

Dimensions: Helping Libraries Make Global Research Discoverable

Re-imagining
discovery and access
to research:
Grants, publications,
citations, clinical trials
and patents in
one place

Today's Agenda

- Overview of the Dimensions project
- Applications for Dimensions
- Library tools

What was available within Digital Science?

GRID

Institution
disambiguation,
80k+ organisation IDs,
openly available



3.7 M projects in grant
database, enrichment
services and analytical
application core



Tracking attention in
news, social media
and policy papers -
as an immediate
resonance



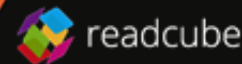
Global patent
database - more
than 100M patent
records



Allowing researchers
and institutions to
store, manage and
publish research
related data



Research information
management system -
deep knowledge
about institutional
requirements for
data and metrics



Serving publishers,
access to +50M
journal articles and
books

Key aspects which we wanted to change

Citation data siloed in paid for, analyst focused tools

... publications available for researchers at no cost, all data at reasonable costs for institutions!

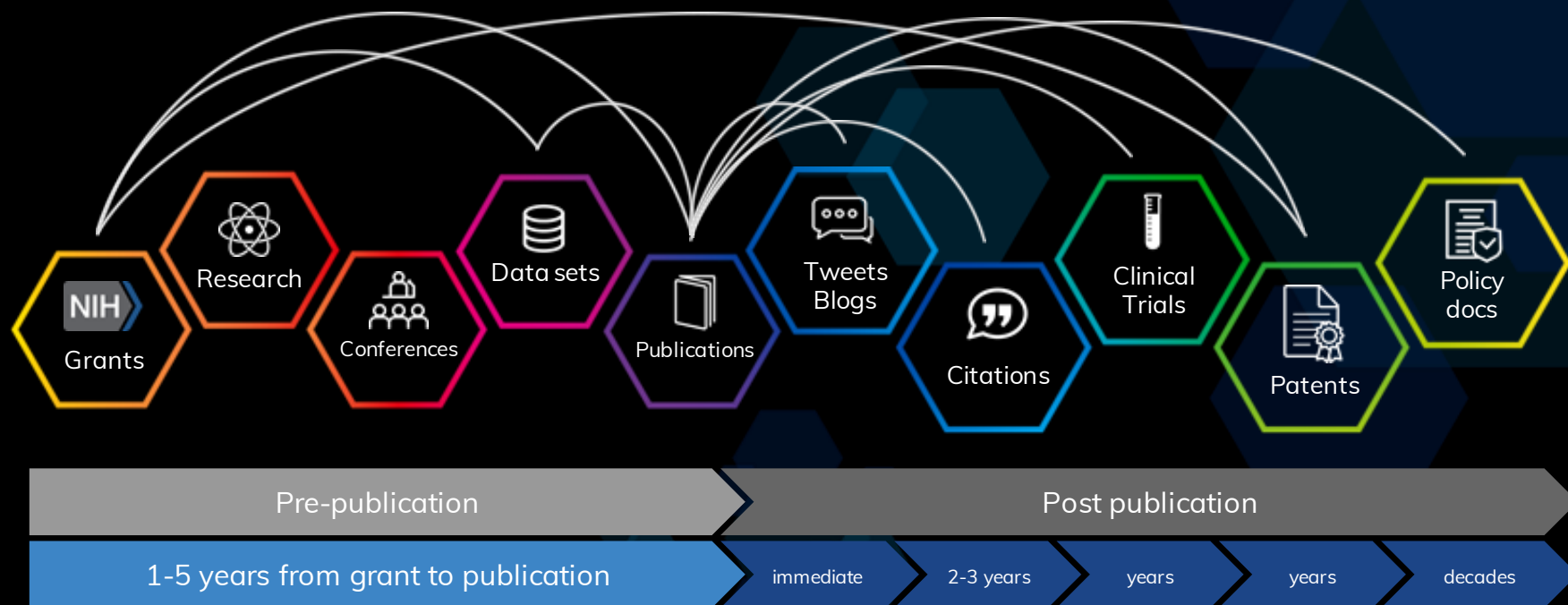
Simplistic metric driven impact assessment

Data is available to fuel multiple metrics, developed by the community

Data being siloed is blocking innovation

... Data is brought together, enabling full innovation potential of the research community

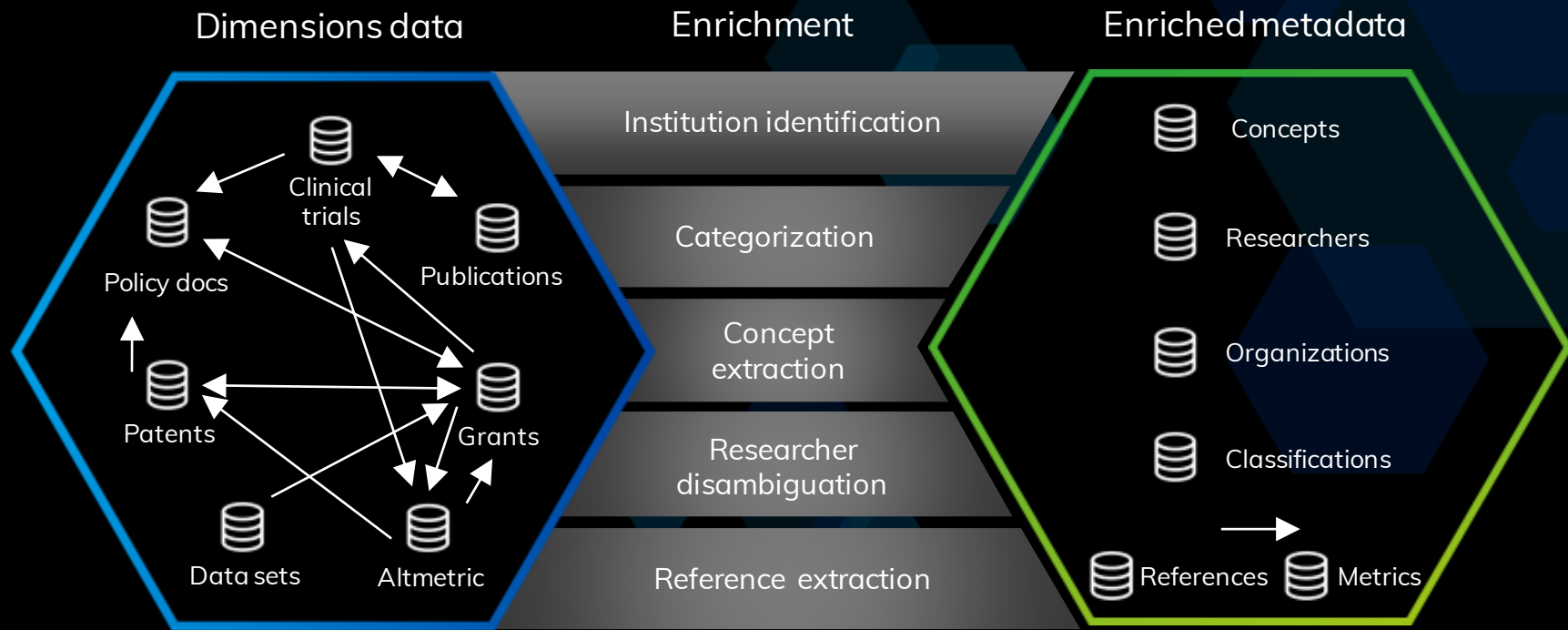
How do we better capture the research lifecycle?



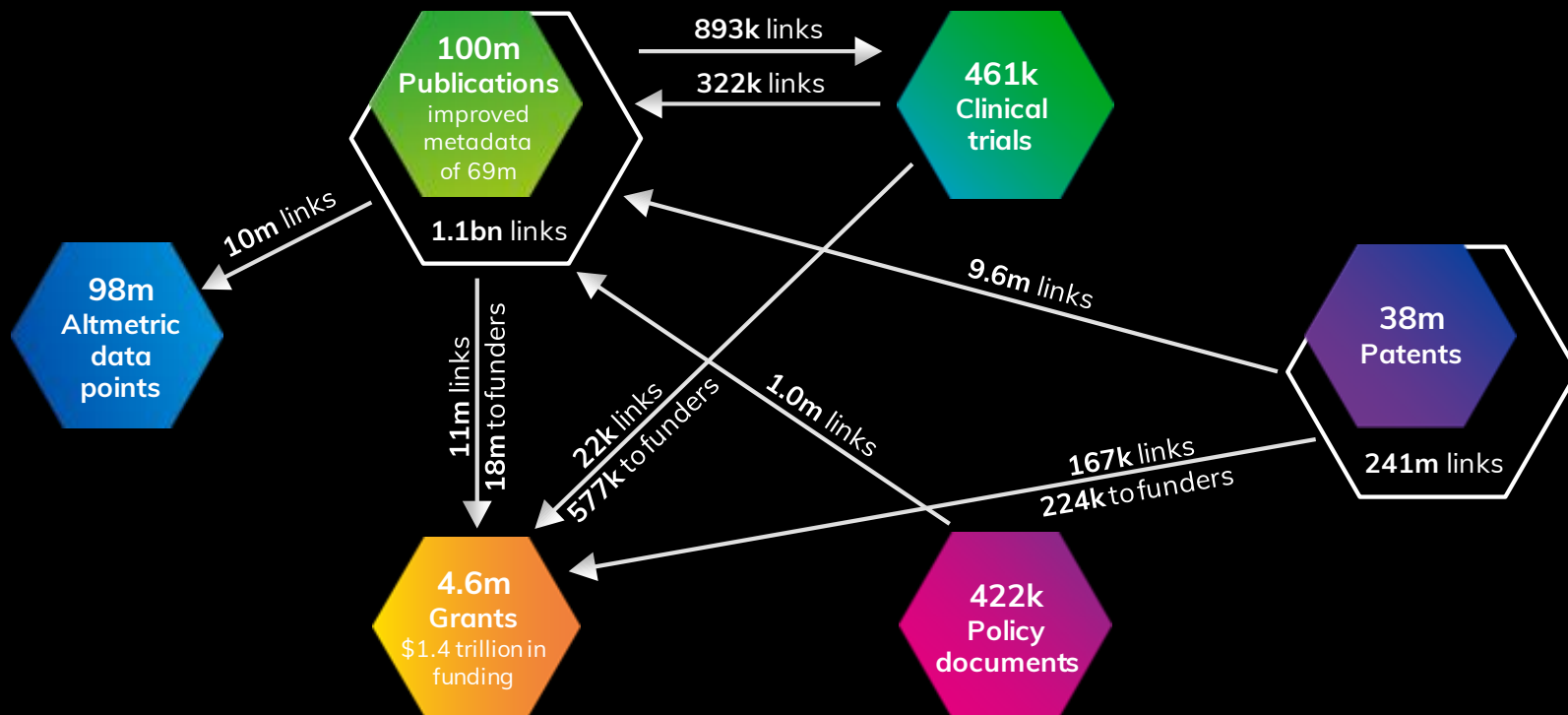
How is Dimensions different?
Data sources and linkages - a better
discovery experience...



Enriched and interlinked – a modern approach to research data management



The data and links driving Dimensions...



Overview: Metrics in Dimensions

Times cited	Number of times a publication was cited by other publications	Article-level Aggregated
Altmetric	Online mentions in social media, blogs, news outlets, policy documents, wikipedia	Article-level Aggregated
RCR	Relative Citation Ratio - quantifies the influence of a research article by using its co-citation network to field-normalize the number of citations it has received	Article-level Aggregated
FCR	Field Citation Ratio compares an article's citations against articles of similar age and in a similar subject area	Article-level Aggregated
Citation recency	Shows the number of citations received by an article in the last two years	Article-level Aggregated
SNIP/SJR	Field-normalized journal metrics, calculated by CWTS and Scimago Research Group	Journal-level

Overview: Metrics in Dimensions

ACR

Annual citation rate - The average number of citations received in a year, to articles previously published

Journal-level

Highly cited

Indicator of strong citation - based on FCR and therefore normalized for subject area, age and publication year

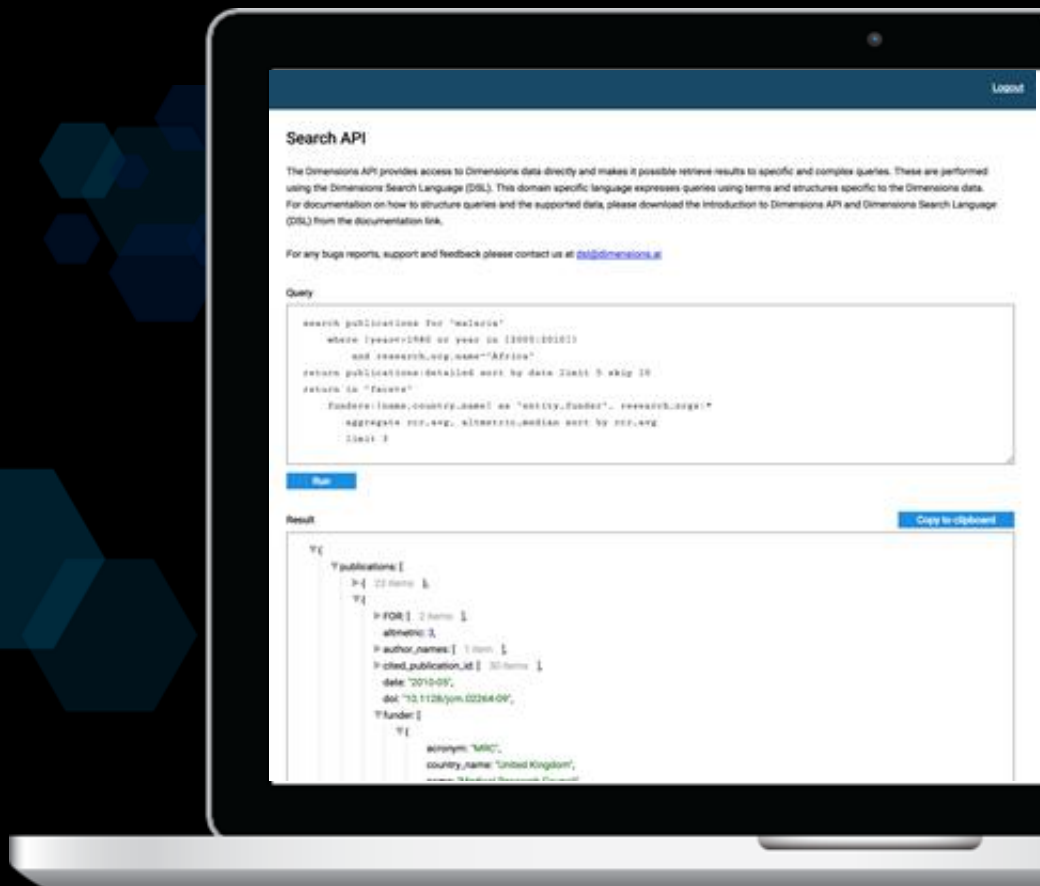
Article-level

Aggregated

The Dimensions API

Powerful API - 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 new Dimensions



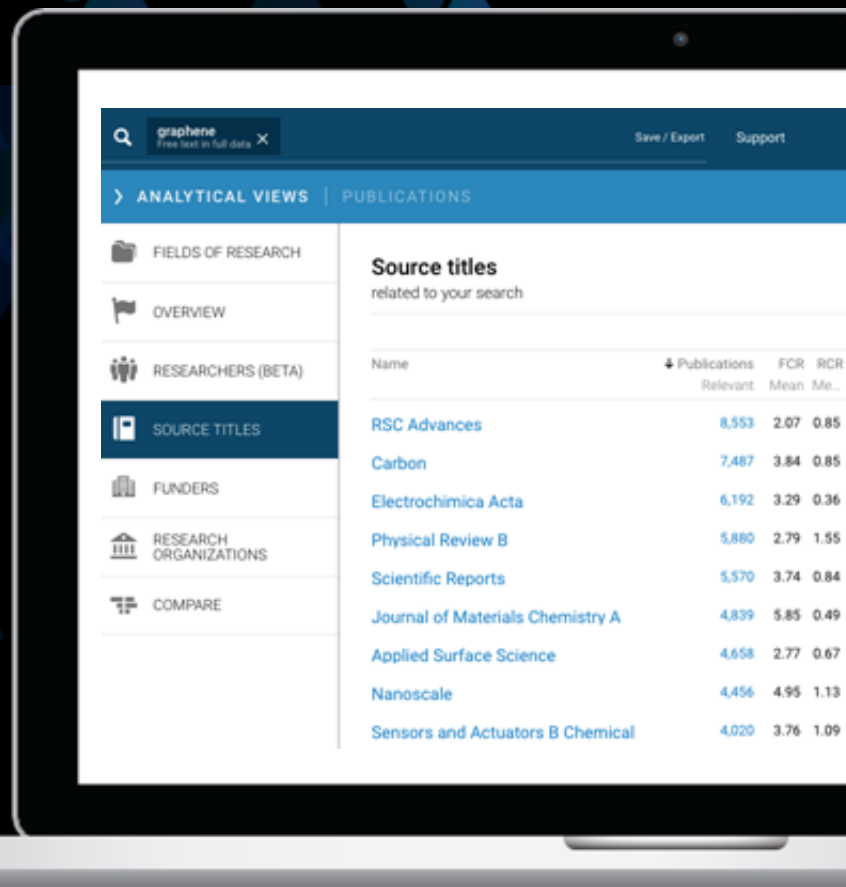
Using Dimensions in the library



Applying the data

Applying the data

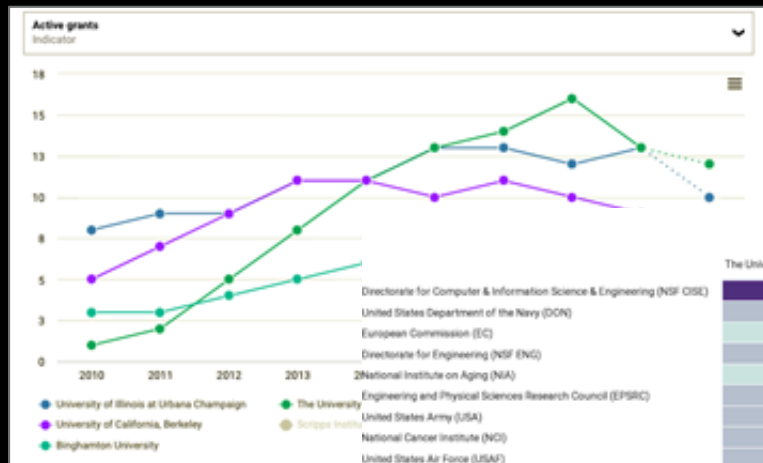
- Monitoring the latest developments in specific fields
- Impact reporting
- Collection development
- Finding potential funders
- Identifying experts



The screenshot shows the 'graphene' interface with a search bar at the top. Below the search bar, there are tabs for 'ANALYTICAL VIEWS' and 'PUBLICATIONS'. The 'PUBLICATIONS' tab is active, displaying a table of source titles related to the search. The table has columns for 'Name', 'Publications Relevant', 'FCR Mean', and 'RCR Me...'. The source titles listed are RSC Advances, Carbon, Electrochimica Acta, Physical Review B, Scientific Reports, Journal of Materials Chemistry A, Applied Surface Science, Nanoscale, and Sensors and Actuators B Chemical.

Name	Publications Relevant	FCR Mean	RCR Me...
RSC Advances	8,553	2.07	0.85
Carbon	7,487	3.84	0.85
Electrochimica Acta	6,192	3.29	0.36
Physical Review B	5,880	2.79	1.55
Scientific Reports	5,570	3.74	0.84
Journal of Materials Chemistry A	4,839	5.85	0.49
Applied Surface Science	4,658	2.77	0.67
Nanoscale	4,456	4.95	1.13
Sensors and Actuators B Chemical	4,020	3.76	1.09

Examine funding trends, find funders, experts & more



- RESEARCH CATEGORY
- PUBLICATION
- SOURCE TITLE
- PUBLISHER
- JOURNAL LIST
- OPEN ACCESS

Source: <https://doi.org/10.1002/dimensions.ai>
Exported: June 03, 2019
Criteria: Start Year is 2018 or 2017 or 2016; Country/Territory is United States; Fields of Research is 0801 Artificial Intelligence and Image Processing.

Researchers related to your search

Aggregated Timeline Heatmap

[Export table](#)

Name	↓ Publications Relevant	FCR Mean	RCR Mean	Altmetric % mentio...	Altmetric Att... Median
The University of Texas...	172	3.73	1.76	38.4	2.0
University of Illinois at ...	119	3.12	2.01	21.0	1.0
University of Southern ...	109	5.89	0.58	7.3	1.0
Carnegie Mellon Univer...	92	9.61	3.12	6.5	1.0
Stanford University	91	3.93	0.00	15.4	1.0

Showcase academic impact

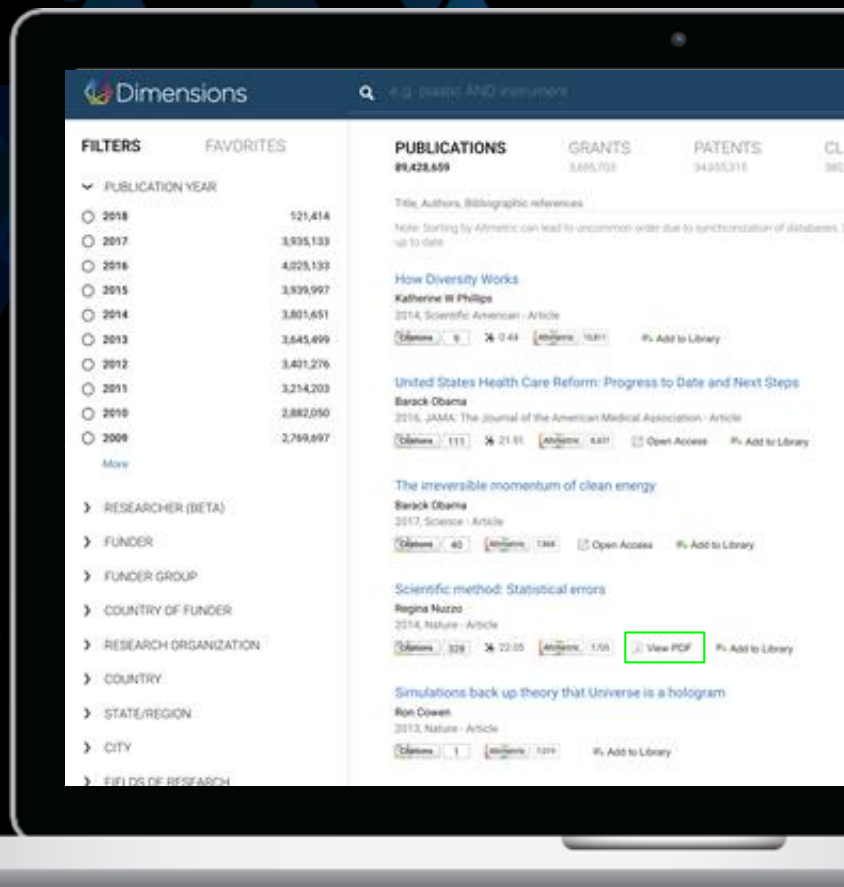
Introducing the new Dimensions badges

- Dynamic visualization
- Features total citations, recent citations, RCR and FCR
- Free for non-commercial use on researcher sites



Anywhere Access - fastest route to Open Access - **and fully licensed** - version of full text

- SSO integration with research institution
- Integration of subscription holding information
- Integration with EZProxy
- Ultimate goal:
 - Show in result list
 - .. to enable 1-click access to pdf wherever possible
 - COUNTER compliant of course

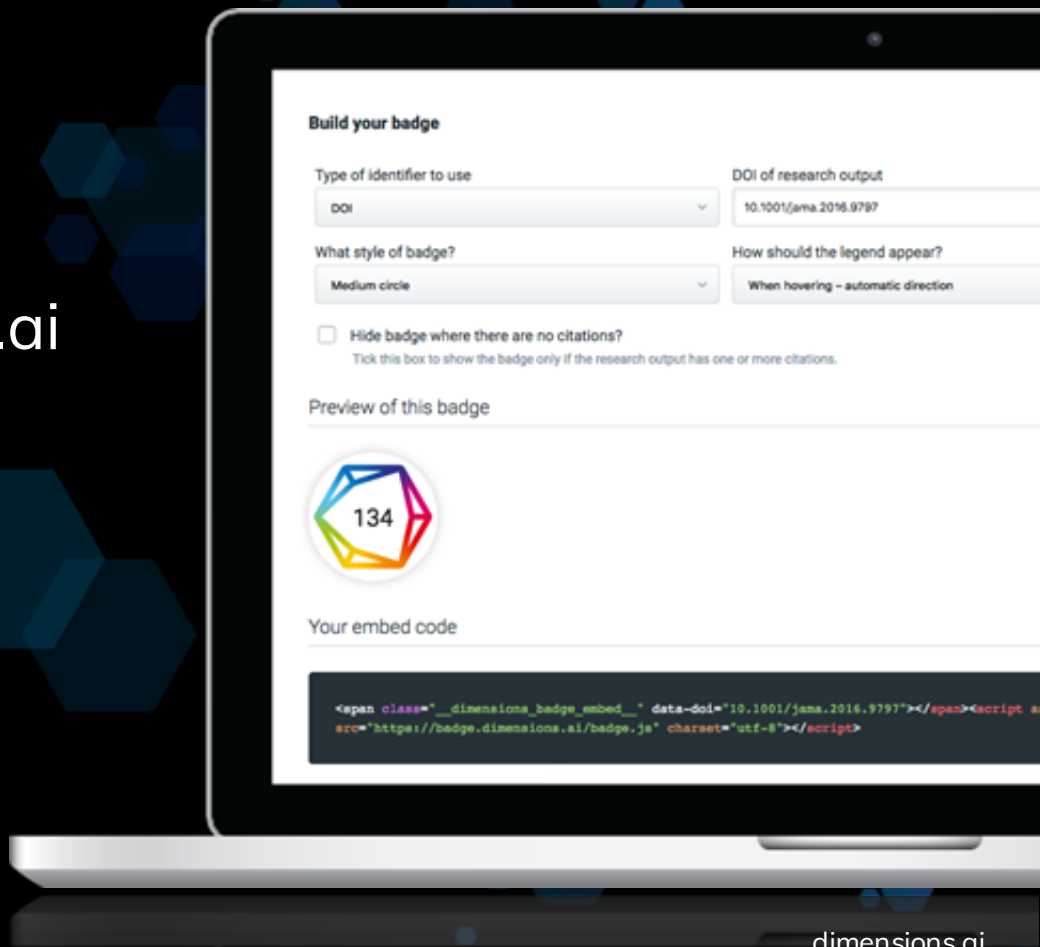


Library tools

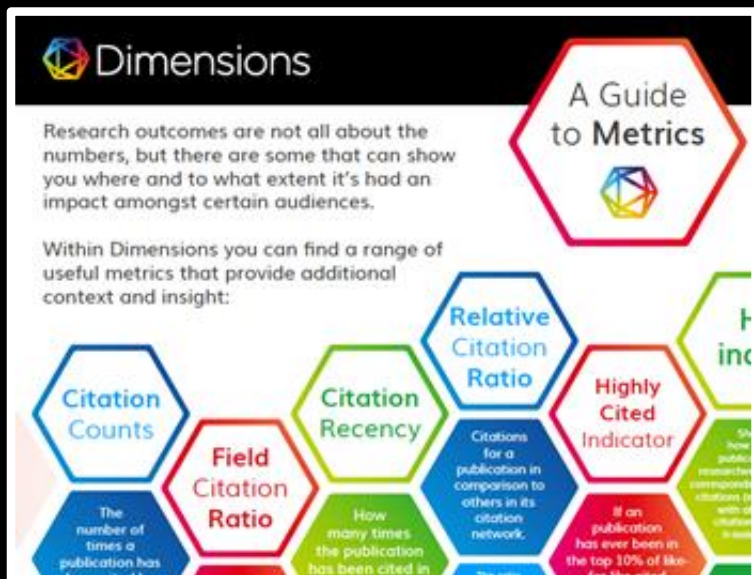


Get your badges!

- Visit badge.dimensions.ai
- Choose your style
- Grab the code & embed



Library toolkit



Dimensions

What is Dimensions?

Dimensions is a cloud-based search, discovery and analytics platform that brings together over 128 million research items from across the scholarly ecosystem.

This includes citation and online attention data for 89 million publications, and over 4 billion connections to related grants (and their associated funding agencies), patents and clinical trials to help you gather information on current and future research activity.

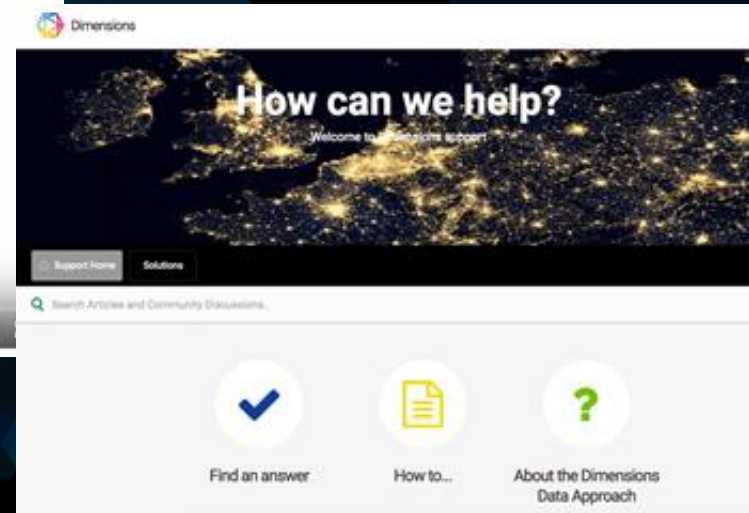
What will you discover in Dimensions?

In addition to finding relevant publications, you can also easily locate linked and integrated data from multiple content sources. When you've clicked in to a publication record, you'll be able to see:

- Publication references
- Publication citations
- Supporting grants
- Supporting funding agencies
- Patent citations
- Research categories
- Altmetric mentions

A screenshot of a Dimensions publication record. The record shows the title "The influence of..." and a list of authors. It includes a list of supporting grants and funding agencies, a list of patent citations, and a list of research categories. The record also shows the number of citations and altmetric mentions.

User support



b.melia@digital-science.com

@DSDimensions, info@dimensions.ai

