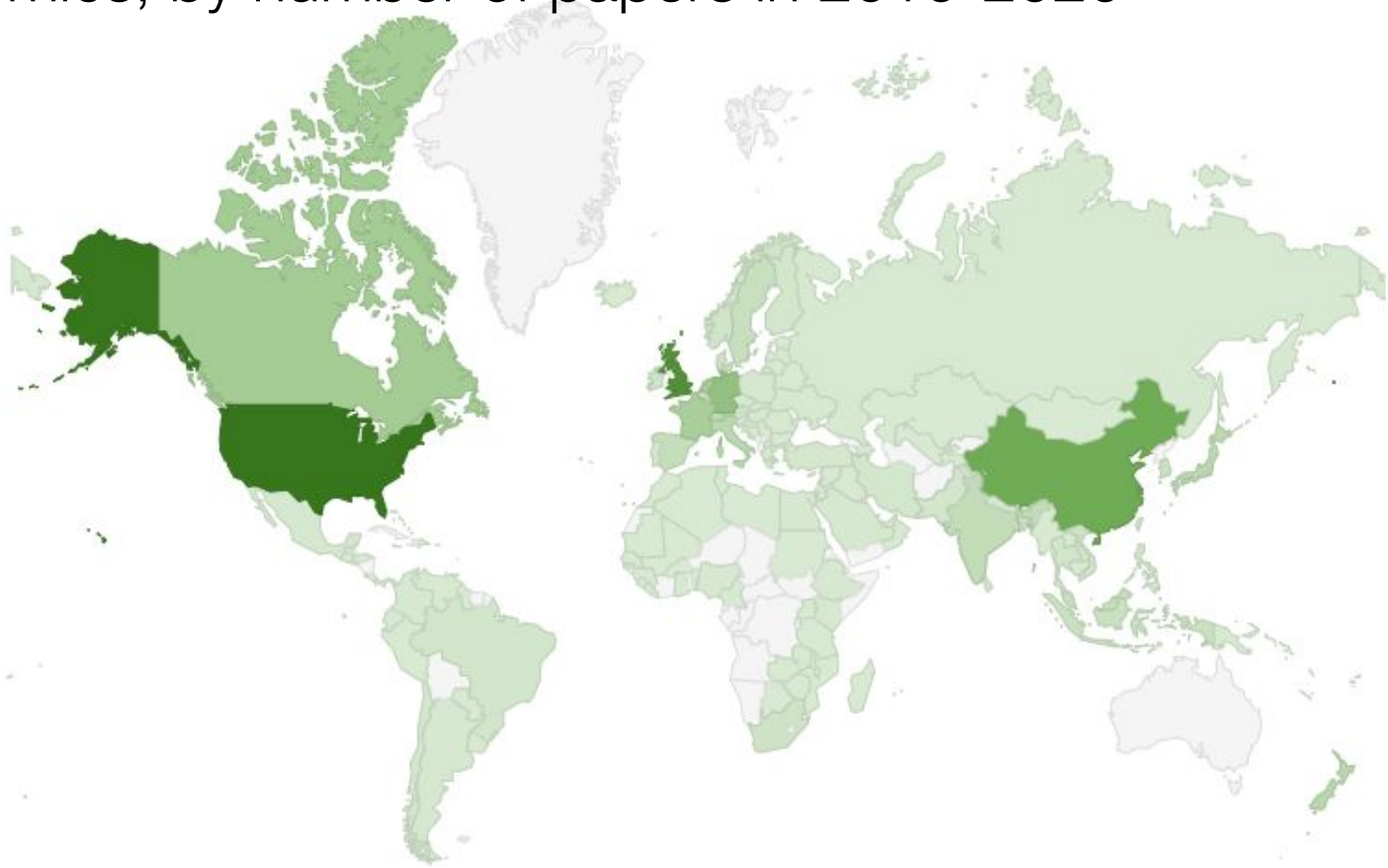
Building new services

- Subscription negotiations
- Reports
- OA patterns
- Customize impact analysis
- Proactive strategy
- Contextualize impact patterns
- Connect universities and corporates



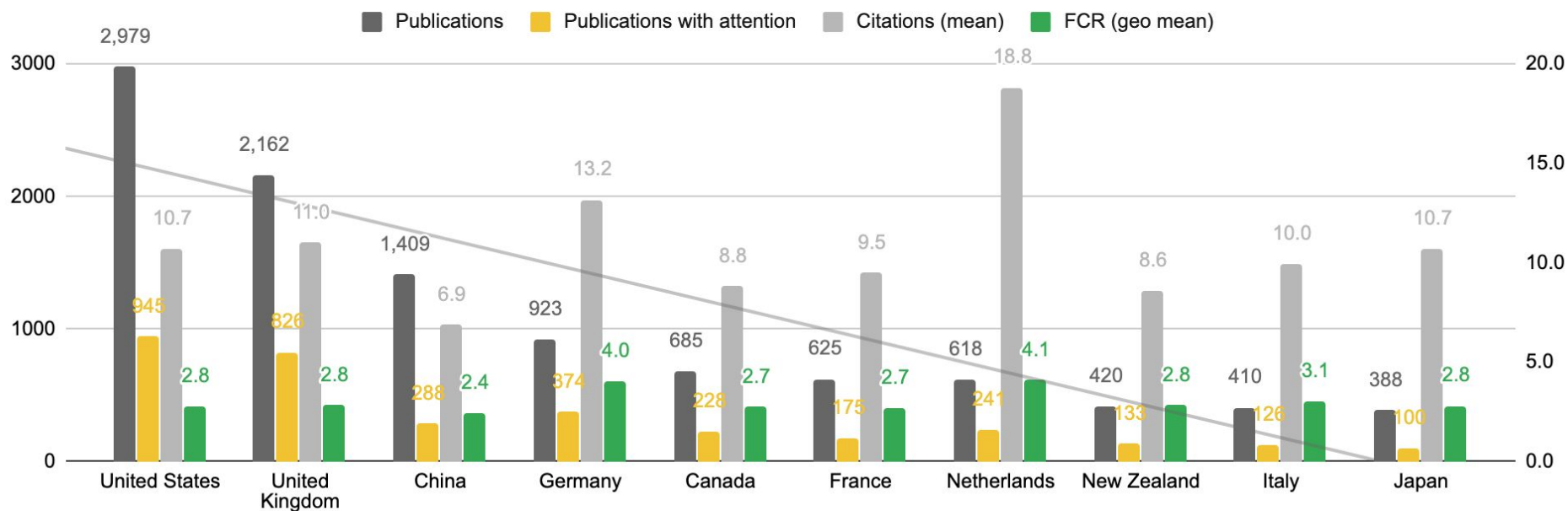
Analysing collaboration (Australia)

Mapping collaborators of Australian researchers in FoR (14) Economics, by number of papers in 2010-2020



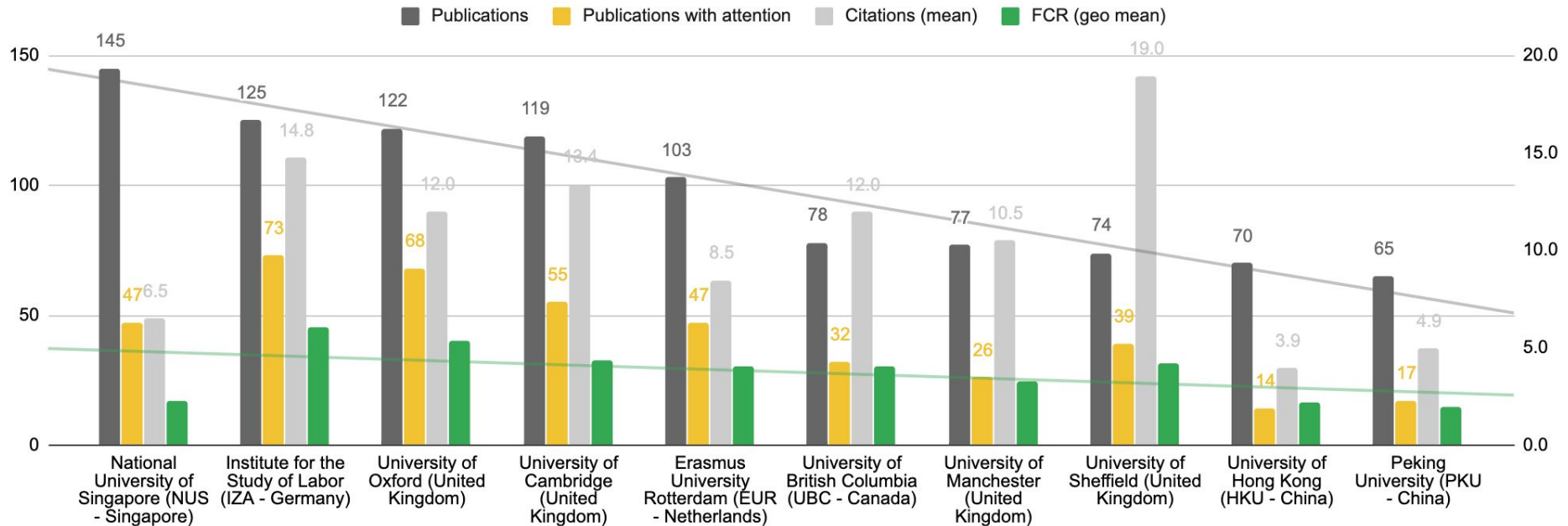
Top collaborators

Top country collaborators of Australian researchers in FoR (14) Economics, by number of papers in 2010-2020



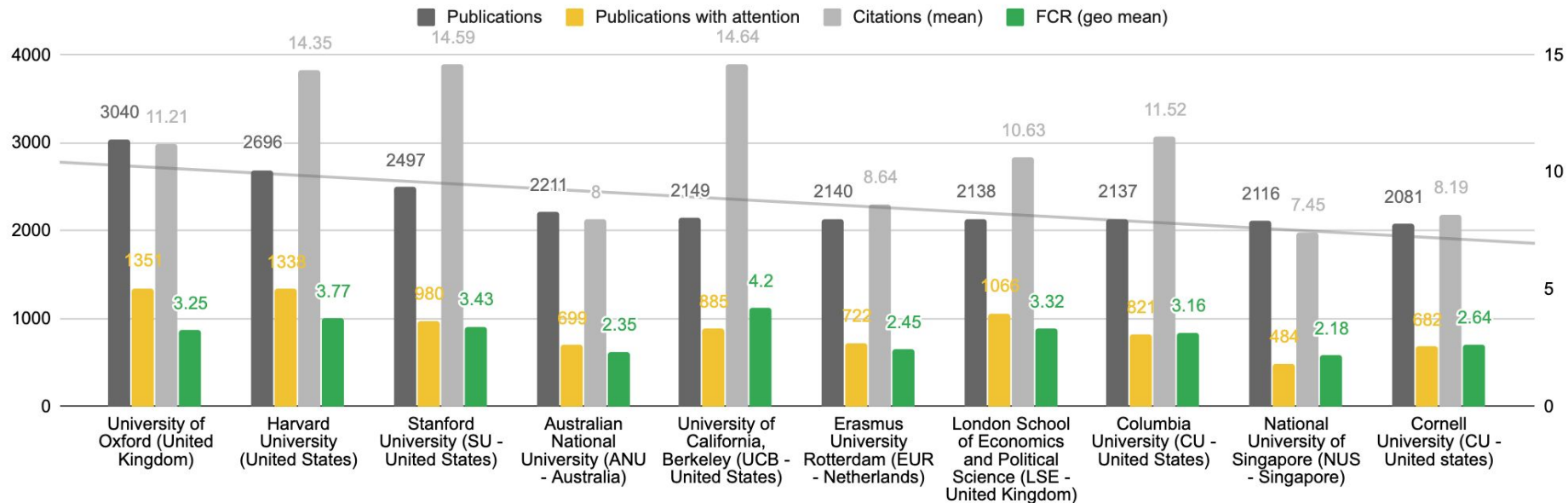
Top institutional collaborators

Top institutional collaborators of Australian researchers in FoR (14) Economics, by number of papers in 2010-2020



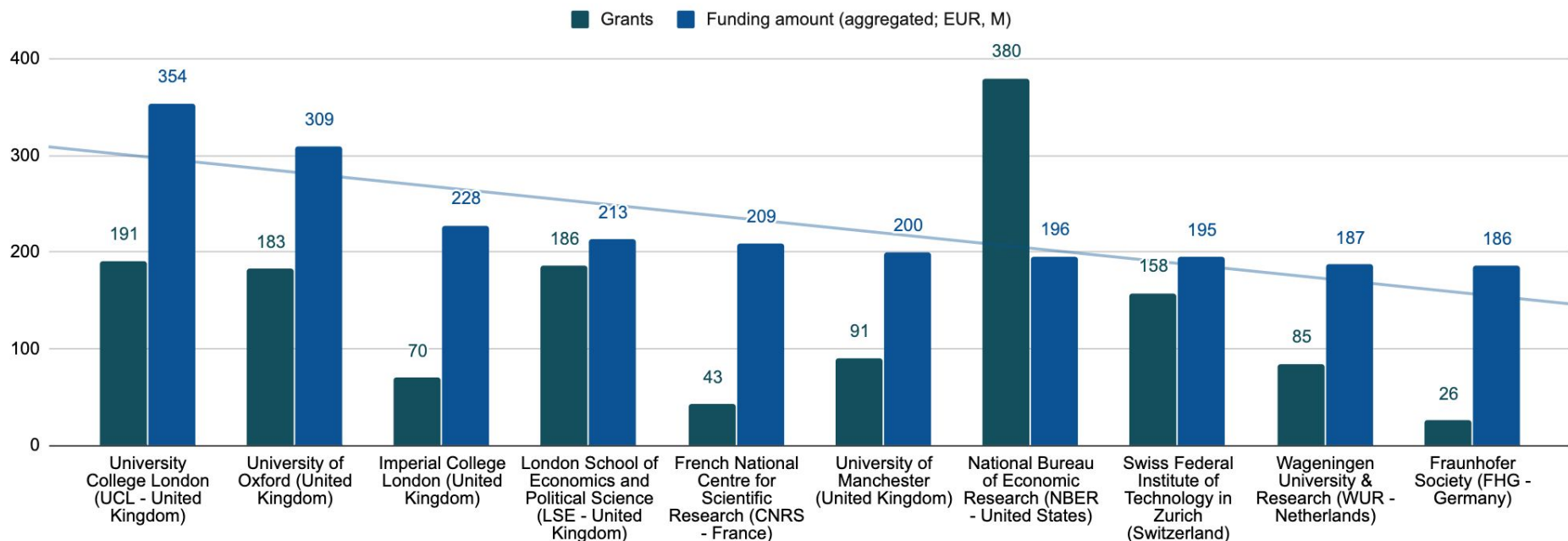
Top institutions

Top institutions in FoR (14) Economics by number of papers in 2010-2020



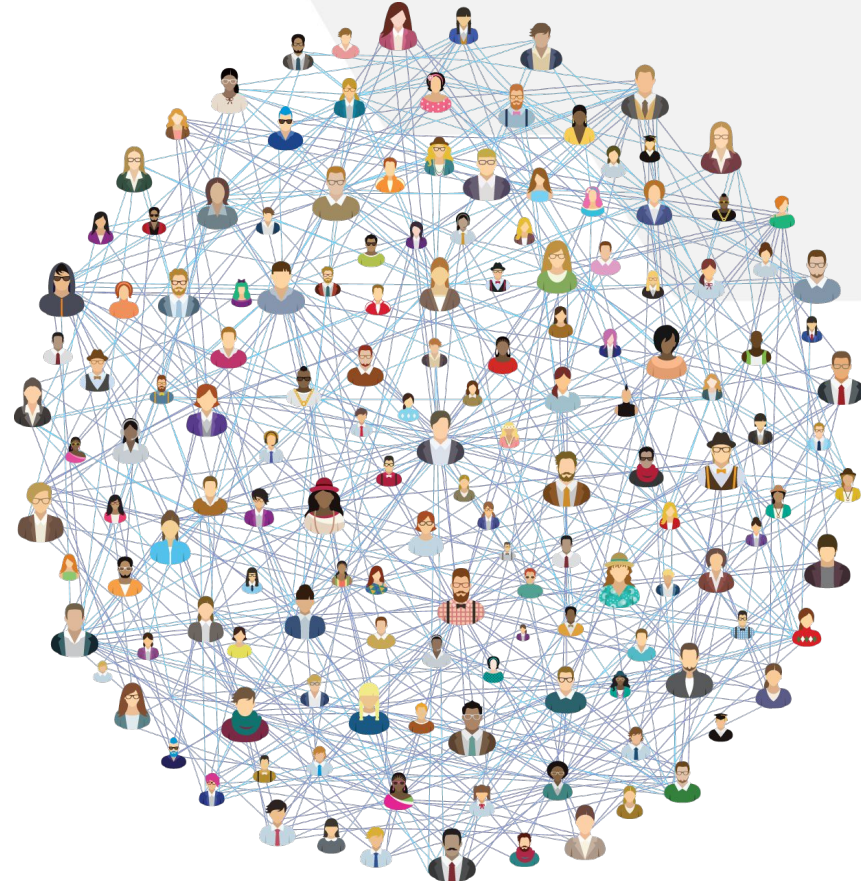
Top institutions

Top institutions by awarded amounts in FoR (14) Economics active in 2010-2027



Brainstorming

Do you envision setting up new (paid/free) services for your academic and/or corporate communities?

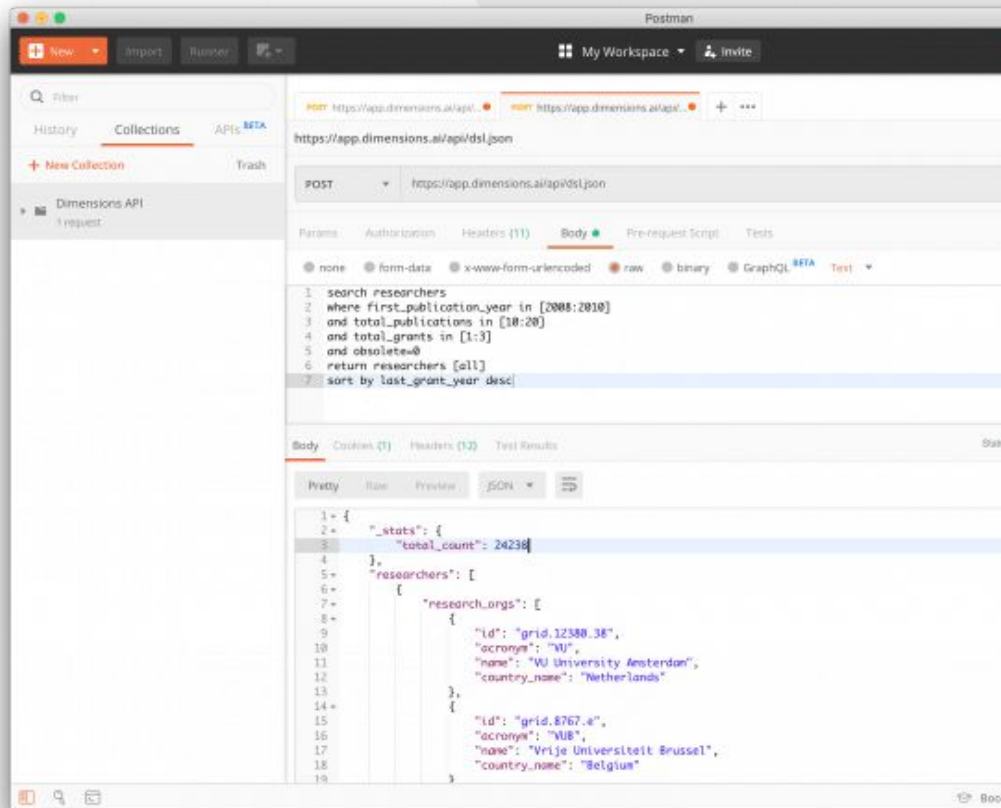


Addendum

Dimensions APIs

Powerful APIs - designed to allow flexible use of the enriched data

- Use without constraints for internal purposes
- Use data outside of the web-app; e.g. in admin systems or analytical software
- Querying language made and documented specifically for Dimensions



Examples and use case for the Dimensions API

Generally, data retrieved via the API is used for:

- Dynamic integration with own systems
- Systematic retrieval of data for automated report generation
- One-off retrieval of data for manual reporting
- Retrieval of data for aggregation or other processing in 3rd party analytical systems

You can also use data from Dimensions to:

- Enrich own data holdings
- Quality assess own data
- Govern own data in other other ways

Dimensions API allows own innovation



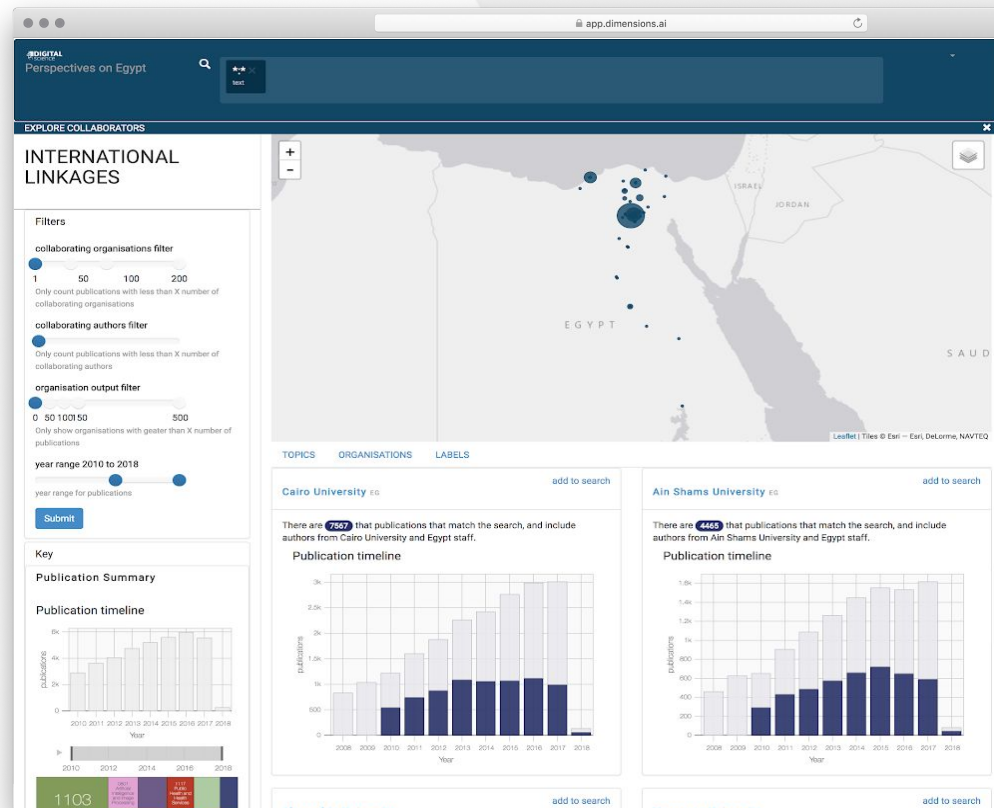
The Dimensions API

INNOVATE!

Build your own in-house dashboards or reporting based on the Dimensions API

Example:

International Linkages dashboard...



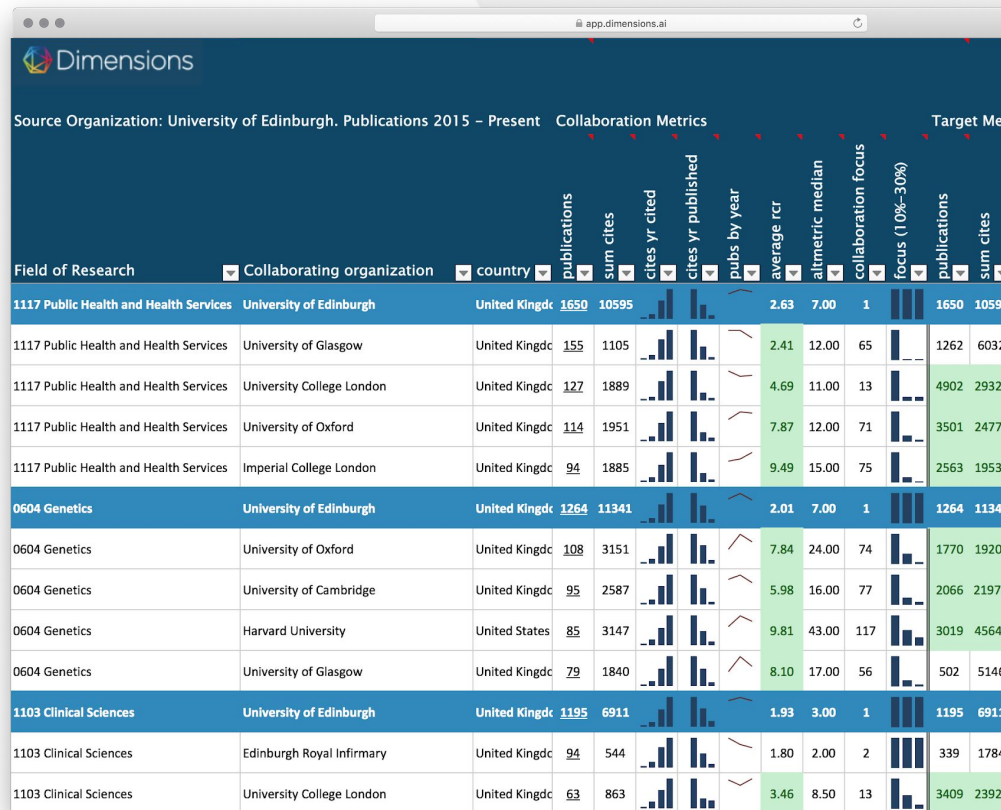
The Dimensions API

INNOVATE!

Build your own in-house dashboards or reporting based on the Dimensions API

Example:

Institutional Collaboration by Fields of Research



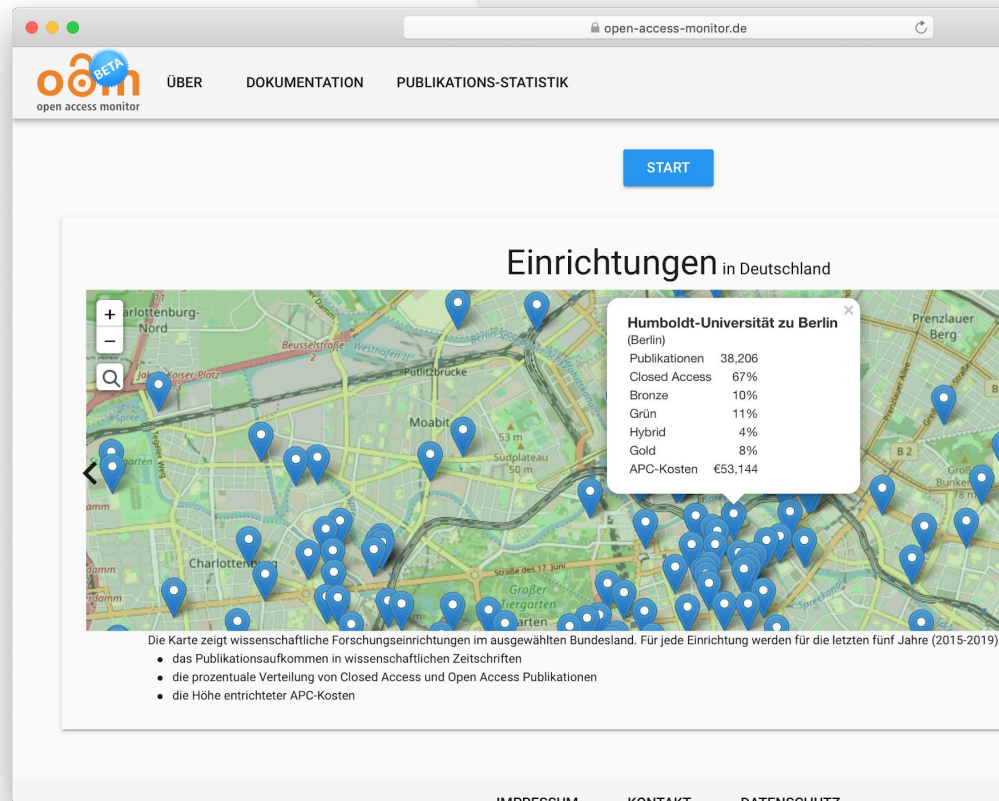
The Dimensions API

INNOVATE!

National open access monitor developed by the Central Library (ZB) of Forschungszentrum Jülich.

Using Dimensions and GRID bulk data.

<https://open-access-monitor.de>



The screenshot shows the website 'open-access-monitor.de' with a navigation bar containing 'ÜBER', 'DOKUMENTATION', and 'PUBLIKATIONS-STATISTIK'. A 'START' button is visible. The main content area is titled 'Einrichtungen in Deutschland' and features a map of Germany with numerous blue location pins. A popup window for 'Humboldt-Universität zu Berlin (Berlin)' is open, displaying the following data:

Metric	Value
Publikationen	38.206
Closed Access	67%
Bronze	10%
Grün	11%
Hybrid	4%
Gold	8%
APC-Kosten	€53,144

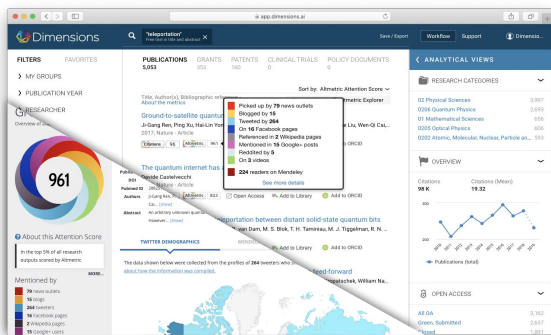
Below the map, a text block states: 'Die Karte zeigt wissenschaftliche Forschungseinrichtungen im ausgewählten Bundesland. Für jede Einrichtung werden für die letzten fünf Jahre (2015-2019) ...' followed by a bulleted list:

- das Publikationsaufkommen in wissenschaftlichen Zeitschriften
- die prozentuale Verteilung von Closed Access und Open Access Publikationen
- die Höhe entrichteter APC-Kosten

At the bottom of the page, there are links for 'IMPRESSUM', 'KONTAKT', and 'DATENSCHUTZ'.

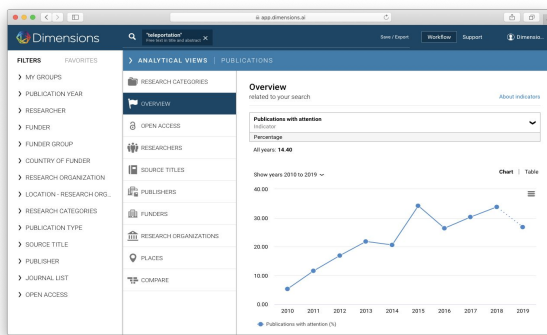
Altmetric integrations overview

Altmetric Badges and details pages



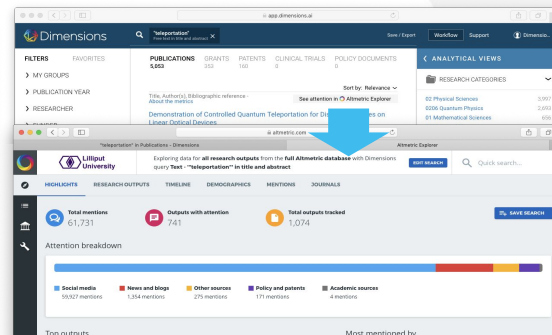
- Altmetric attention for publications / clinical trials
- Sort by Altmetric attention
- Unlocked Altmetric details pages with all mentions

Aggregate and analyse Altmetric attention



- Aggregated indicators based on Altmetric attention scores
- Available in Webapp and Analytics API

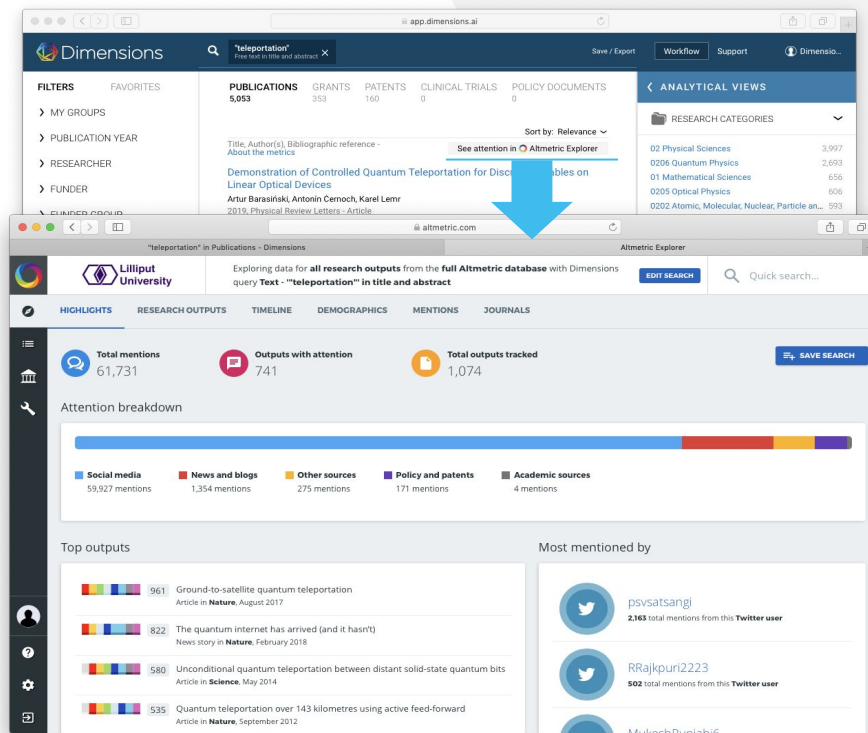
Dimensions-Altmetric Explorer search integration (forthcoming)



- Get all the details in Altmetric Explorer for a search defined in Dimensions
- Analyse up to 25k publications

Dimensions-Altmetric Explorer search integration (forthcoming)

- Use **Dimensions** filters, groups and full-text search capabilities to define granular queries and result sets of up to 25k publications
- Further insights with **Altmetric Explorer**
 - Understand where attention to research is coming from, and what is being said
 - Search for specific attention sources and filter by attention type
 - Analyse attention for journals, institutions, subject areas, funders, and more
 - Export attention data for analyses and reporting
 - Save searches and get regular attention updates via email



Dimensions and ORCiD

Researchers can connect their ORCID record to Dimensions to help claim and showcase their published research with a simple, efficient process.

- Add publication information to your ORCID profile directly from Dimensions with a single click
- When available, publicly available information is used to enrich research profiles
- ORCID records are also used to improve author disambiguation

The screenshot shows the Dimensions app interface with a search for "climate change". The search results are displayed in a table with columns for PUBLICATIONS (1,078,401), GRANTS (47,253), PATENTS (16,753), CLINICAL TRIALS (21), and POLICY DOCUMENTS (42,537). The results are sorted by Relevance. A modal dialog titled "Add to your ORCID record" is open, asking "Are you sure you want to add this work to your ORCID record?" with "Cancel" and "Add" buttons. The background shows a list of publications, including "Integrating Climate Change Topics Into Nursing Curricula" and "Individualist-Collectivist Differences in Climate Change Inaction: The Role of Perceived Intractability".

1-click access and ReadCube Papers integration

One-click article access to open access publications - directly from Dimensions

Quickly add references & full-text PDFs to your Papers library

app.dimensions.ai

Metrics 3 Related 10 References 71

1 / 12 >

frontiers
in Psychology

ORIGINAL RESEARCH
published: 12 February 2019
doi: 10.3389/fpsyg.2019.00187

Individualist–Collectivist Differences in Climate Change Inaction: The Role of Perceived Intractability

Peng Xiang¹, Haibo Zhang², Liuna Geng^{1*}, Kexin Zhou³ and Yuping Wu⁴

¹ School of Social and Behavioral Sciences, Nanjing University, Nanjing, China, ² School of Government, Nanjing University, Nanjing, China, ³ Nanjing Institute of Environmental Sciences, Ministry of Environmental Protection, Nanjing, China

The willingness to take action against climate change may be shaped by cultural orientations. The present study investigated individualist–collectivist differences in climate change inaction as well as the mediating role of perceived intractability. In Study 1, a survey of 182 undergraduates showed that greater perceived intractability of climate change was significantly related to a lower frequency of climate-friendly action in the preceding 6 months. In Study 2, participants who were exposed to information concerning the intractability of climate change (experimental group, $n = 98$) reported a significantly greater perceived intractability of climate change and lower intentions to assume a low-carbon lifestyle than those presented with neutral information (control group, $n = 83$). Based on Studies 1 and 2, participants with collectivist or individualist orientations were recruited from a pool of Chinese undergraduate students in Study 2. We found that participants with a more individualist orientation ($n = 62$) are more susceptible to perceived intractability, and less likely to take climate-friendly action than those with a more collectivist orientation ($n = 94$), and individualist/collectivist status affects climate change inaction through perceived intractability as mediator. The implications of these findings are discussed in relation to the promotion of public engagement with climate change by mitigating perceived intractability.

Keywords: climate change inaction, perceived intractability, climate change, collectivism, individualism

OPEN ACCESS

Edited by:
Fanli Jia,
Seton Hall University, United States

Reviewed by:
John Everett Marsh,
Gävle University College, Sweden
Carla Moura,
Instituto Universitario de Lisboa
(ISCTE), Portugal

***Correspondence:**

10.3389/fpsyg.2019.00187
View Article Page

Open access data

- More than 25M open access publications
- Based on Unpaywall data integration and additional improvements by Dimensions
- All publications categorized as
 - Closed
 - Gold (Pure gold, Hybrid, Bronze)
 - Green (published, accepted, submitted)



Dimensions



unpaywall