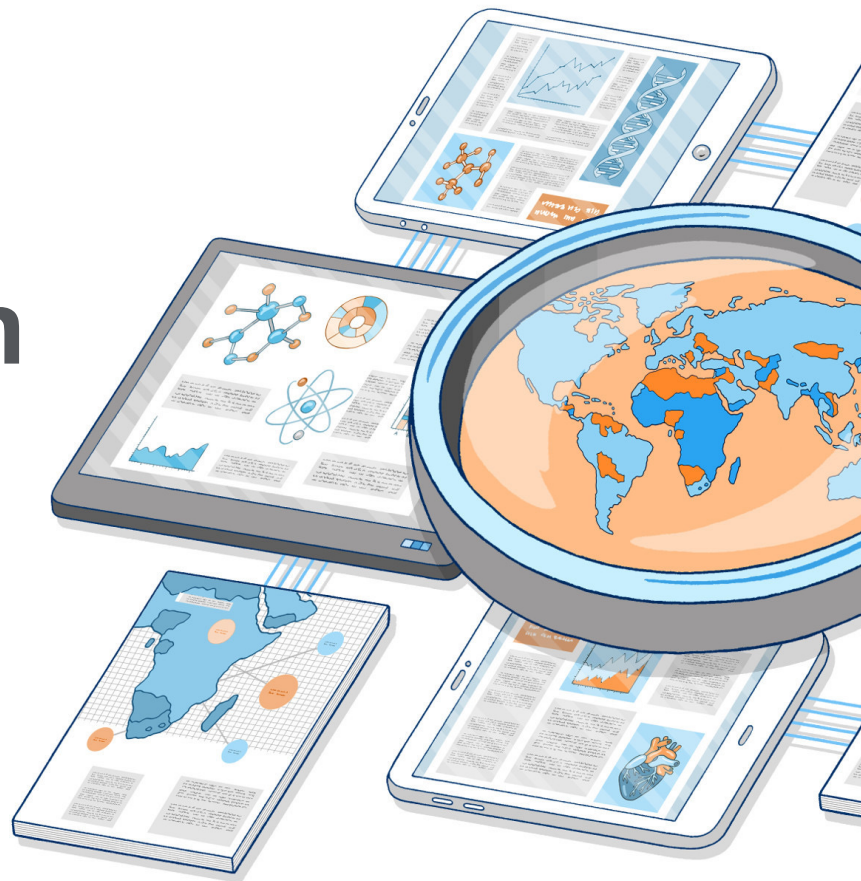




SciVal introduction and use-cases



Aug, 2023

Anton Degtev, Solutions Manager, CEE

Contents:

Introductions

SciVal Overview

Institutional Challenges addressed:

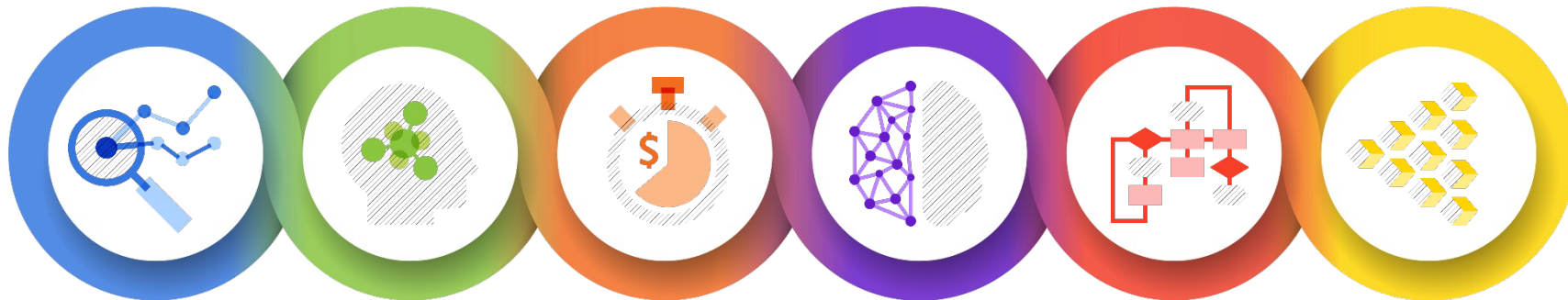
- Research Strategy and International Rankings
- Collaborations & Partnerships
- Funding and Projects
- Impact & Engagement
- Research Trends Analysis

Customer stories, references

Additional info



Research challenges we're addressing:



Research Strategy

Inform your research goals by using research intelligence to inform strategic planning

Expertise & Collaboration

Advance your research programs by identifying best-fit researchers and cross-sector partners

Research Funding

Maximize your funding potential with a holistic view of the funding landscape

Conducting Research

Enhance efficiency and productivity by enabling research discovery and boosting workflows

Research Management

Make decisions with confidence by optimizing the monitoring and administration of research

Impact & Engagement

Expand your reputation for excellence and advance open science

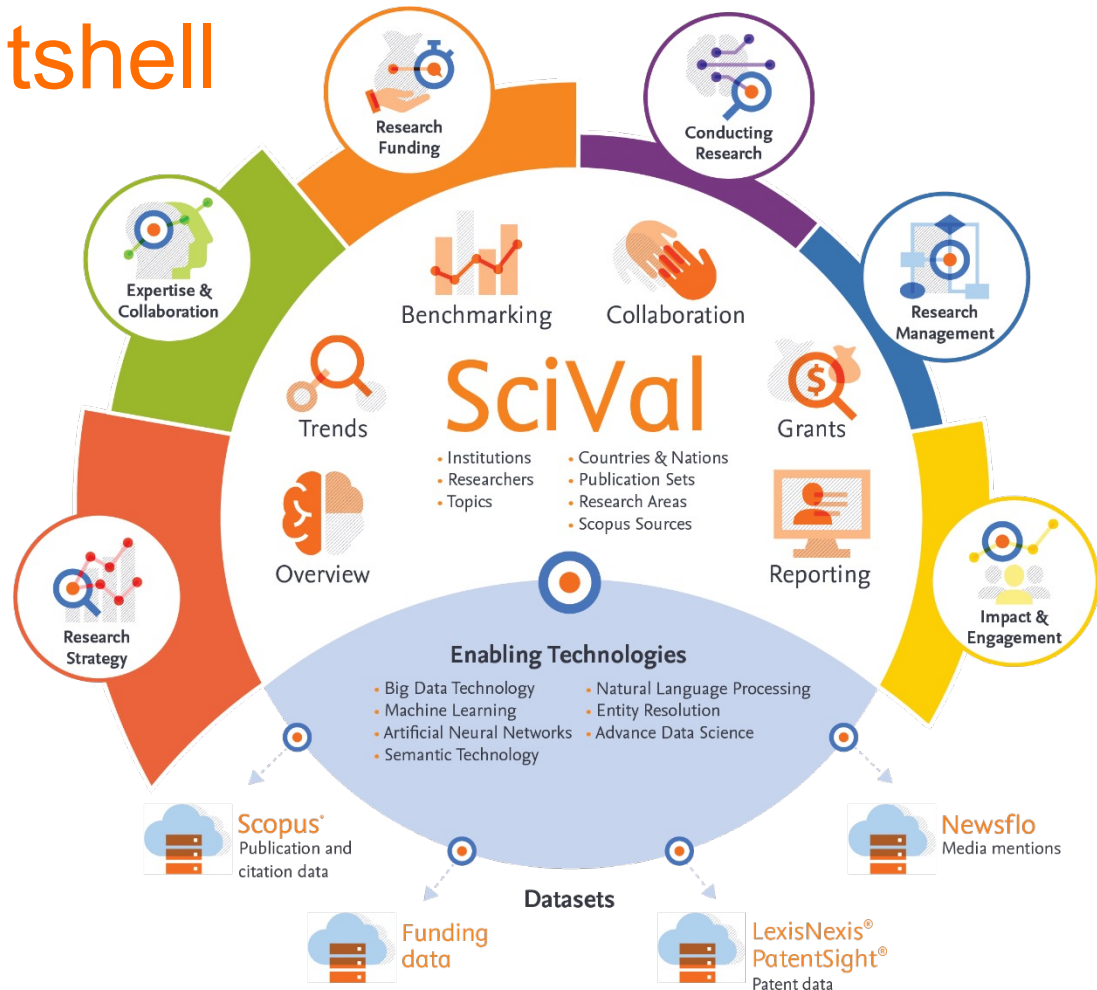
SciVal in a nutshell

Entities available to analyze

- 23,000+ Institutions from over 230 nations
- 16+M Researchers
- ~ 96,000 Topics
- 1,500 Topic Clusters
- Research Areas
- Publication Sets
- Scopus Sources

Over 300 trillion metric values

Data *updated weekly*



The array of metrics through SciVal

F. Qualitative input

Metric theme	Metric sub-theme	Metrics in SciVal	
A. Funding	Awards	Awards Volume	
B. Outputs	Productivity of research outputs	- Scholarly Output  - Number, Type and Growth - Subject Area Count	
	Visibility of communication channels	Publications in Top Journal Percentiles 	
C. Research Impact	Research influence	- Citations Count  - Field-Weighted Citation Impact  - Outputs in Top Citations Percentiles  - Citations per publication  - Cited publications <i>h</i>-indices 	- Number of citing countries - Views Count - Outputs in Top Views Percentiles - Views per Publication - Field-Weighted Views Impact
	Knowledge transfer	- Academic-Corporate Collaboration  - Citing-Patents Count - Patent-Cited Count	
D. Engagement	Academic network	- Collaboration  - Collaboration Impact 	
	Non-academic network	- Academic-Corporate Collaboration  - Academic-Corporate Collaboration Impact 	
	Expertise transfer	- Academic-Corporate Collaboration  - Citing-Patents Count - Patent-Cited Count	
E. Societal Impact	Societal Impact	- Academic-Corporate Collaboration  - Citing-Patents Count - Patent-Cited Scholarly Output	- Patent-Citations Count - Mass Media  - Media Exposure - Field-Weighted Mass Media

Elsevier has aligned with two ‘Manifestations’



ELSEVIER

Home > International Center for the Study of Research > Responsible research evaluation

Responsible research evaluation

For many years, Elsevier has supported the careful use of metrics and indicators in the evaluation of research. The International Center for the Study of Research (ICSR) was established in [June 2019](#) to work in partnership with the research community to further develop responsible approaches to research evaluation. To support this goal, Elsevier (including ICSR) has:

- Endorsed the [Leiden Manifesto for Research Metrics](#) in July 2020. The Leiden Manifesto is a set of 10 practical and action-oriented principles that guide best practice in metrics-based research assessment.
- Signed the Declaration on Research Assessment ([DORA](#) ) in December 2020. DORA is a set of 18 recommendations targeted to different parts of the research community, recognising the need for systemic change in evaluation practices.

In supporting these statements, Elsevier and ICSR have joined hundreds of organisations and thousands of individuals who are on a journey towards a fair and balanced approach to research assessment.

“Not everything that counts can be counted, and not everything that can be counted counts”.



ELSEVIER

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 RELX™

What does this mean for Elsevier's position on research evaluation?

Elsevier has consistently supported and encouraged the responsible use of research metrics in research evaluation for more than a decade, and has implemented all relevant recommendations in both LM and DORA.



SciVal Overview Benchmarking Collaboration Trends Reporting My SciVal Scopus

Netherlands ★ [Report from template](#)

2015 to 2019 All subject areas ASJC

Summary Topics & Topic Clusters Collaboration Published Viewed Cited **Authors** Institutions Economic Impact More...

Authors [Metric guidance](#) [Add to Reporting](#) [Export](#)

Top 500 authors, by Scholarly Output in the Netherlands over the period 2015 to 2019.
Note that some authors may no longer be affiliated with an Institution in the Netherlands.

Add to panel >> Benchmark in more detail

	Name	Scholarly Output	Most recent publication	Field-Weight...	h-index
1.	Hofman, Albert	610	2019	4.04	209
2.	Filthaut, Frank	545	2019	4.07	102
3.	Colijn, Auke Pieter	541	2019	4.43	96
4.	Caron, Sascha	521	2019	4.19	97
5.	de Jong, Paul D.	514	2019	4.65	97
6.	Vermeulen, Joseph C.	511	2019	4.29	92
7.	Kluit, Peter Martin	509	2019	4.26	96
8.	Bobbink, G. J.	507	2019	4.27	95
9.	König, Adriaan C.	507	2019	4.27	95

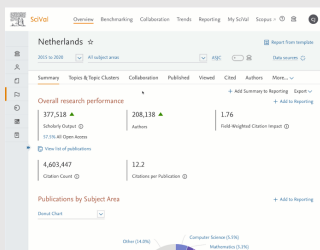
SciVal

Insightful analyses to inform research strategy and enhance research success

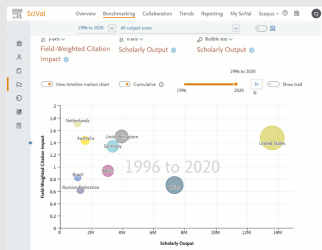
SciVal provides access to the research performance of over 20,000 research institutions and their associated researchers from more than 230 nations worldwide



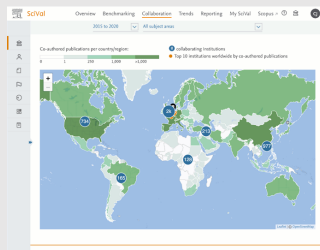
Ready-made-at a glance snapshots of any entity of interest



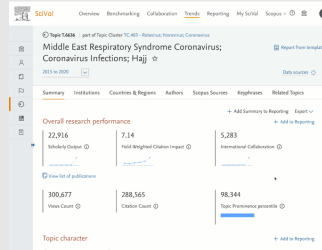
Flexibility to create and compare any research group or entity of interest



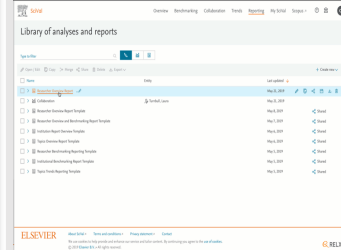
Identify and analyze existing and potential collaboration opportunities



Analyze research trends to discover the top performers and rising stars

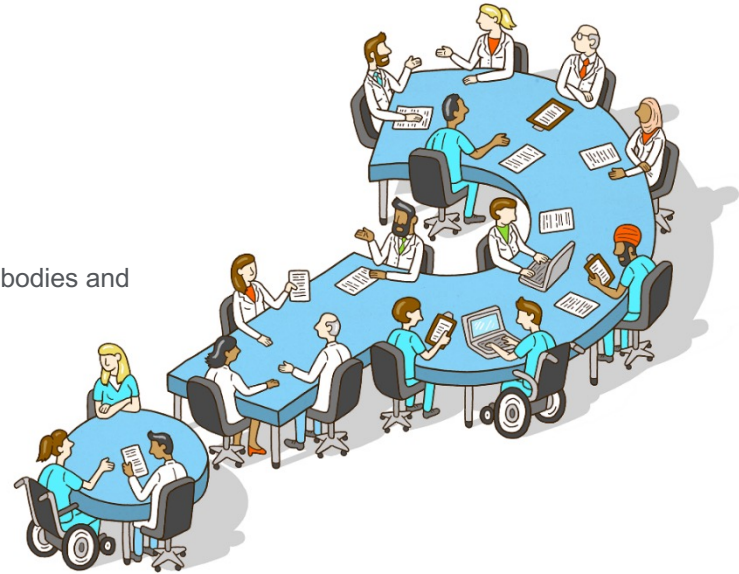


Produce and share reusable reports with colleagues



What are users trying to achieve?

1. **Evaluate** and **monitor** the **research performance** of the institution, research groups and researchers
2. **Develop**, execute and **evaluate** research strategies with reliable evidence
3. Make **strategic investment decisions** based on a strong evidence base
4. **Visualize** and **benchmark** the quality and impact of their research activities
5. Analyze and **understand University Rankings** to inform planning decisions
6. **Demonstrate** and **showcase** achievements and **research excellence** to funding bodies and governments (e.g. National assessments) in a global context
7. **Recruit, retain and promote** talented researchers and faculty members
8. Identify **top performers and rising stars** across all research fields
9. Evaluate **existing and identify potential collaboration partners** across sectors
10. **Identify** emerging, growing and niche areas of research
11. **Identify** and analyse new research Topics & trends



Develop and execute your research strategy with insightful analyses

"I am setting up a center of excellence. How can SciVal help me **profile and explore our research activities and compare them globally?**"

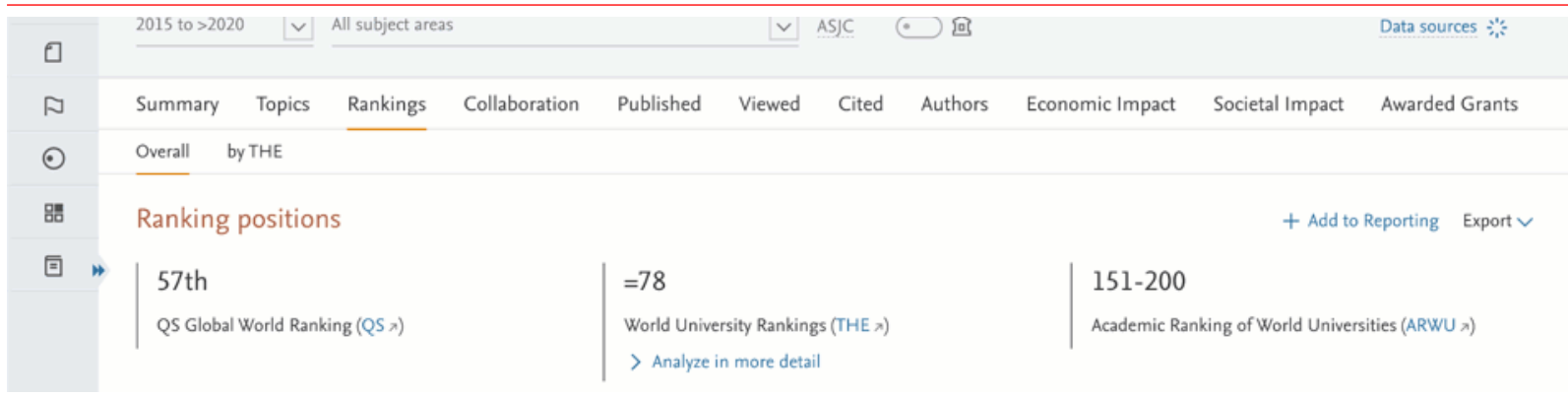
“Who is excelling in specific Topics or fields such as SDG-related research and represents potential collaboration or partnership opportunities?”

“What are our **emerging, growing and niche areas of research expertise?**”



Research Strategy

SciVal



- Understand and benchmark research performance, your portfolio of research strengths and the global research landscape
- Analyze global, national and institutional research trends
- Benchmark within your institution and externally with peers

Focus on Strategic Research Planning

Example tasks to be performed



Focus on Strategic Research Planning

How can SciVal help?



Research strategy support for a broad range of users

SciVal supports the research strategy of a broad range of institutional users by providing flexible, institution-specific insights and analyses



Vice President for
Research

- Evaluate **research activities** to inform **strategic research planning**
- Consume and interpret signals to help take **strategic partnership decisions**
- Analyze **research performance summaries** of any research entities **unique research strengths** and multidisciplinary research areas
- Identify areas of strength and **niche expertise** to focus support
- Understand **University Rankings** to inform **planning decisions**



Research Services

- Create **management-level reports** to inform **research strategy and planning**
- Identify signals to **support strategic partnership decisions**
- Create **research performance summaries** of any research entities **unique research strengths** and multidisciplinary research areas
- Analyze and **understand University Rankings** to inform planning decisions



Deans / Heads of
Department

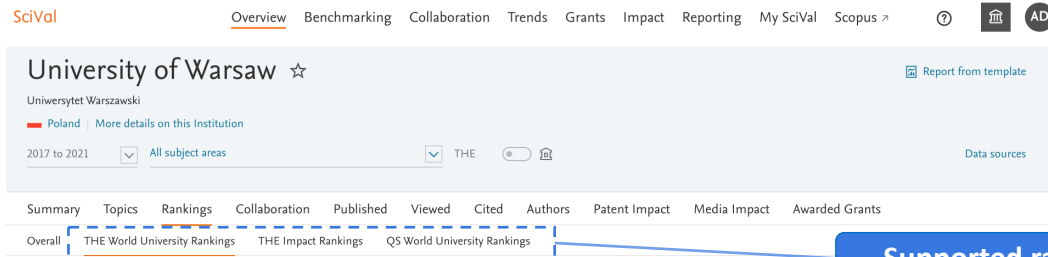
- Evaluate research activities and performance to **inform strategic research planning** for my faculty or department
- Consume and interpret signals and **performance summaries** to help take **strategic partnership decisions** for the faculty or department
- Identify our **areas of strength** and **niche expertise** to focus support



Faculty and
Researchers

- Understand **global research** aligned directly and indirectly with **my research expertise** to inform my **research strategy** and **advance my career**
- Consume and interpret signals to help me take **strategic partnership and collaboration decisions**

Analyze the drivers behind the THE (or QS) Citation Scores: 30% of the Overall THE ranking score (will be updated according to their new methodology)

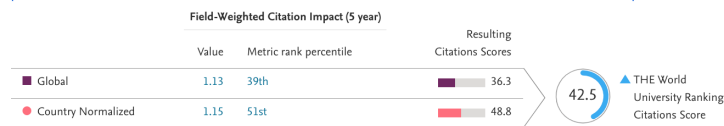


Supported rankings

Times Higher Education (THE) World University Rankings

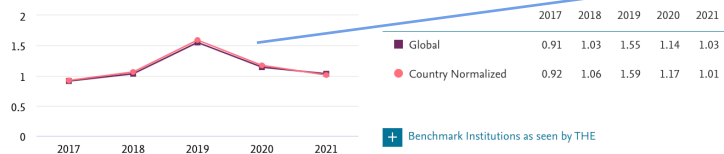
Ranking year 2023

Citations indicators

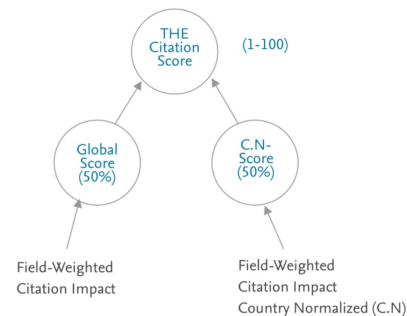


Field-Weighted Citation Impact (5 year)

Breakdown per year

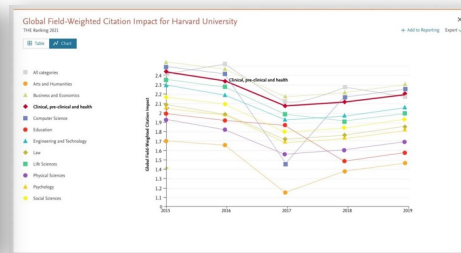
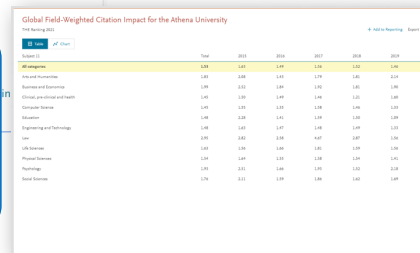


FWCI 5 year trends



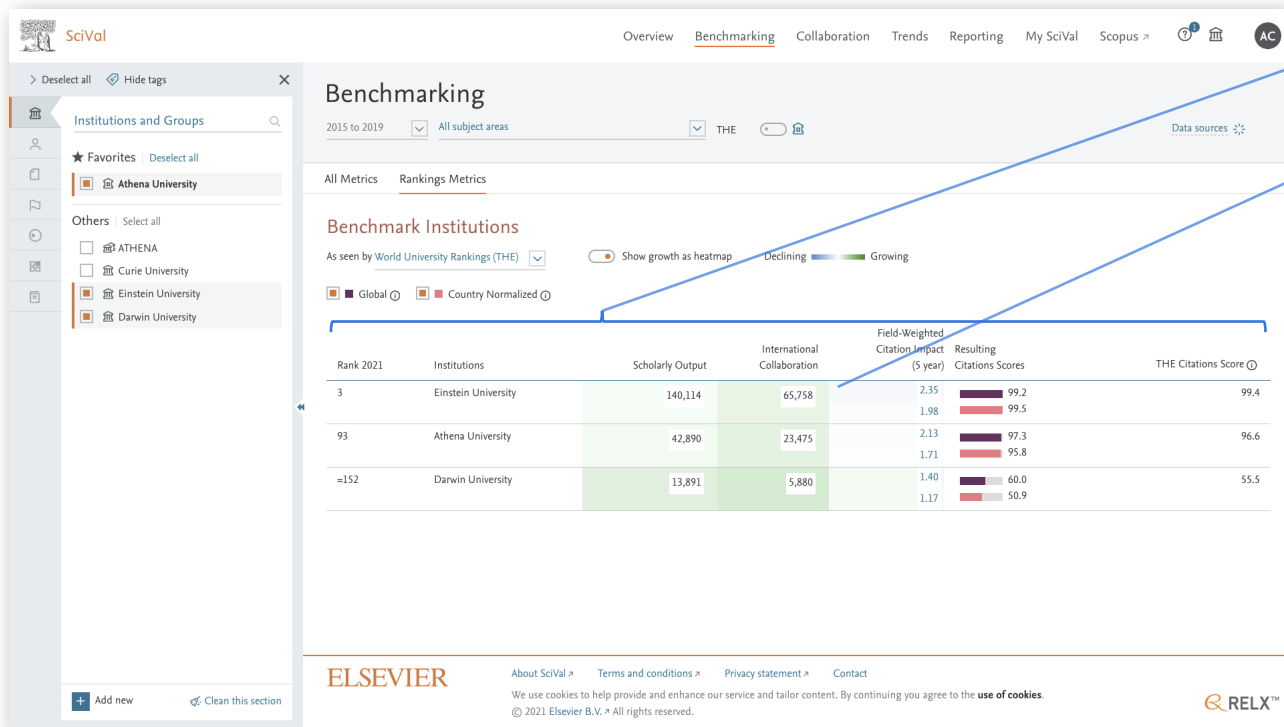
Citation Score with the underlying:

- Global FWCI scores &
- Country-normalised FWCI scores



Benchmark with peers and analyze ranking trends:

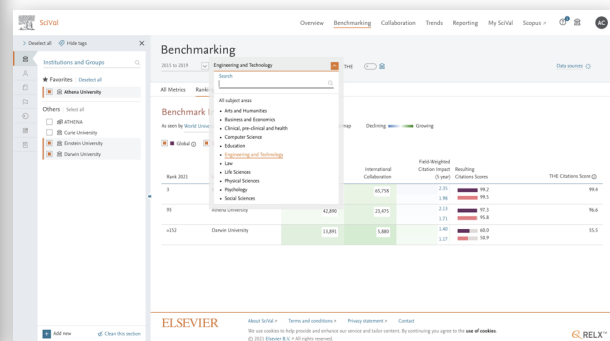
Analyses and information to understand performance and inform plans



Benchmark with peers across all bibliometric drivers

Heatmap visualizing trends

Compare on THE subject level



Expertise & Collaboration

Advance your research programs with authoritative data and analyses on global research expertise

"How can I **identify expertise** on and beyond campus to help with **Team building efforts**?"

"How can I identify existing and **potential collaboration partners**, globally and **across sectors**?"

"How can I use the **metrics and analyses** to **compare** our existing **expertise** to that of a potential new faculty member?"

"What **corporations** have been investing in **research areas** where we are particularly strong?"

"Where can I find an **expert** in an **emerging interdisciplinary Topic** or field?"

"How can I **identify key researchers** in a specific Topic or field to develop and **strengthen targeted funding bids**?"



Expertise & Collaboration



- Assess current partners and zero in on suitable experts who could represent partnership opportunities in the future
- Help team building efforts through comprehensive profiles to identify research expertise on and beyond campus

Identify and profile global research expertise

SciVal provides comprehensive profiles to help a broad range of institutional users identify and profile expertise across sectors and research fields



Vice President for
Research

- **Assess partnerships** and zero in on areas, **institutions and corporates** who could represent **strategic partnership** opportunities
- **Identify experts in key fields** of interest and relevant to the university strategic direction for **targeted recruitment**



Research Services

- Produce **analyses and reports** to help assess current partners and zero in on suitable **partnership opportunities** in the future
- Help **team building** efforts through **comprehensive profiles** to identify **research expertise** on and beyond campus



Deans / Heads of
Department

- **Assess partnerships**, research areas and researchers, **across sectors**, who could represent **strategic opportunities** for the faculty or department
- **Identify experts** relevant to the faculty or department strategic direction for **targeted recruitment** or **funding bids**



Faculty and
Researchers

- **Identify experts** who could represent **strategic partnership** or recruitment opportunities for my **research team**
- Identify **key researchers** in a specific Topic or field to develop and **strengthen targeted funding bids**

Research Funding

Maximize your funding success with insights to help team building and targeted funding bids

“What metrics can I use to **demonstrate my expertise** and excellence in my **grant applications**?”

“How can I **profile a specific field** or Topic to support the **building of interdisciplinary research teams** for targeted funding bids?”

“How can we **identify the key researchers** in a specific Topic or field to **strengthen our funding bids**?”



“What **corporations** have been **investing in research areas** where we are particularly strong and could represent a **funding opportunity**?”



- Define expertise required – Topics, Research Areas, Publication Sets from search strings
- Identify key contributors in the specific area defined
- Use metrics to analyze past outputs, impacts and collaborators/partners
- Decide if any would make good team members (internal and external) to strengthen funding bid with metrics as one part of evidence base for the decision

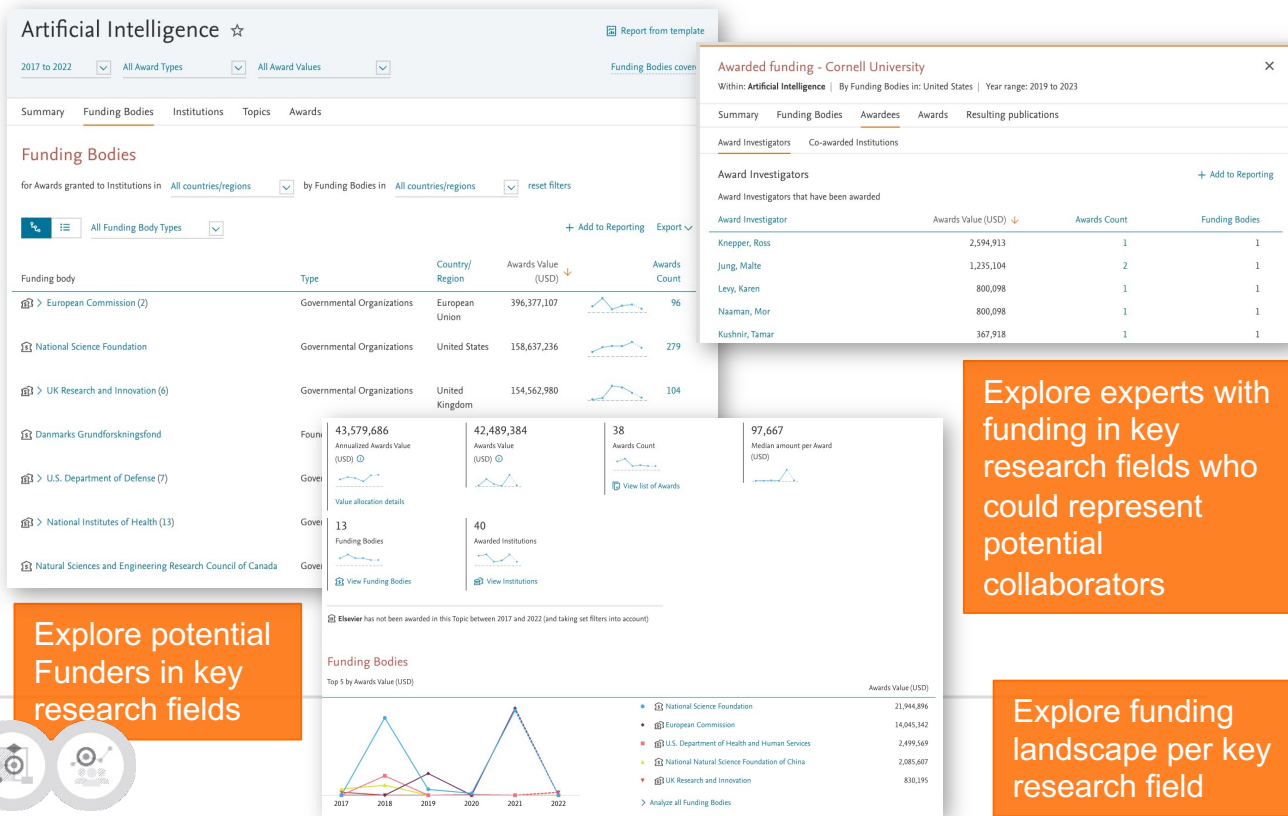
Focus on Strategic Research Planning

How can SciVal Grants help at the university, faculty, department and research group level?



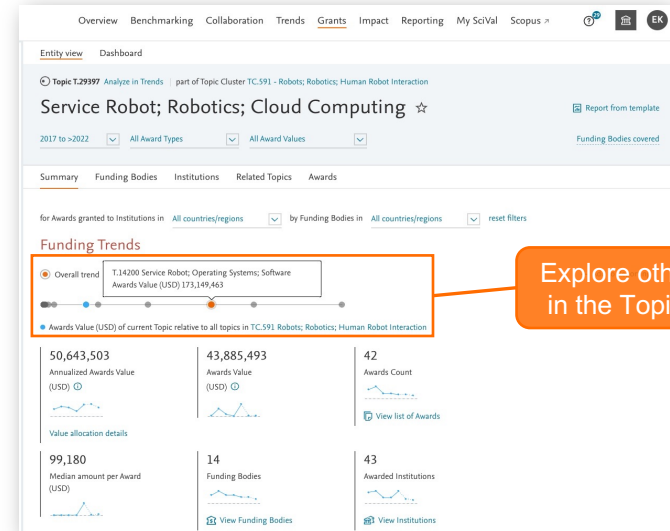
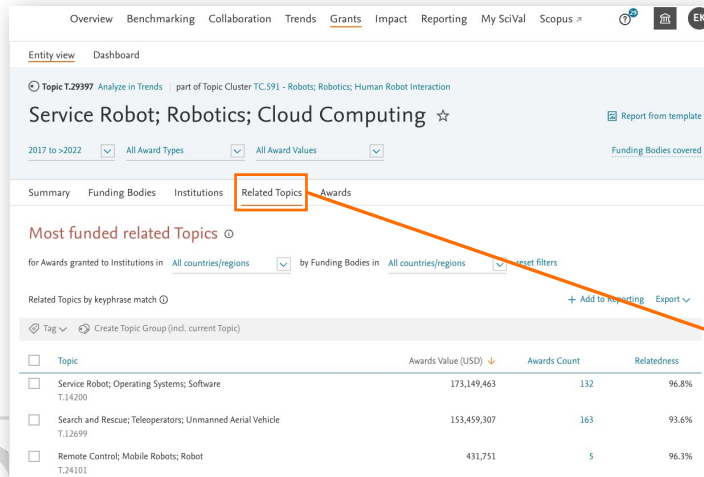
What is the external funding landscape in our priority research fields?

- Which funding bodies and how much are they investing?
- Who are the experts with funding in our priority fields?
- Which Institutions and Researchers represent collaboration/partnerships opportunities to enhance a strategic area and attract more funding?



Are there related or adjacent fields attracting funding that we should explore?

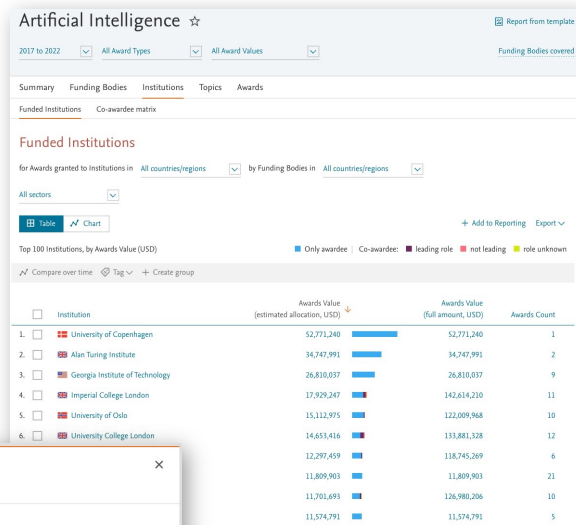
- Which funding bodies are investing?
- Which Institutions and Researchers represent opportunities to help us expand into new strategic fields?



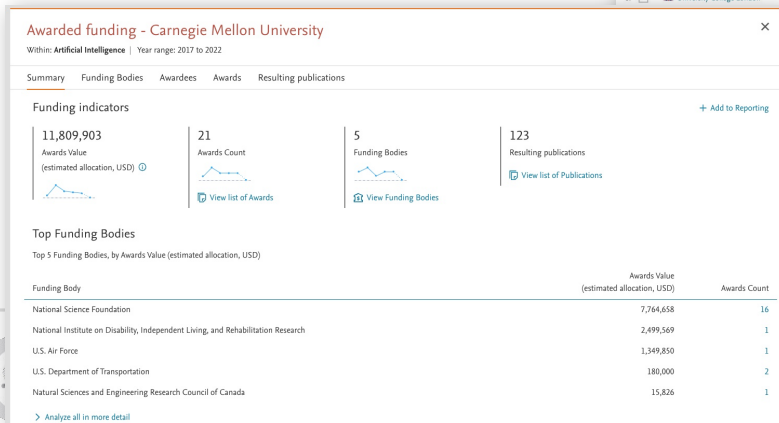
Discover Related Topics that are attracting large amounts of funding

Investigate the funding profiles of peer Institutions within research fields of interest

- What fields are our peer institutions attracting funding in?
- Who are the experts who could represent partnership/collaboration/recruitment opportunities?
- Which funding bodies are our peer institutions winning funding from?



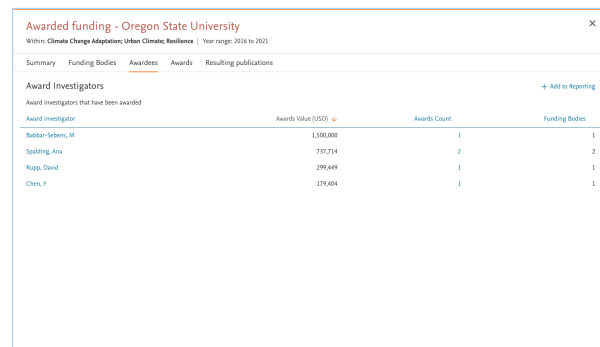
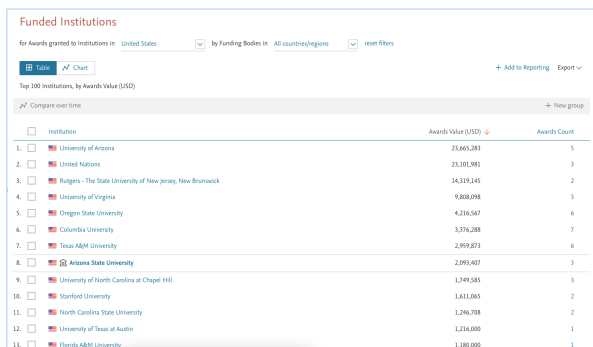
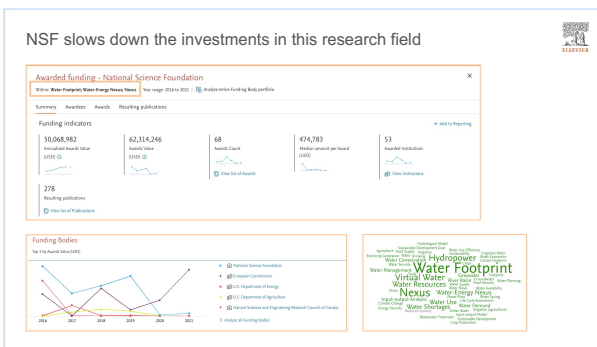
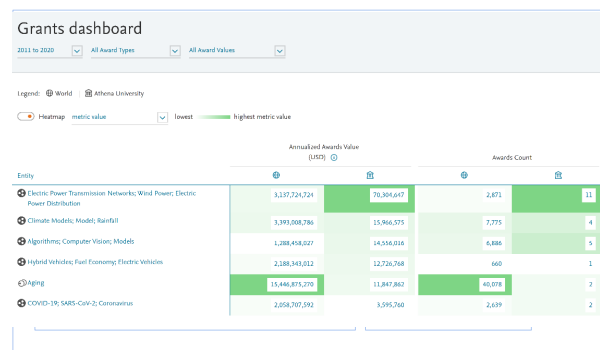
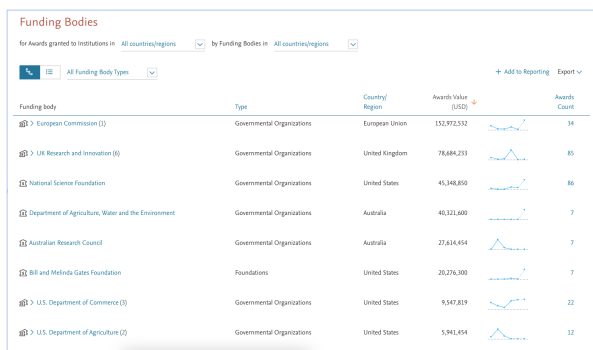
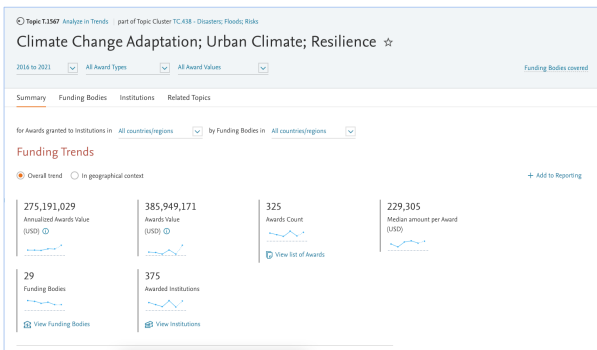
Identify other Institutions being funded in priority fields



Explore the funding profile of peer Institutions

SciVal Grants

Funding landscape intelligence to support strategic planning and execution of research strategies



Impact & Engagement

Demonstrate and showcase your impact and engagement

“What is the **impact** of our **corporate collaborations**?”

“How can I **showcase and benchmark** my institutions **expertise**, outputs, **impact**, influence and overall contribution to **specific fields** such as the **UN SDGs**?”

“Are we considering the full breadth of the **research impact** of faculty candidates for **appointments and promotions**?”

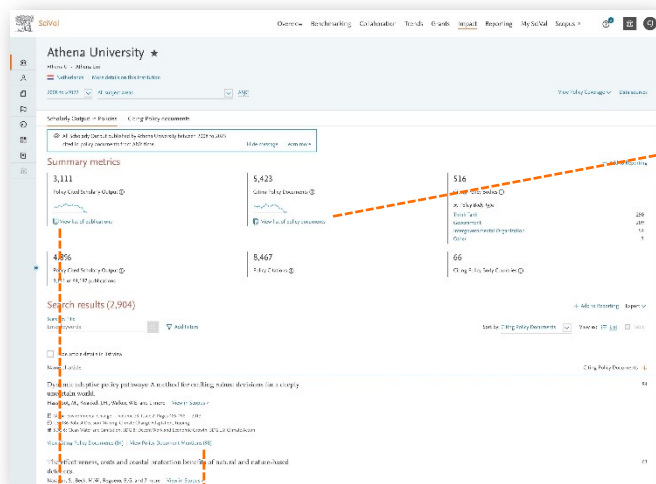
“What is the **geographic reach** of our research activities?”

“What **metrics** can we use to help us **evaluate and benchmark** researcher, department, faculty and institutional **performance**?”

“How can we **demonstrate and benchmark** the **impact or influence** of our research teams in **funding bids**?”



Use impact metrics to identify policy mentions and build narratives to demonstrate your research impact



2 Uncover publication mentions within policy documents

3 Identify the citing policy documents

All Citing Policy Documents

University Output Explorer of science-related items | University of Birmingham, August 2022 | View in Scopus | More Details

Policy Body Type	Policy Title	Policy Year	Policy Body Type	Policy Citations
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423

All Mentions in Policy Documents

Scholarly Article: The economic rationale for investing in stunting reduction. View in Scopus | More Details

Applied Filters: World Bank AND 2020 Reset Filters

Policy Body Type	Policy Title	Policy Year	Policy Body Type	Policy Citations
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423
Government	Advisory Committee on the Physical Science Basis	2021	Government	5,423



1 View list of publications cited in policy documents

Understand the full scope of a policy document and read the policy document

1 Identify the citing policy documents

2 Understand the full scope of a policy document

3 Link directly to read the policy document

Search results (2,904)

Policy documents citing publications at the Athena University

Policy Title	Policy Type	Year	Policy Cited Scholarly Output
Global assessment report on biodiversity and ecosystem services of the Convention on Biological Diversity	Policy Study	2019	4,498
Global Environmental Outlook 3	Policy Study	2019	614
Global Biodiversity Outlook 2019	Policy Study	2019	694
Global Biodiversity Outlook 2019	Policy Study	2019	694
Global Biodiversity Outlook 2019	Policy Study	2019	694
Global Biodiversity Outlook 2019	Policy Study	2019	694
Global Biodiversity Outlook 2019	Policy Study	2019	694
Global Biodiversity Outlook 2019	Policy Study	2019	694
Global Biodiversity Outlook 2019	Policy Study	2019	694
Global Biodiversity Outlook 2019	Policy Study	2019	694

View Policy Document

View list of Policy Cited Scholarly Output

View list of Mentions of Policy Cited Scholarly Output

Visit source page

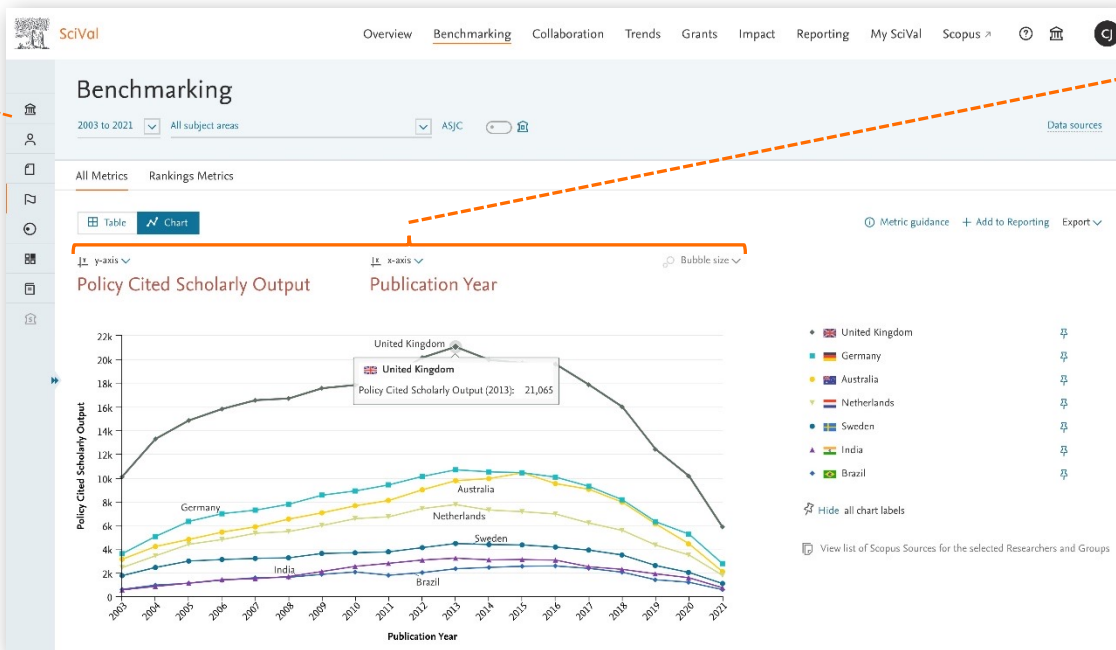
Beyond COVID-19: A feminist plan for sustainable and social justice

Publication year: 2021

Abstract: The COVID-19 pandemic has exposed the fragility of our current system and the need for a more sustainable and just world. This plan proposes a feminist approach to sustainable development, focusing on the needs of the most vulnerable and the most marginalized. It calls for a shift in power, a reorientation of values, and a commitment to the well-being of all. The plan is based on the principles of feminism, which emphasize the importance of gender equality, social justice, and the rights of women and girls. It is a call to action for all of us to work together to create a more sustainable and just world for all.

Benchmark your impact and policy influence against peers

1
Choose entities of interest



Collaboration

Published

Viewed

Cited

Policy Impact

Policy Cited Scholarly Output

The number of Scholarly Outputs that are cited in Policy documents.

Learn more about this metric >

Include:

All publication types

Articles only

Articles and conference papers

Articles and reviews

Articles, reviews and conference papers

Articles, reviews, conference papers, books and book chapters

Books and book chapters

Awarded Grants

Publication Year

Choose metric >

2
Choose impact metrics to Benchmark entities

Impact & Engagement

Understand and analyze your contribution to research fields through Topics or Research Areas such as the UN SDGs

- 16 of the [17 SDGs](#) are available to analyze on SciVal as predefined Research Areas using newly updated queries.
- The queries were **created by our data science teams** working with experts to create representations of each SDG and enable detailed analysis of the research contributing to achieving the SDGs.
- **We are open and transparent about our methodologies.**
 - The queries and documentation supporting the **2021** search query methodology are [freely available in Mendeley](#)
 - The queries and documentation supporting the **2020** search query methodology remain [freely available in Mendeley](#)
- THE are **using the queries** as part of the **THE Impact Rankings methodology**



Demonstrate your research excellence

An array of simple and sophisticated metrics enable you to demonstrate and showcase your expertise, outputs, impact and influence



Vice President for Research

- Present the **impact or influence** of the university to **governments, funders, philanthropic donors** and potential **strategic partners**
- **Showcase** my institutions **expertise**, outputs, **impact** and influence to **key media outlets** through media team to ensure **reputational maintenance** and **gains**
- Evaluate researcher and institutional performance and impact



Research Services

- **Help faculty and researchers** present their **impact or influence** of project teams in **grant applications**
- **Help the institution showcase** expertise, outputs, **impact and influence** by providing key **analyses and reports**
- Produce reports to assist with **evaluating** research **performance** and **impact**



Deans / Heads of Department

- **Present the impact** of the **faculty/department** to the **university, governments, funders, philanthropic donors** and potential **strategic partners**
- **Showcase** my faculty or department **expertise**, outputs, **impact and influence** to key **media outlets** through media team to ensure **reputational maintenance** and **gains**
- **Evaluate** researcher, faculty and department **performance** and **impact**



Faculty and Researchers

- Present the **impact or influence** of researchers in a **grant application team**
- **Showcase** the **impact or influence** of you and your **research team**
- **Showcase** my research teams **expertise**, outputs, **impact and influence** to key **media outlets** through media team to ensure **reputational maintenance** and **gains**

UN SDGs in SciVal

- **16 of the 17 SDGs** are available to analyze on SciVal as predefined Research Areas using newly updated queries.
- The queries were **created by our data science teams** working with experts to create representations of each SDG and enable detailed analysis of the research contributing to achieving the SDGs.
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 - The queries and documentation supporting the **2020** search query methodology remain [freely available in Mendeley](#)
- **We continue to collaborate and gather feedback with customers and the community** to help improve the queries in the future
- **THE** are **using the new queries** as part of the **THE Impact Rankings methodology**
- **We have both the 2020 and 2021 SDGs in SciVal** so customers can compare the differences between the 2 sets of mappings





ELSEVIER

Topic Prominence And Trends Analysis in Science

Mapping and evaluating global research through citation links

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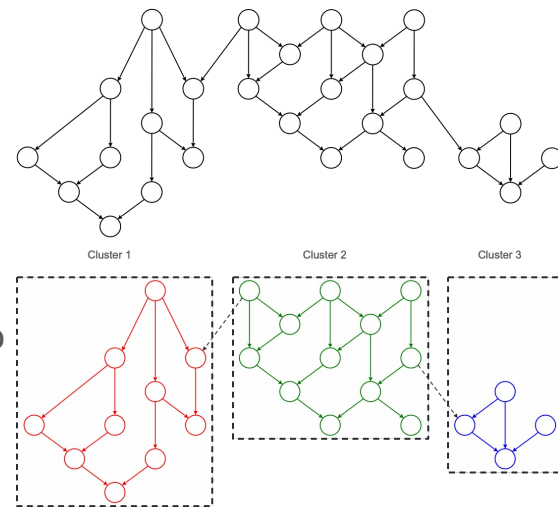
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Topic Prominence in Science

- A Topic is a collection of documents with a common focused intellectual interest.
- Topic can be regarded as a research problem.
- They can grow or decline, be large or small, new or old, mono or multidisciplinary. They evolve. Old topics may be dormant, but still exist.
- We have identified **~96,000 research Topics** and later combined them into **1500 Topic Clusters** and ranked them by Prominence.
- **Prominence = momentum** (not the same as importance!)
- **Prominence** looks at **very recent citations, views** and **CiteScore** values.
- **High Prominence Topics are often well funded***.
- A research paper relates only to one topic.



We clustered 50 mil Scopus publications (1996 – 2022) using direct citation linking

Maps of global science:

R. Klavans, K.W. Boyack / *Journal of Informetrics* 11 (2017) 1158–1174

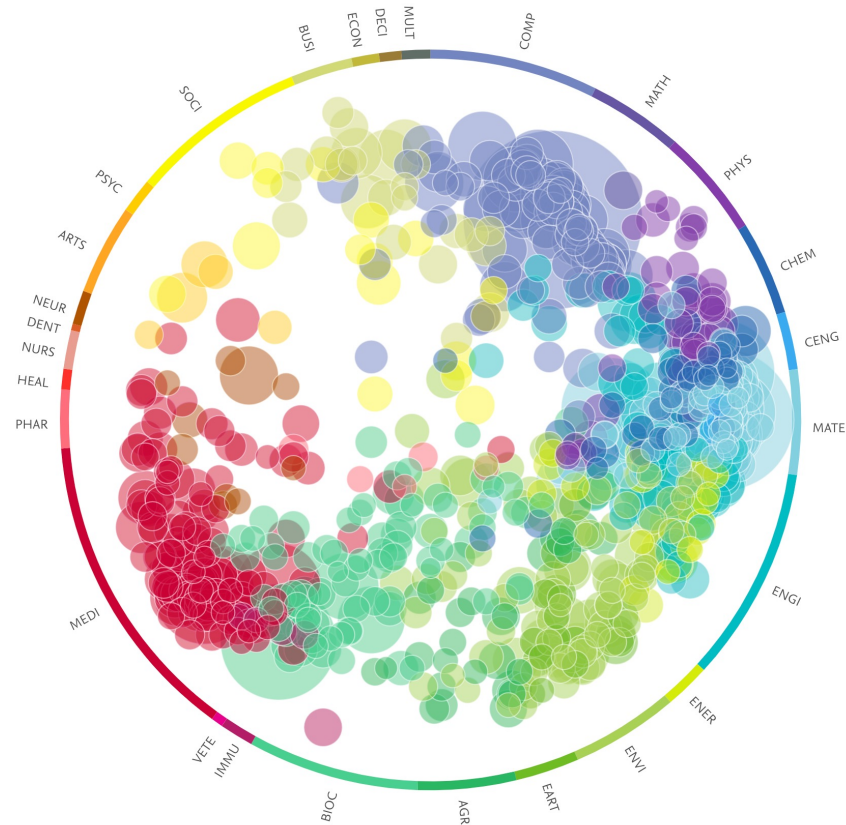
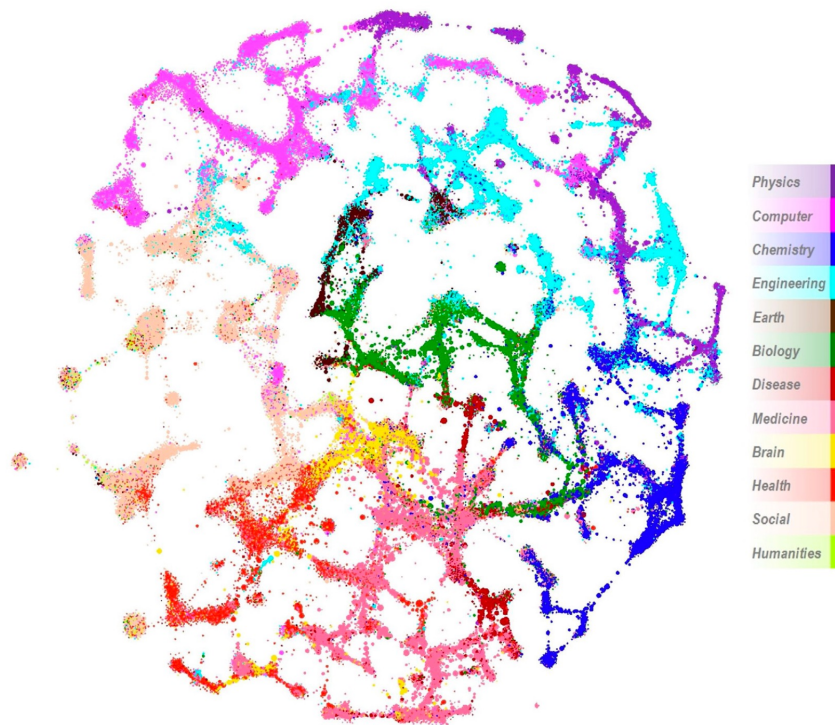
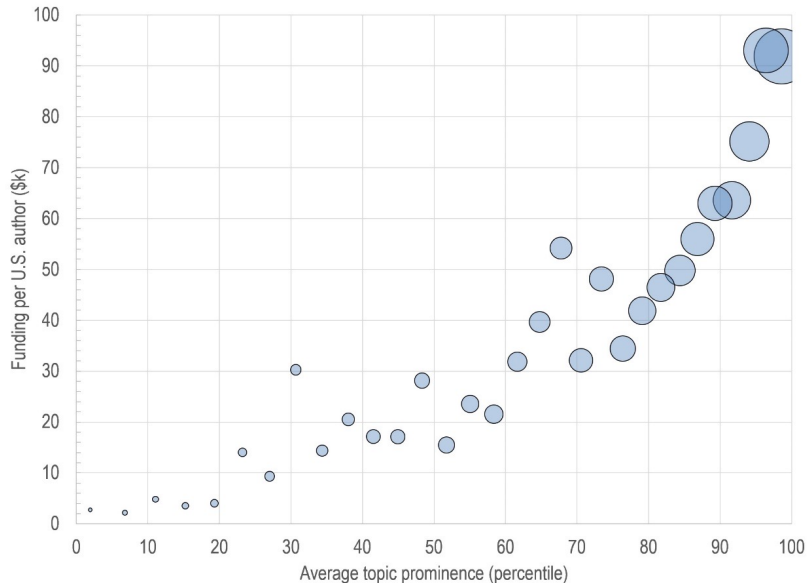


Fig. 1. Visual map of the STS model of science. Each dot represents a topic.

Prominence and funding:



Klavans, R. and K.W. Boyack, Research portfolio analysis and topic prominence. *Journal of Informetrics*, 2017.

- Prominence correlates with size, so is size the driver here?
- To test this, we looked at funding per author as a function of prominence:
 - If size is the driver, then funding per author will be independent of prominence
- Funding per author increases with prominence; thus prominence is a good predictor of funding

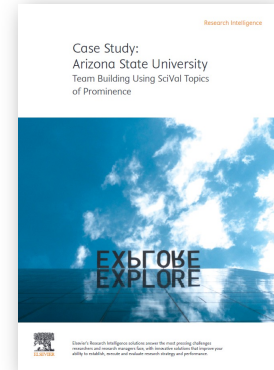
Using and interpreting Topics

Some examples

Use case 1 – Identifying experts to facilitate team building for targeted funding bids in key fields

Psychological Support; Mindfulness; COVID-19

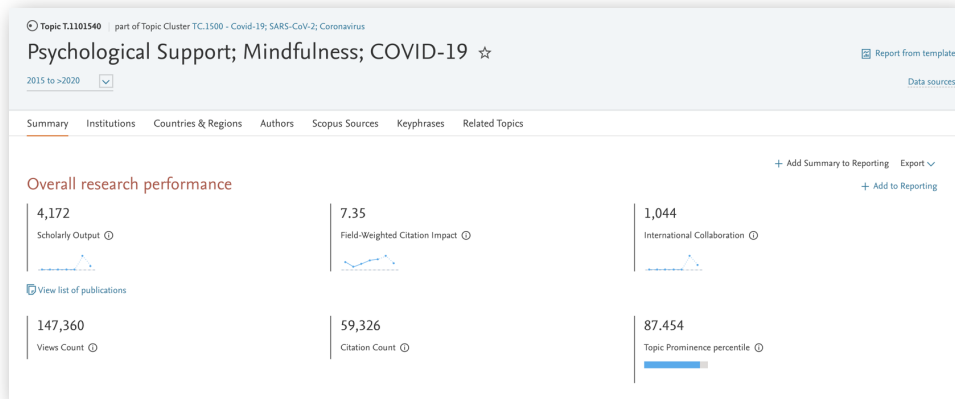
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[Customer case study](#)
[similar example](#)

Analyze new Topic in SciVal

- Overview module:
 - Look at table view of all new Topics
 - Search for new Topic of interest
- Analyze worldwide which takes you to Trends
- View list of authors to help identify experts of potential interest



Summary Institutions Countries & Regions Authors Scopus Sources Keyphrases Related Topics

Top authors

Worldwide

Table Chart

+ Add to Reporting Export

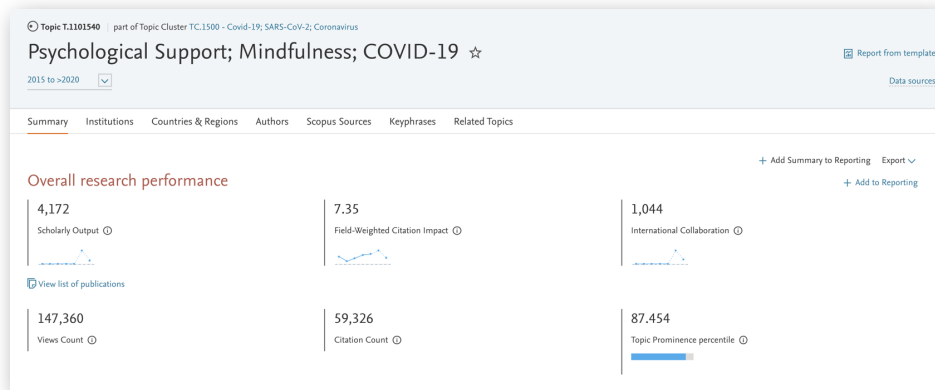
Top 500 authors in this Topic, by Scholarly Output

View on Chart Add to panel

	Author	Affiliation	Scholarly Output	Views Count	Field-Weighted Citation Impact	Citation Count
1.	Greenberg, Neil	King's College London	5	287	5.82	154
2.	Rubin, G. James	King's College London	4	208	7.10	131
5.	Neria, Yuval	Columbia University	3	131	10.91	170
3.	Amiot, Richard	Public Health England	3	182	8.66	116

Analyze identified experts in more detail or invite to workshop

- Group experts to scenario model how they could compliment existing research team(s)
- Invite experts on and off campus to for example a workshop to generate project ideas in key field



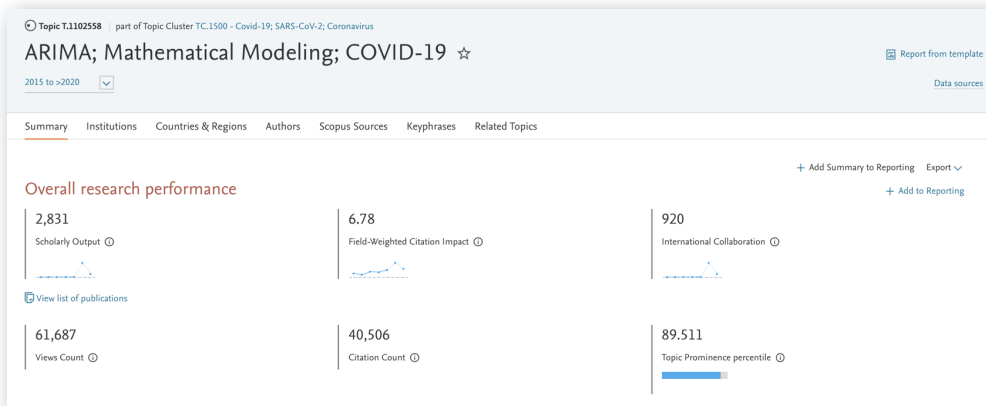
Use case 2 – Identifying experts as potential collaborators / partners / mentors in a new Topic of interest

ARIMA; Mathematical Modeling; COVID-19

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Analyze new Topic in SciVal

- Overview module:
 - Look at table view of all new Topics
 - Search for new Topic of interest
- Analyze worldwide which takes you to Trends
- View list of authors to help identify experts of potential interest



Top authors

Worldwide ▾

Table Chart

+ Add to Reporting Export ▾

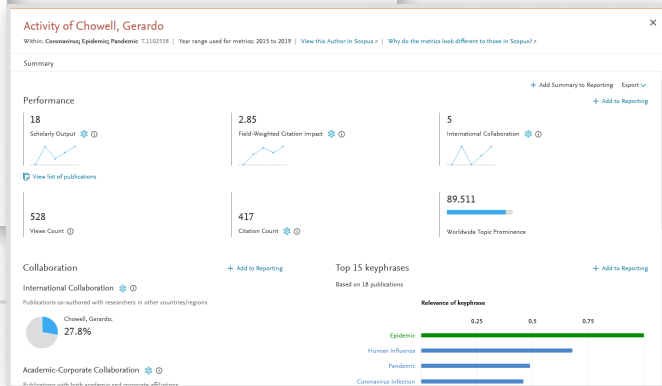
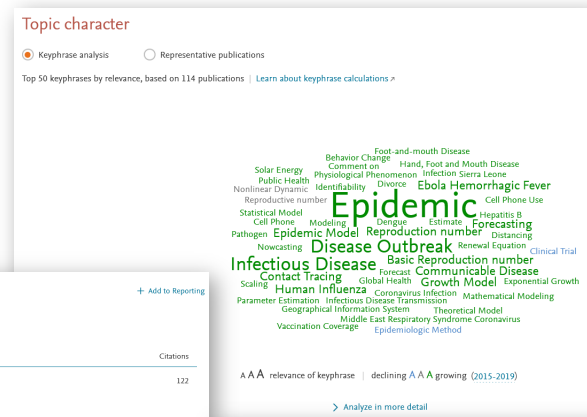
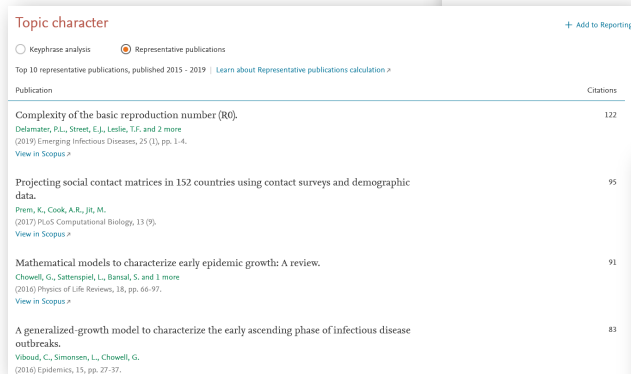
Top 500 authors in this Topic, by Scholarly Output

View on Chart Add to panel

☐ Author	Affiliation	Scholarly Output ▾	Views Count ▾	Field-Weighted Citation Impact ▾	Citation Count ▾
1. ☐ Chowell, Gerardo	Georgia State University	18	528	2.85	417
2. ☐ Viboud, Cécile G.	National Institutes of Health	6	296	3.02	266
3. ☐ Champredon, David	Western University	5	54	1.39	48
4. ☐ Cori, Anne	Imperial College London	4	155	6.24	136
5. ☐ Dushoff, Jonathan G.	McMaster University	4	41	1.63	45
6. ☐ Jombart, Thibaut	London School of Hygiene and Tropical Medicine	4	148	6.00	134

Import researchers of interest to analyze in more detail

- Analyze Topic in more detail
- Explore authors of interest further to confirm alignment with your area of interest and any other criteria



Customer stories

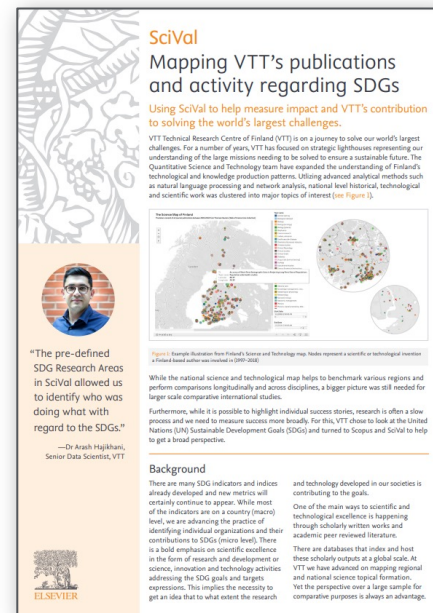
VTT Technical Research Centre of Finland – Mapping VTT's publications and activity regarding SDGs

Publications are a practical proxy, particularly in the case of Research and Technology Organizations (RTOs) such as VTT, as publications serve as reports of intermediary steps towards the application and later commercialization of research.

VTT plays a key role in national and international innovation partnerships and has for years been the most active Finnish participant in EU-funded research projects. **But how has the research by VTT contributed to progress around the SDGs?**

“The pre-defined SDG Research Areas in SciVal allowed us to identify who was doing what with regard to the SDGs.”

“SciVal is supporting us with the comprehensive use of our Science, Technology and Innovation metrics and validates our contribution on a wider scale.”



VTT Technical Research Centre of Finland – Mapping VTT's publications and activity regarding SDGs

Using SDGs as a tool to concretize actions and capabilities enables STI actors to mobilize the resources needed to tackle the challenges.

Linking SDGs to scientific publications offer a practical vantage point to measure **how science impacts SDGs**.

Further, through **quantifying Academic Corporate** collaboration we gain a valuable **view into knowledge transfer** and **interplay** between **STI system actors**.

“The organization of the harmonized data in SciVal makes it possible to do all sorts of creative and insightful analysis.”

“While knowing in detail the dynamics of science, technology and innovation of our base country, SciVal and Scopus enable controlled benchmarking with other countries.”

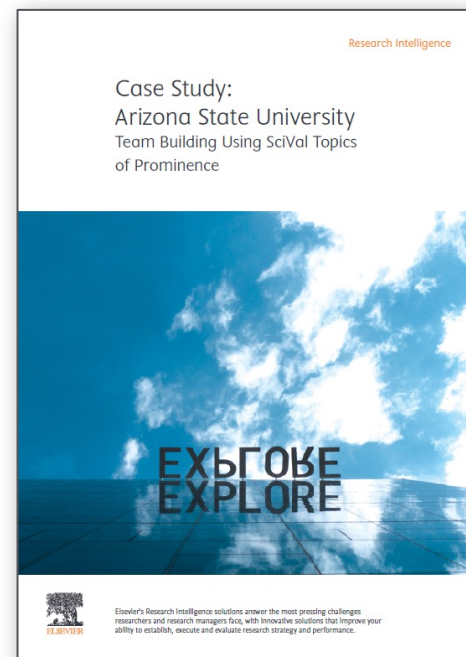


Arizona State University – Team building using Topics

When ASU wanted to hold a workshop focused on how to make progress in the fight to overcome America's substance abuse and addiction crisis, they needed a comprehensive strategy for finding experts to participate, generate ideas and form research teams.

In this case study, you will learn how the data in SciVal and SciVal's Topic Prominence in Science provided a **key starting point to identify strengths**, the **focus area** for the **workshop** and the **faculty** to include.

“The data from **SciVal** was a very important factor in helping us to identify our strengths. We used the information to identify a focus area for our design workshop as well as faculty to include.”



Full customer story: [PDF \(direct link\)](#) | [PDF \(landing page\)](#)

University of Surrey – Understand strengths to increase collaborations and target funding bids

Seeking a greater understanding of their research strengths and profile, the university combined the data and analytics capabilities of SciVal and Scopus with faculty interviews and existing university research information to gain a more holistic view of the university's research profile. This included a website aimed at **improving communications** around **research activities** and expertise, **fostering collaborations** and **targeting funding opportunities** more effectively.

“Use of Elsevier products provided insight into our research assets including financial, equipment, external and internal collaborations, and most importantly our strengths.”

Research Intelligence

Case Study:
University of Surrey
Increasing collaborations and helping target funding bids by using SciVal and Scopus to better understand research strengths.



 Elsevier's Research Intelligence solutions combine quality, structured, interoperable data, advanced analytics and an array of indicators and metrics to provide research executives with key insights to address critical challenges and expand research excellence.

University of Johannesburg – Grow innovative research

UJ is focused on becoming an innovative research enterprise. To achieve that goal, it leverages the Elsevier Research Intelligence suite of solutions **Scopus**, **ScienceDirect** and **SciVal**. These solutions work in unity to **help UJ attract collaborators, graduate students and colleagues with complementary skills**, who will work together to **enhance the university's reputation**.

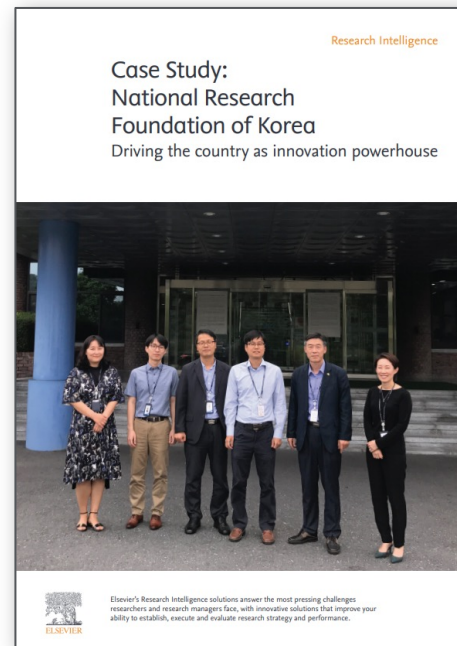
“ ...SciVal is unbelievably useful for us, because it helps us to benchmark...it also helps us to see where on rankings we are, what funding is available, and what are our competitors doing. ”



National Research Foundation of Korea – Driving the country as innovation powerhouse

To align its multibillion-dollar budget to the demands of Industry 4.0, it **needed to stay on top of emerging insights and best practices**, as well as optimize its ongoing world-class research with deeper explorations of specific domains in, namely 3D printing, artificial intelligence (AI), big data, cloud computing and the Internet of Things (IoT). **This depth of analysis required the NRF to look for a solution that could support its researchers.**

“If we are to push the envelope with our research strategy and support increasing the rate of technology transfer from research to industrial use in Korea, SciVal would be a necessary part of that process.”

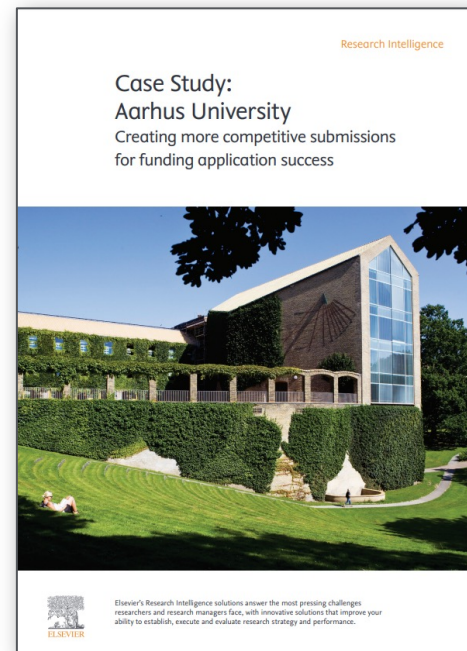


Aarhus University – Creating more competitive submissions for funding application success

To meet its research targets, the university's Research Support Office is tasked with successfully identifying and winning research funds.

The team faces two main challenges with regards to securing funding. The first is that the research landscape in Europe has evolved to become more multi-disciplinary, which makes submitting suitable researchers for a funding call more complex. Secondly, the competition for the funding calls has also intensified, **so the team needs to ensure that their researchers are supported with evidence to help differentiate them from external candidates.**

“SciVal has empowered us to take an evidence-based approach to obtaining more research funds.”

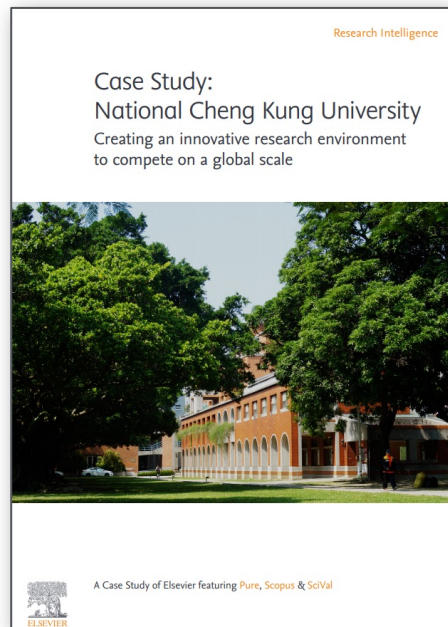


National Cheng Kung University – Compete on a global scale

To enhance its role internationally, NCKU uses Elsevier's Research Intelligence solutions **Pure**, **SciVal** and **Scopus** – combined with customized consulting options. Together, they give NCKU the tools to quantify its research achievements, assess the potential impact of new faculty, and manage multi-institutional projects. **These outcomes directly affect NCKU's ability to gain the funding and faculty needed to maintain the university's research reputation and continue contributing to the country's economic growth.**

“Through comparisons with our benchmark universities,”, “SciVal makes our strategic planning more effective. We can analyze future research trends and university world rankings to create a research agenda and make strategic decisions about how we collaborate with other universities.”

“SciVal provides solid, quantifiable evidence of the university's research reputation — exactly what NCKU needs to gain funding and attract the best researchers.”



Find out more:



Contact me:

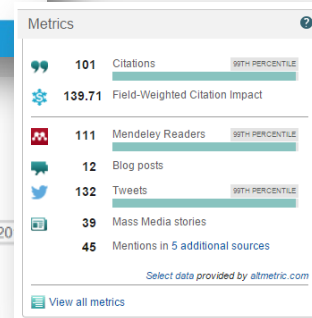
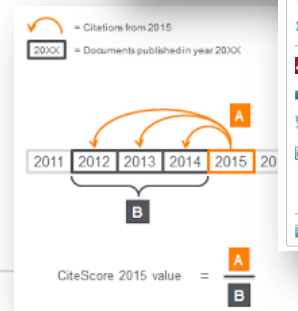
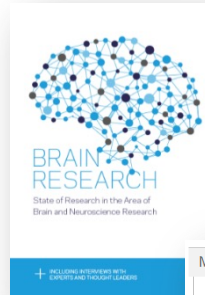
a.degtev@elsevier.com

+36 704 294 41 66

Elsevier and research metrics

Our Metrics approach:

- ❑ Need to use different metrics, common sense and expert judgement
 - Decisions should be based on both quantitative and qualitative input
 - Should always use at least two metrics (more than one way to 'excellence')
- ❑ The methodologies should be open, transparent, valid and replicable
- ❑ Definitions should be owned by the community
 - Need trust between the parties using metrics to evaluate



Help and resources

- Support center links:
 - Learn more about the Rankings in SciVal - https://service.elsevier.com/app/answers/detail/a_id/33660/supporthub/scival/
 - THE World University Ranking Citations Score - https://service.elsevier.com/app/answers/detail/a_id/33663/supporthub/scival/
 - THE Scholarly Output - https://service.elsevier.com/app/answers/detail/a_id/33661/supporthub/scival/
 - THE International Collaboration - https://service.elsevier.com/app/answers/detail/a_id/33662/supporthub/scival/
- University Rankings – A closer look for research leaders: <https://www.elsevier.com/research-intelligence/university-rankings-guide>
- THE World University Rankings: <https://www.timeshighereducation.com/world-university-rankings>
- Quick guide to 7 major university rankings and their methodologies: <https://elsevier-sfm.highspot.com/items/5fc9a3f0a4dfa011b2035861?lfrm=srp.2>