SciVal introduction and use-cases

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**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

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<th>Metrics in SciVal</th>
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<td>• Awards Volume</td>
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<td>B. Outputs</td>
<td>Productivity of research outputs</td>
<td>• Scholarly Output</td>
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<td>• Number, Type and Growth</td>
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<td>C. Research Impact</td>
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<td>• Citations Count</td>
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<td>Knowledge transfer</td>
<td>• Academic-Corporate Collaboration</td>
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<td>• Citing-Patents Count</td>
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<td>• Patent-Cited Count</td>
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<td>D. Engagement</td>
<td>Academic network</td>
<td>• Collaboration</td>
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<td>• Collaboration Impact</td>
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<td>Non-academic network</td>
<td>• Academic-Corporate Collaboration</td>
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<td>• Academic-Corporate Collaboration Impact</td>
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<td>Expertise transfer</td>
<td>• Academic-Corporate Collaboration</td>
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<td>• Citing-Patents Count</td>
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<td>E. Societal Impact</td>
<td>Societal Impact</td>
<td>• Academic-Corporate Collaboration</td>
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<td>• Mass Media</td>
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<td>• Media Exposure</td>
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<tr>
<td></td>
<td></td>
<td>• Field-Weighted Mass Media</td>
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</table>
Elsevier has aligned with two ‘Manifestatements’

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

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:

- 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.
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

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

**Visualize research performance**
Ready-made-at a glance snapshots of any entity of interest

**Benchmark your progress**
Flexibility to create and compare any research group or entity of interest

**Develop collaborative partnerships**
Identify and analyze existing and potential collaboration opportunities

**Analyze research trends**
Analyze research trends to discover the top performers and rising stars

**Create insightful reports**
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
Research Strategy

Develop and execute your research strategy with insightful analyses

“How can we demonstrate excellence in a way that shows our unique strengths to secure funding and attract the necessary research expertise?”

“How can the analyses help us understand and benchmark our position in University Rankings to inform our plans and manage our reputation?”

“How can the analyses inform our strategic research planning and setting of our institution’s objectives?”

“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?”
• 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

<table>
<thead>
<tr>
<th>Evaluate</th>
<th>1. Situation analysis</th>
<th>• Evaluate current research strategy, vision, goals and performance to assess whether changes are required</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2. Assess the external environment</td>
<td>• Government research agenda (national assessment, priority areas etc), national and regional higher education profile (size, competitors, funding mechanisms etc), human capital (competitiveness of profession, mobility, academic promotion)</td>
</tr>
<tr>
<td>Plan</td>
<td>3. Assess internal environment</td>
<td>• Analyze universities research resources, capabilities, researchers, infrastructure, funding, research support mechanisms and policies, university management</td>
</tr>
<tr>
<td></td>
<td>4. Formulate strategies</td>
<td>• Corporate (university-wide identification of scholarship types and areas of research focus and strength), competitive (university, faculty, department and research group level to ensure competitiveness in prioritized areas), and functional (operational across organization to support implementation of competitive strategies).</td>
</tr>
<tr>
<td>Implement &amp; monitor</td>
<td>5. Implement strategies</td>
<td>• Organizational structure changes, HR policies, research management structure, establish critical mass of researchers in priority areas.</td>
</tr>
<tr>
<td></td>
<td>6. Monitor and evaluate</td>
<td>• How effective have the strategies been? Is the University achieving its goals? Do we need to change or adapt strategies?</td>
</tr>
</tbody>
</table>

Adapted from: [http://dx.doi.org/10.1080/03075079.2017.1313218](http://dx.doi.org/10.1080/03075079.2017.1313218)
Focus on Strategic Research Planning

How can SciVal help?

| Evaluate | 1. Situation analysis | • Enrich analysis of **current goals** and **performance** with **robust indicators**, **metrics** and **analyses** produced with rich, curated and **authoritative research information**. |
| Evaluate | 2. Assess the external environment | • Evaluate **performance and strength** and **national priority areas**, **benchmark to competitors**<br>• Assess **performance** relevant to **national assessments** |
| Evaluate | 3. Assess internal environment | • Evaluate and **benchmark** the performance of your **university**, **faculties**, **departments**, **research groups** and individual **researchers** with trusted indicators, **metrics** and **analyses**<br>• Evaluate **research strengths**, areas of **niche expertise** and **key researchers** as well as potential **gaps** |
| Plan | 4. Formulate strategies | • Enhance **identification** of areas of **research strength** and where **critical mass** exists in **priority areas** with **targeted analysis** and benchmarking based on trusted metrics and indicators.<br>• Identify **niche expertise** in **priority fields** to support expansion of capabilities through analysis of research performance within **specific research fields** globally |
| Plan | 5. Implement strategies | • Analyze **global research in priority areas** to help, for example, with **targeted recruitment** to establish a critical mass of researchers with the **required expertise**. |
| Plan | 6. Monitor and evaluate | • Enhance the **monitoring**, **evaluation** and **benchmarking** of research **performance and progress** with metrics, indicators and analyses produced with rich, curated and **authoritative research information**. |

Adapted from: [http://dx.doi.org/10.1080/03075079.2017.1313218](http://dx.doi.org/10.1080/03075079.2017.1313218)
# 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.

<table>
<thead>
<tr>
<th>Role</th>
<th>Support</th>
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<tbody>
<tr>
<td><strong>Vice President for Research</strong></td>
<td>• Evaluate research activities to inform strategic research planning</td>
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<tr>
<td></td>
<td>• Consume and interpret signals to help take strategic partnership decisions</td>
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<tr>
<td></td>
<td>• Analyze research performance summaries of any research entities unique research strengths and multidisciplinary research areas</td>
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<tr>
<td></td>
<td>• Identify areas of strength and niche expertise to focus support</td>
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<tr>
<td></td>
<td>• Understand University Rankings to inform planning decisions</td>
</tr>
<tr>
<td><strong>Research Services</strong></td>
<td>• Create management-level reports to inform research strategy and planning</td>
</tr>
<tr>
<td></td>
<td>• Identify signals to support strategic partnership decisions</td>
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<tr>
<td></td>
<td>• Create research performance summaries of any research entities unique research strengths and multidisciplinary research areas</td>
</tr>
<tr>
<td></td>
<td>• Analyze and understand University Rankings to inform planning decisions</td>
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<tr>
<td><strong>Deans / Heads of Department</strong></td>
<td>• Evaluate research activities and performance to inform strategic research planning for my faculty or department</td>
</tr>
<tr>
<td></td>
<td>• Consume and interpret signals and performance summaries to help take strategic partnership decisions for the faculty or department</td>
</tr>
<tr>
<td></td>
<td>• Identify our areas of strength and niche expertise to focus support</td>
</tr>
<tr>
<td><strong>Faculty and Researchers</strong></td>
<td>• Understand global research aligned directly and indirectly with my research expertise to inform my research strategy and advance my career</td>
</tr>
<tr>
<td></td>
<td>• Consume and interpret signals to help me take strategic partnership and collaboration decisions</td>
</tr>
</tbody>
</table>
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)
Benchmark with peers and analyze ranking trends:
Analyses and information to understand performance and inform plans
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.

<table>
<thead>
<tr>
<th>Role</th>
<th>Responsibilities</th>
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</table>
| 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

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

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

“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?”
Identify and build the ideal team

- 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?**

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<tr>
<th>Evaluate</th>
<th>1. Situation analysis</th>
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<tbody>
<tr>
<td></td>
<td>• Enrich evaluation of <strong>current research strategy, vision, goals and performance</strong> with <strong>external funding landscape</strong> data and analyses across priority research fields.</td>
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</table>

<table>
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<tr>
<th>Evaluate</th>
<th>2. Assess the external environment</th>
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<tbody>
<tr>
<td></td>
<td>• Evaluate <strong>external funding profiles</strong> in fields of strength, related fields and national priority areas</td>
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<td></td>
<td>• Where are our competitors active and have funding?</td>
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<tr>
<th>Evaluate</th>
<th>3. Assess internal environment</th>
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<tbody>
<tr>
<td></td>
<td>• Enhance evaluation and benchmarking of your university, faculties, departments, research groups and individual researchers. Are they active in well-funded fields?</td>
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<td></td>
<td>• What are the funding levels in areas of strengths, related fields and areas of niche expertise?</td>
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<td></td>
<td>• Who are the key researchers in our institution?</td>
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<tr>
<th>Plan</th>
<th>4. Formulate strategies</th>
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<tr>
<td></td>
<td>• Utilize <strong>external funding data and insights</strong> around areas of strength and where critical mass exists to ensure you are spending research time in growing and well-funded areas</td>
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<td></td>
<td>• Identify possible <strong>pivots in research focus</strong> to related areas that are growing and well-funded to maximize funding potential</td>
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<th>Plan</th>
<th>5. Implement strategies</th>
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<td></td>
<td>• Support <strong>research groups</strong> with funding data and insights across fields to ensure they continue to focus <strong>research time</strong> in <strong>growing and well-funded fields</strong> and adapt focus where necessary</td>
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<th>Plan</th>
<th>6. Monitor and evaluate</th>
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<tbody>
<tr>
<td></td>
<td>• Enhance the <strong>monitoring, evaluation and benchmarking</strong> of research strategies with funding landscape data and insights to maximize funding potential and help your research programs thrive</td>
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Adapted from: [http://dx.doi.org/10.1080/03075079.2017.1313218](http://dx.doi.org/10.1080/03075079.2017.1313218)
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?
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?
SciVal Grants
Funding landscape intelligence to support strategic planning and execution of research strategies

NSF slows down the investments in this research field

Funding Bodies

Grants dashboard

Awarded funding - Oregon State University

Funded Institutions
Impact & Engagement

Demonstrate and showcase your impact and engagement

“What is the impact of our corporate collaborations?”

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

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

“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?”

“Are we considering the full breadth of the research impact of faculty candidates for appointments and promotions?”
Use impact metrics to identify policy mentions and build narratives to demonstrate your research impact.
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
Benchmark your impact and policy influence against peers

1. Choose entities of interest

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

- **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

- **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

- **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

- **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.
- 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.
- 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.
Topic Prominence And Trends Analysis in Science
Mapping and evaluating global research through citation links
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

* [https://www.sciencedirect.com/science/article/pii/S1751157717302110](https://www.sciencedirect.com/science/article/pii/S1751157717302110) - 'Funding per author increases significantly with topic prominence, thus prominence is an indicator of science demand'.
Maps of global science:

Fig. 1. Visual map of the STS model of science. Each dot represents a topic.
Prominence and funding:

- 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
T.1101540
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
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

T.1102558
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
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
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."

Full customer story: [PDF (direct link)]
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."
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."

Full customer story: PDF (direct link)
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.”

Full customer story: PDF (direct link)
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.”

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Full customer story: [Case study (direct link)](#) | [Video (direct link)](#) | [Case study / video (landing page)](#)
Find out more:

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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