

Dimensions Research Security Training

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Agenda

Introductions

Overview of Dimensions Research Security app

Live demo

Discussion/Q&A

Additional information

Content & links in Dimensions

Overview

Dimensions Research Security app

Background

“Dimensions has become the cornerstone of our workflow to understand the extent of foreign influence at our institutions... Processes that took us hours to complete in the past can now be done in just minutes with much greater fidelity.”

Chief Research Security Officer
University System Office

Dimensions has worked closely with academic research security professionals since 2019.

The Research Security app was developed with an advisory group of research security users in response to an increasing demand for additional analytical capabilities unavailable in Dimensions Analytics.

Use cases/needs

Assess & prioritize potential risk

Time and effort is required to stay on top of potential risks at your institution. Limited resources require institutions to be able to prioritize their efforts and stay proactive.

- Drill down into international collaborations via co-authorship on publications or collaborations on grants
- See all affiliations associated with researchers
- Understand ORCID participation at your institution
- Uncover acknowledged funding programs
- Examine funded research cited in patents & clinical trials
- Use these analyses to prioritize outreach and intervention in order to mitigate risk

THE NEED

Assessing and prioritizing potential risk to make the most efficient use of your available resources

Comply with mandates

Do you have multiple FTEs scouring disparate sources to verify researcher disclosures?

- Publication, awarded grant, patent and clinical trial data in one place
- Inclusive indexing means you won't miss publications excluded by other databases
- Timely data updates
- Affiliation information
- Funding programs
- Examine funded research cited in patents

THE NEED

Comprehensive data
to inform disclosures
and certifications

Comprehensively vet researchers

- Funders of research with potential applications in sensitive areas (eg. defense technology) have strict requirements pertaining to researchers involved with such projects. Institutions need to be able to demonstrate that they have thoroughly vetted potential participants in these projects in order to secure this funding.
- Quickly surface international collaborations on publications and grants, view past & current affiliations, related IP & clinical trials via our extensive global dataset
- Analyze international funders acknowledged on potential researchers' publications
- Identify undisclosed collaborations or international funding sources that may put your institution's grant application at risk

THE NEED

Vetting potential researchers on sensitive research projects

The app is divided into
two main sections

Home organization

Researcher lookup

Home organization

✓ Home organization

Overview

Multiple affiliations

Keywords of interest

Publication collaborations

Grant collaborations

Clinical trial collaborations

Patent collaborations

Patent citations

The intent of the Home organization section is to help surface potential areas of interest for research security on an organizational level.

We know you deal with an enormous amount of information and need ways to inform your priorities and focus limited resources.

We know that you value a data-driven approach using a comprehensive data source.

We know you want to be proactive.

We prioritized often-requested analyses unavailable in Dimensions Analytics, such as researchers with multiple affiliations.

This view is limited to your own organization.

Home organization menu

Content

Overview	Basic information about your institution and researchers at a high level
Multiple affiliations	Insight into authors publishing with multiple affiliations
Keywords of interest	Surfaces publications with co-authors from the home organization that mention 'keywords of interest' related to talent recruitment programs
Publication collaborations	Analyses of international collaborations on research publications, including authors
Grant collaborations	Analyses of international collaborations on awarded grants, including PIs
Clinical trial collaborations	Analyses of international collaborations on clinical trials, including researchers
Patent collaborations	Analyses of international collaborations among patent assignees
Patent citations	Analyses of patents citing Home Organization research publications

Researcher lookup

The intent of the Researcher look-up section is to provide enhanced information on the researchers in Dimensions.

▼ Researcher lookup

Overview & Affiliations

Publications

Grants

Clinical trial

Patents

Patent citations

We know you need a comprehensive way to verify disclosures and vet potential PIs, collaborators, visiting scholars and hires.

We know that you value global data across all content types, including awarded funding and patents.

We know you want as much relevant information as we can provide in an easy to use way.

We prioritized often-requested analyses unavailable in Dimensions Analytics, such as affiliations over time.

This view is not be restricted to your own organization - any researcher in Dimensions can be entered.

Researcher lookup menu

Content

Overview & Affiliations	Provides basic information on researchers, including all affiliations over time
Publications	Researcher publications, including collaborations, acknowledged funders, and 'keywords of interest'
Grants	Researcher funding, including funders and collaborating institutions
Clinical trials	Clinical trials associated with researcher, including funders and collaborating institutions
Patents	Patents associated with researcher, including collaborating assignees and Funders
Patent citations	Patents citing researcher's publications

Filters

We supply numerous filters in the app so that you can limit analyses and results according to your needs.

You make the calls on what's important to you.

- Time parameters
- Flagged country/territory
- Flagged funder country/territory
- Flagged research organization
- Flagged organization lists
- Fields of Research

Live demo

Discussion/Q&A



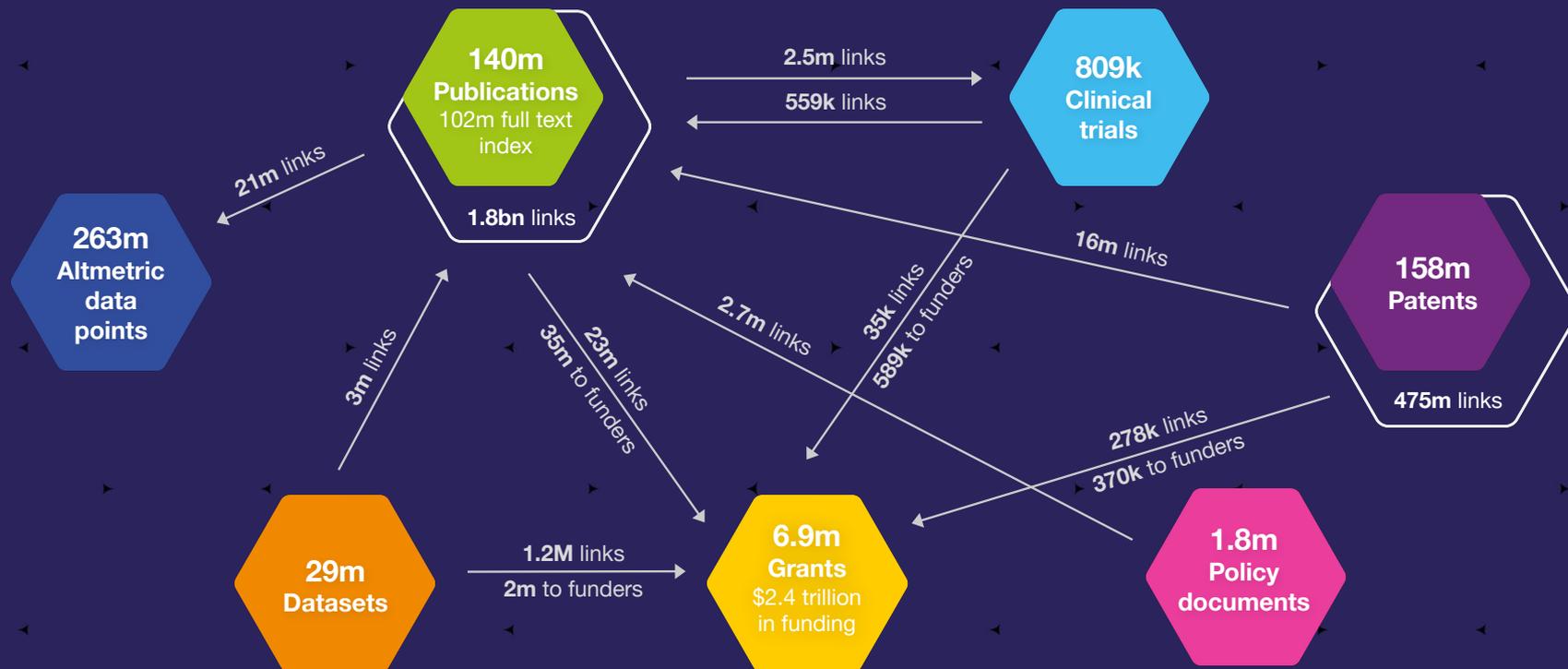
Thank you!

Part of **DIGITAL**science

Additional
information

Content & links

Content and links in Dimensions





PUBLICATIONS

- Full text indexing for ~70% of publications
- Direct relationships with >130 publishers
- Journal articles, books, book chapters, proceedings, preprints
- Linked to:
 - publication references
 - citing publications
 - supporting grants
 - referencing clinical trials
 - referencing patent records
 - referencing MIT policy documents

					
					
					
					
					
					
					and 90+ other publishers



DATASETS

- More than 12M datasets
- Sourced from DataCite and Figshare
- Linked to publications, supporting grants and funders
- Filters for research organizations, funders, researchers and more

DATA CITE

				
				
				900+ more

FIGSHARE & FIGSHARE HOSTED REPOSITORIES

				
				
				70+ more



GRANTS

- Project funding
- Over 6M grants from 650+ funders globally
- Not limited to national/federal funding
- \$2 trillion of funding
- Sourcing
 - Direct relationships with funders
 - Data available via APIs
 - Data available via websites which we crawl

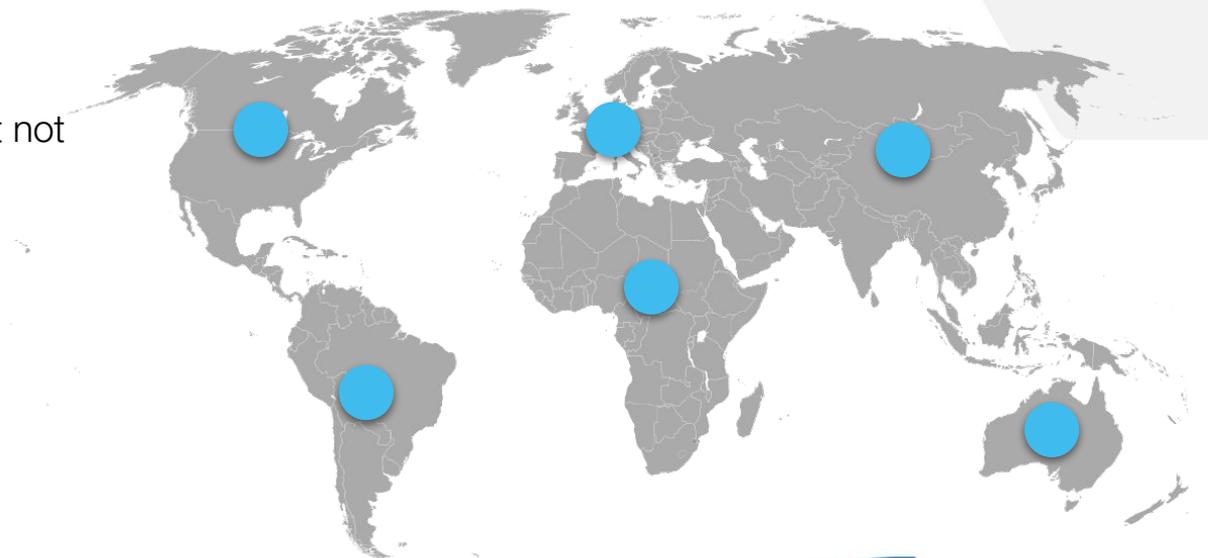
The screenshot shows a web browser window with the URL `app.dimensions.ai`. The page title is "Dimensions". The left sidebar contains a navigation menu with sections: "MY ACCOUNT" (General settings, Set currency, ORCID information, Set export format, Export center), "ABOUT DIMENSIONS" (Dimensions, About the grants data, Acknowledgements, Privacy Policy, Legal Terms). The main content area is titled "About the grants data" and includes a sub-header: "Dimensions checks all sources of grant data for new data each month. The latest data update was in May 2019. Individual funders and the grant data contained in the current release is detailed below." Below this is a table with three columns: "Funder", "GRID ID", and "Country".

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



PATENT RECORDS

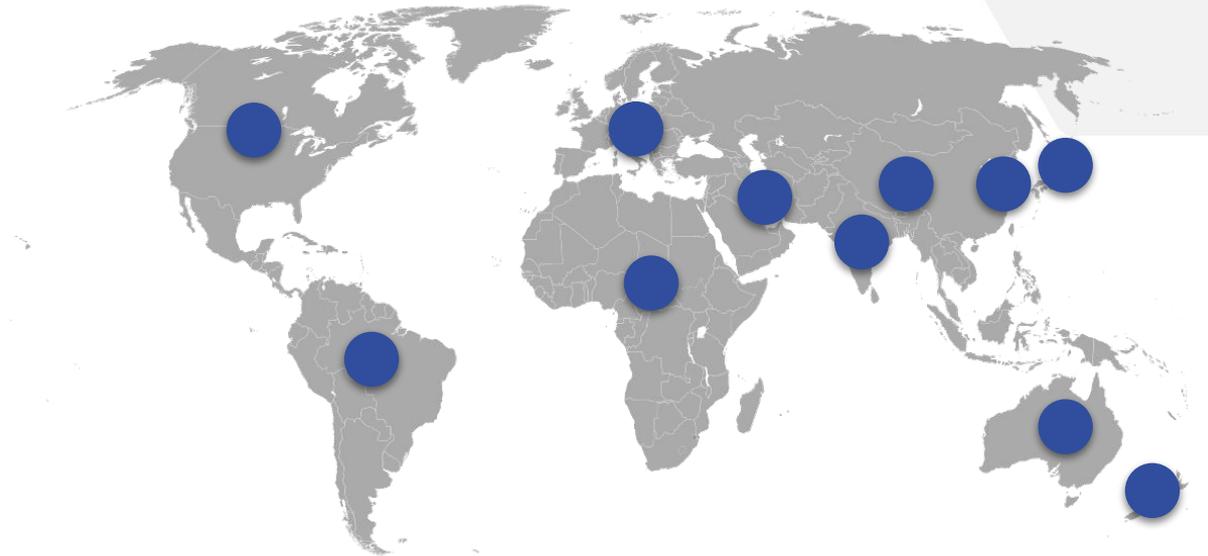
- 155M+ patent documents
- Global coverage
- 100+ jurisdictions, including but not limited to:
 - China
 - Japan
 - United States
 - Germany
 - European Union
 - South Korea





CLINICAL TRIALS

- ANZCTR (Australia/New Zealand)
- CHICTR (China)
- ClinicalTrials.gov (United States)
- CRIS (Korea)
- CTRI (India)
- ENCePP (Netherlands)
- EU-CTR (EU)
- GCTR (Germany)
- IRCT (Iran)
- ISRCTN (International)
- jRCT (Japan)
- NTR (Netherlands)
- PACTR (Africa)
- ReBEC (Brazil)
- UMIN-CTR (Japan)





POLICY DOCUMENTS

Over 1.5M 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 database interface. At the top, there's a search bar with "DOCUMENTS" and a filter "e.g. plastic AND instrument". On the right, there are options for "Save / Export". Below the search bar, there's a navigation menu with "PUBLICATIONS", "DATASETS", "GRANTS", "PATENTS", "CLINICAL TRIALS", and "POLICY DOCUMENTS" (which is highlighted with 1,553,406 records). The main content area is divided into "FILTERS" and "FAVORITES". Under "FILTERS", there are sections for "GROUPS", "PUBLICATION YEAR", and "PUBLISHING ORGANIZATION". The "PUBLISHING ORGANIZATION" section lists various organizations with their respective document counts. The main list of documents shows titles, years, and publishing organizations, with a "Show abstract" button and a "Sort by: Relevance" dropdown.

FILTERS	FAVORITES	PUBLICATIONS	DATASETS	GRANTS	PATENTS	CLINICAL TRIALS	POLICY DOCUMENTS
> GROUPS		138,265,674	12,311,326	6,809,568	155,623,377	790,170	1,553,406
> PUBLICATION YEAR							
> PUBLISHING ORGANIZATION							
<input type="radio"/> Government of the United Kingdom	148,743						
<input type="radio"/> World Health Organization	146,157						
<input type="radio"/> United States Department of Transportation	57,207						
<input type="radio"/> Environmental Protection Agency	54,287						
<input type="radio"/> National Bureau of Economic Research	48,391						
<input type="radio"/> World Bank	41,450						
<input type="radio"/> Federal Energy Regulatory Commission	39,215						
<input type="radio"/> Scottish Government	38,472						
<input type="radio"/> Centers for Disease Control and Prevention	35,864						
<input type="radio"/> United States Department of Commerce	31,296						
<input type="radio"/> Amnesty International	31,027						

DOCUMENTS e.g. plastic AND instrument Save / Export

1,553,406

Show abstract Sort by: Relevance

Title, Year, Publishing organization

تقرير اللجنة الاستشارية الاقليمية - الاجتماع الخامس و الثلاثون
2011, World Health Organization

Times to key events in Zika virus infection and implications for blood donation: a systematic review
2016, World Health Organization

Weekly Epidemiological Record, 1931, vol. 06, 18 [full issue]
1931, World Health Organization

Intensification du Programme elargi de vaccination pour atteindre les cibles mondiales et regionales
2011, World Health Organization

EPIDEMIC ENCEPHALITIS IN JAPAN = ENCÉPHALITE ÉPIDÉMIQUE AU JAPON
1929, World Health Organization