SciVal: How to measure your research performance in the data world?

8th July 2020

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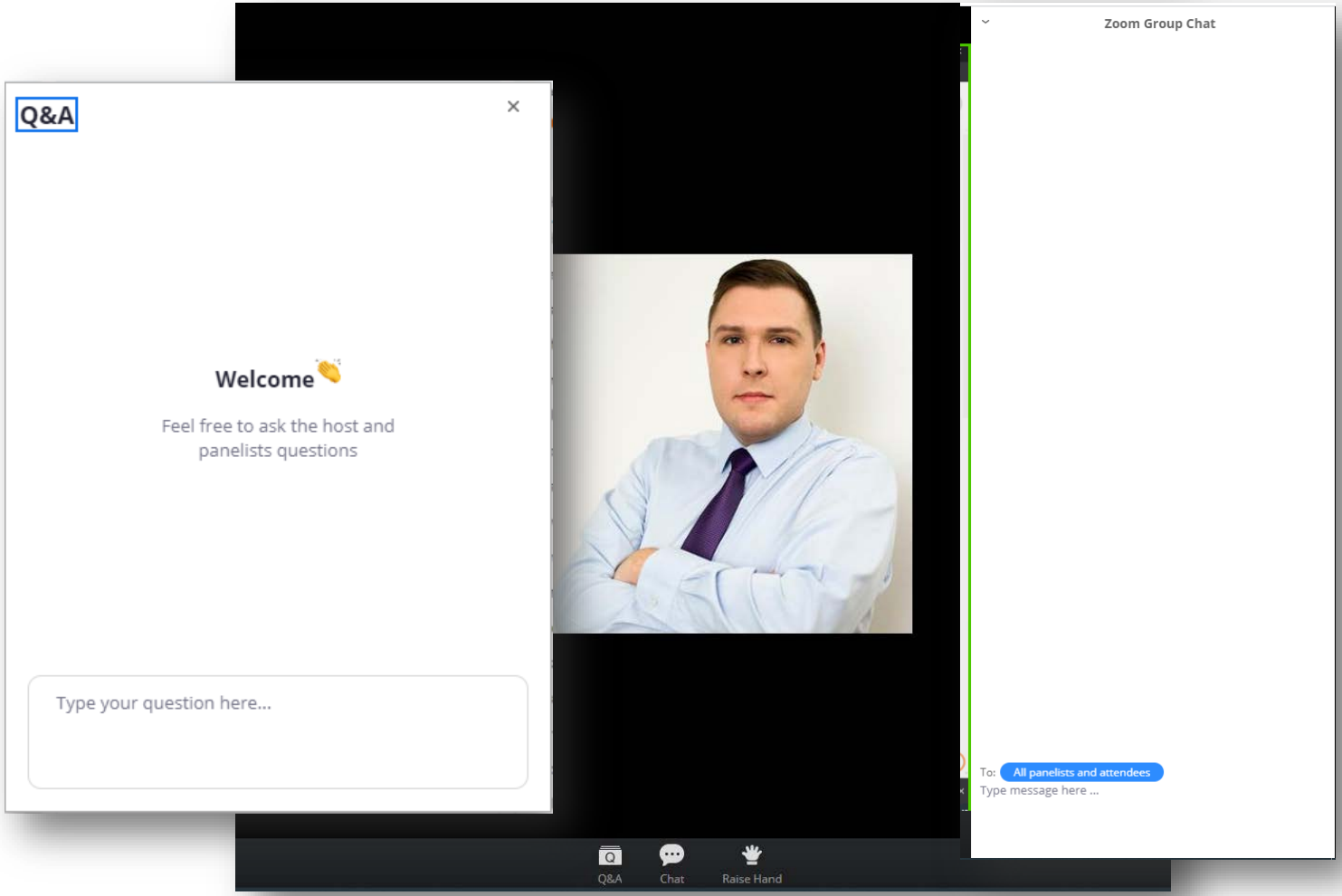
Q&A Chat Raise Hand


Q&A
Welcome
Feel free to ask the host and panelists questions
Type your question here...
Q&A
Chat
Raise Hand
Zoom Group Chat
To: All panelists and attendees
Type message here ...

SciVal’s key differentiators

1. Unparalleled power and flexibility with an intuitive interface

2. Based on the largest, curated databases in the world, Scopus®

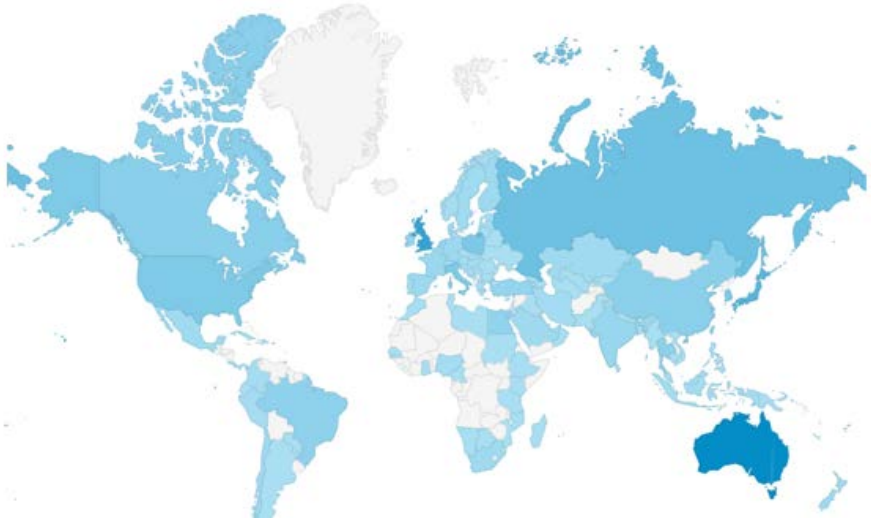
3. Access to the research performance of thousands of global research institutions and their associated researchers

4. Access to an array of simple and more sophisticated metrics allowing the creation of uniquely tailored analyses and analytical reports

5. Analysis and scenario modeling for any researcher or group in the world, based on full publication history (thanks to our Scopus Author Profiles!)

SciVal today

- Global **market leader** with more than **1,300 customers,** across **80 countries.** Predominantly academic institutions.
- Very strong presence in **Australia, UK, Japan, China and Poland**
- **Corporate customers** include: Siemens, Boeing
- Several **funding organizations** and **national government bodies**



1. Australia
2. United Kingdom
3. Japan
4. Poland
5. Italy
6. Russia
7. United States
8. South Korea
9. Brazil
10. Taiwan

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SciVal in a nutshell

SciVal provides access to the research performance of over 18,000 research institutions and their associated researchers from more than 230 nations worldwide

Visualize research performance

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

Benchmark your progress

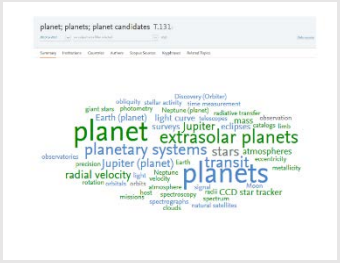
Flexibility to create and compare any research groups

Develop collaborative partnerships

Identify and analyze existing and potential collaboration opportunities

Analyze research trends

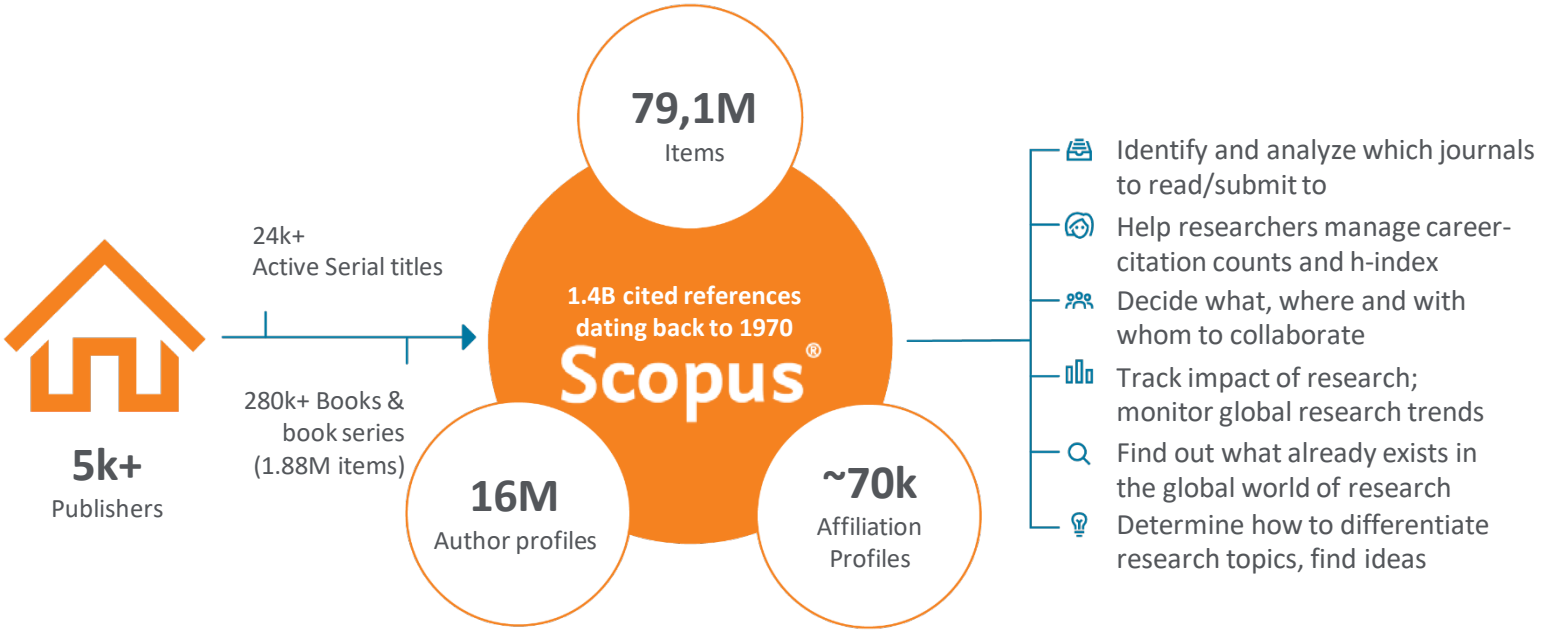
Analyze research trends to discover the top performers and rising stars



Which Data Sources Feed Into SciVal?

Scopus: the main data source for SciVal

Scopus is one of the largest curated abstract and citation databases of peer-reviewed literature, and features smart tools that allow you to track, analyze and visualize scholarly research.

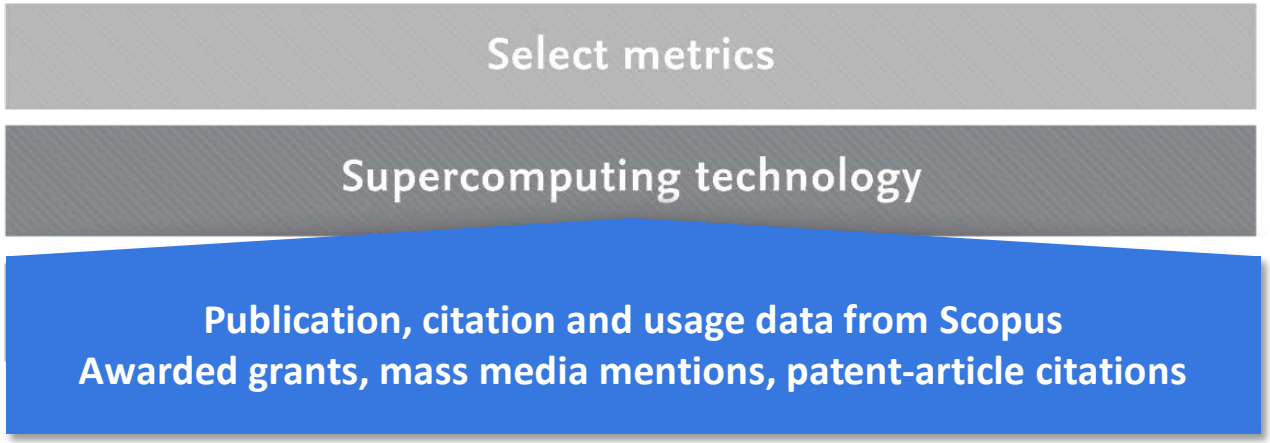


The layers of SciVal

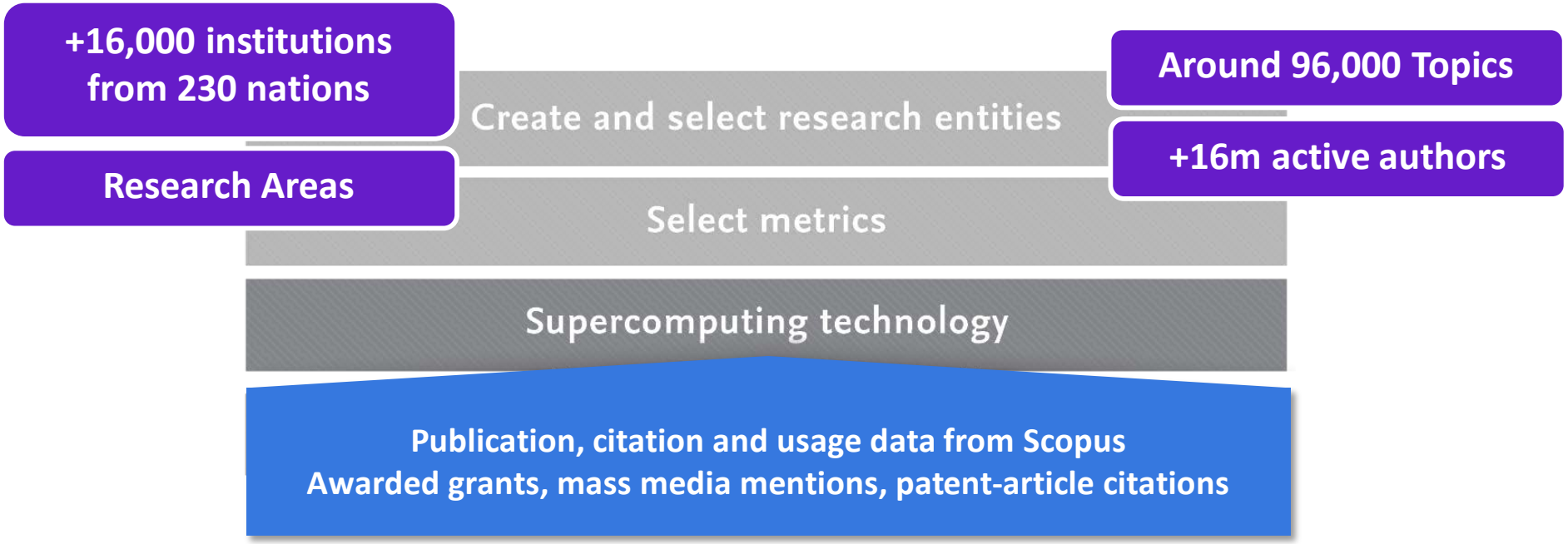
Publication, citation and usage data from Scopus
Awarded grants, mass media mentions, patent-article citations

The layers of SciVal

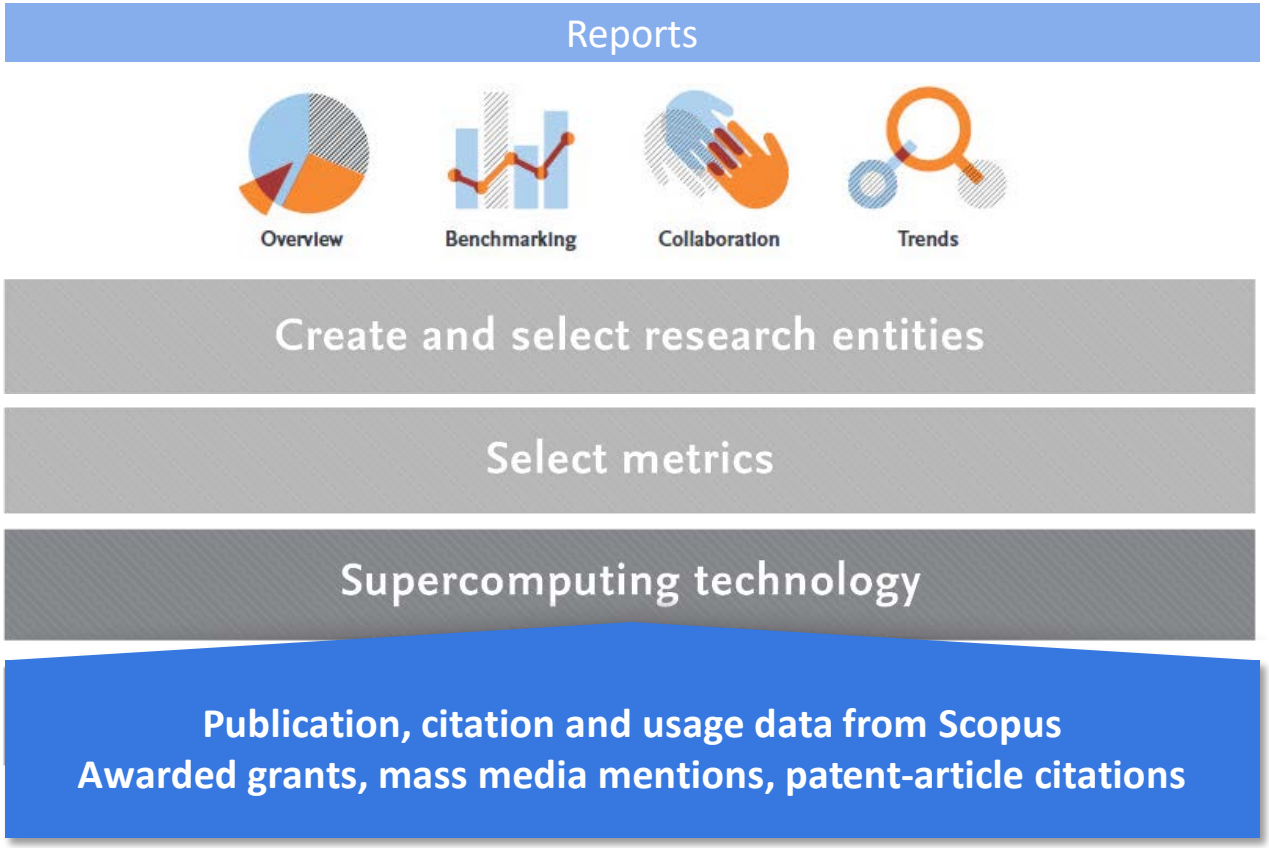
The layers of SciVal



The layers of SciVal



The layers of SciVal



What are users trying to achieve?

1. **Visualize** and **benchmark** the quality and impact of their research activities
2. **Identify** and analyse new research Topics & trends
3. **Develop**, execute and **evaluate** strategies with reliable evidence
4. **Demonstrate** achievements to funding bodies and governments in a global context
5. **Recruit and retain** talented researchers
6. Identify **top performers and rising stars** in any research topic of interest
7. Evaluate **existing and identify potential collaboration partners** in both academia & industry

Benefits for a broad range of users

SciVal supports the needs of a broad range of institutional users by providing ready-made, at-a-glance snapshots for flexible, institution-specific insight

Vice-Rector for Research

- Comprehensive Performance Overview to inform strategic planning
- Identify institution's strengths and short-comings

Research Office

- Create management-level reports
- Accelerate institutional and cross-institutional collaboration
- Support and win large grants

Heads of Department

- Evaluate researcher and team performance for partnership planning, recruitment and retention decisions
- Scenario modelling through creating virtual teams

Faculty and Researchers

- Raise visibility and highlight expertise and achievements
- Expand networks
- Locate and evaluate potential collaborators and mentors

Some questions addressed using SciVal

"How can we demonstrate excellence in a way that best shows our **unique strengths** to secure funding and attract the best talent?"

"I want to explore the various scenarios I'm considering to set up a **centre of excellence**. How can the data provide me with insights?"

"My VR is going to India; who do our academics collaborate with there and how can we potentially develop **greater partnerships**?"

"How can I see who's excelling in a specific subject for **potential collaboration** or partnership opportunities?"

Research Metrics in SciVal

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Two Golden Rules for using research metrics

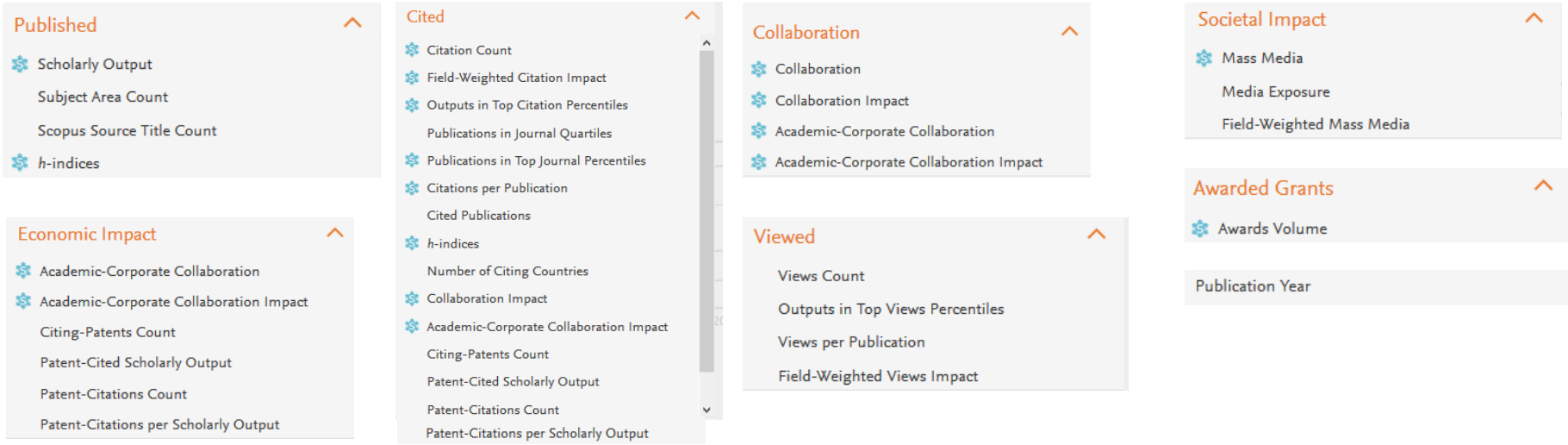
Always use both qualitative and quantitative input into your decisions

- **Benefit from the strengths of both approaches**. Don't replace one with the other
- Combining both approaches = **closer to the whole story**
- Valuable intelligence comes when these approaches **show different messages**

Always use more than one research metric as the quantitative input

- One metric's strengths can **complement** the weaknesses of others
- There are many different ways of being excellent
- **Using multiple metrics** drives desirable changes in behaviour (harder to game)

Metrics available in SciVal by metric theme



Metrics available in SciVal in other themes

F. Qualitative input

Metric theme	Metric sub-theme	Metrics in SciVal	
A. Funding	Awards	• Awards Volume	

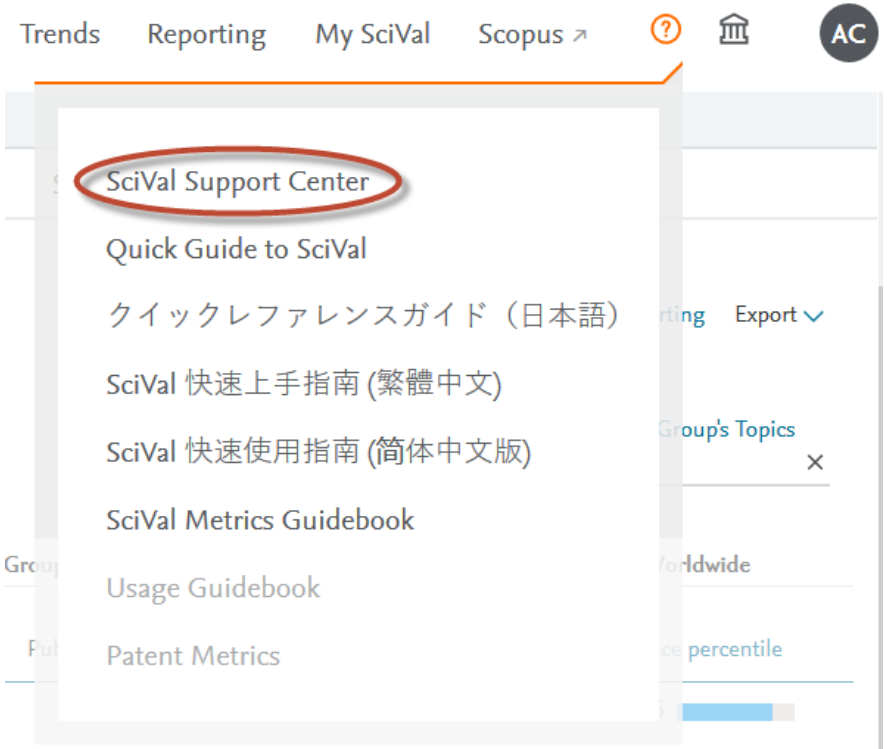
B. Outputs	Productivity of research outputs	• Scholarly Output
		  • Number, Type and Growth
		  • Subject Area Count	

	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 • *h*-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

Getting help

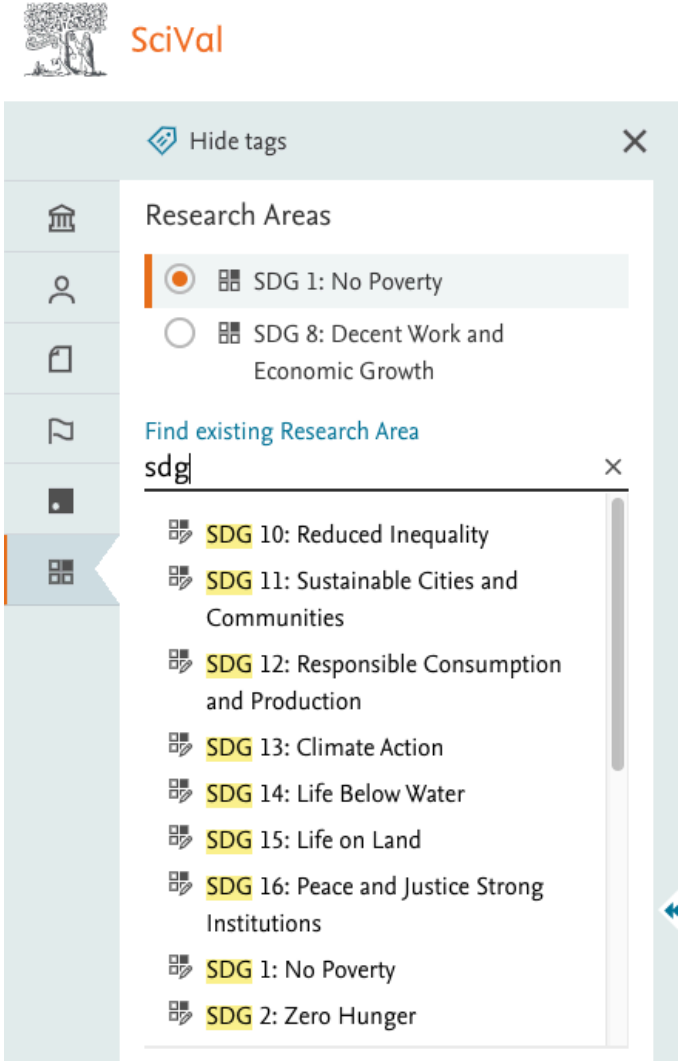
The spine menu provides links to additional help documentation

https://service.elsevier.com/app/home/supporthub/scival/



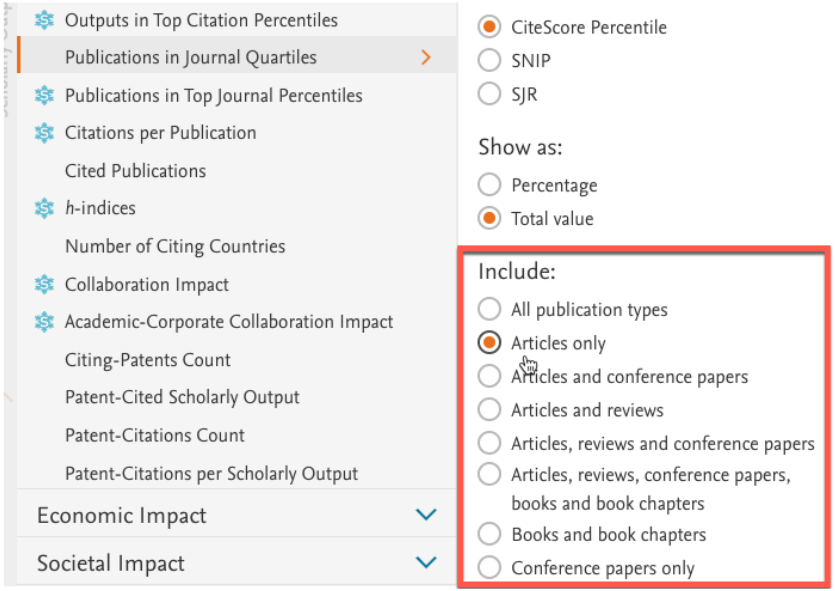
SDGs in SciVal

- They are available as predefined Research Areas:
  - Type “SDG” into “Find existing Research Areas” and choose an SDG
  - You can use the SDGs in Overview, Benchmarking and Trends



Journal Quartiles

Journal Quartiles metrics now have the publication type filter in Benchmarking
You can now filter the Publications in Journal Quartiles metric by publication type in Benchmarking. For example, use it to only include Articles in your analysis.

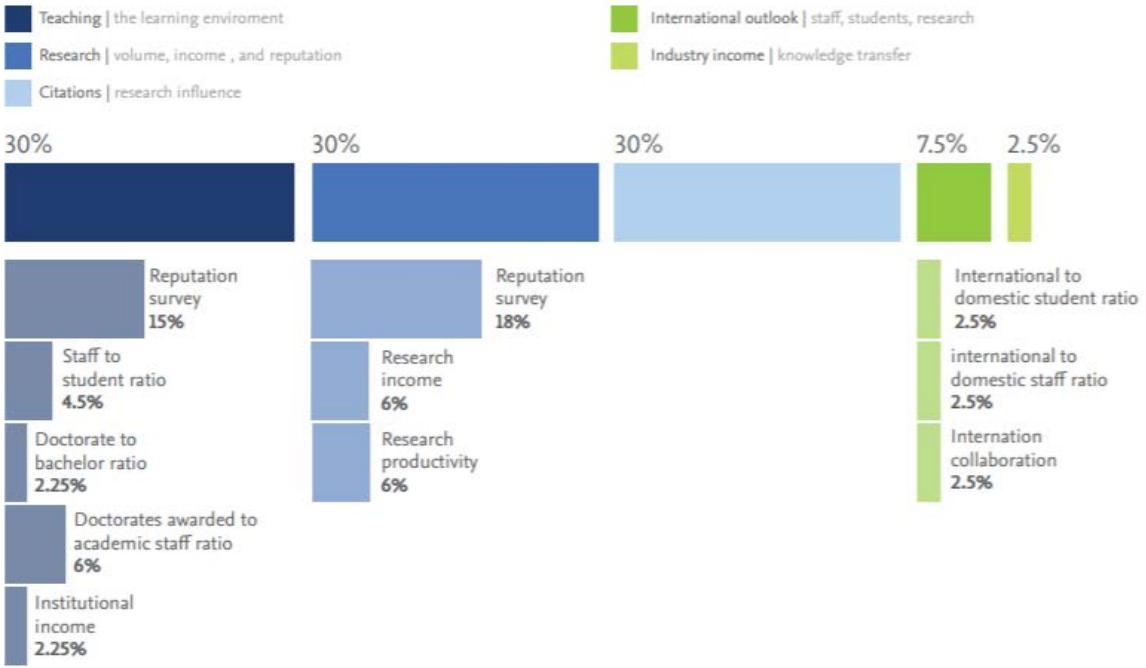


For more news's and update's

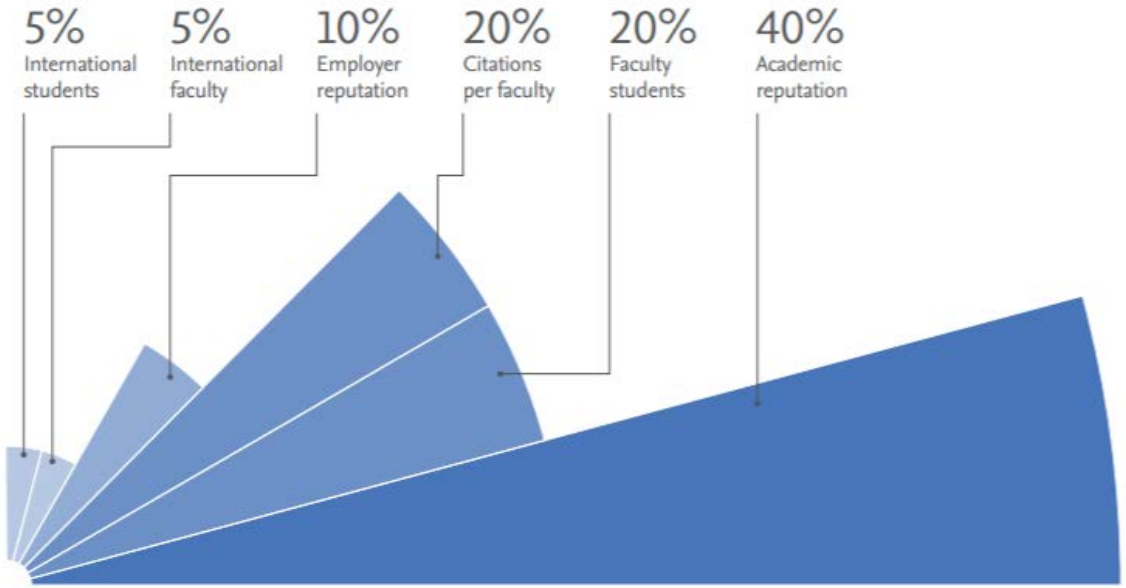
https://service.elsevier.com/app/answers/detail/a_id/27731/supporthub/scival/p/10961/

Rankings insights

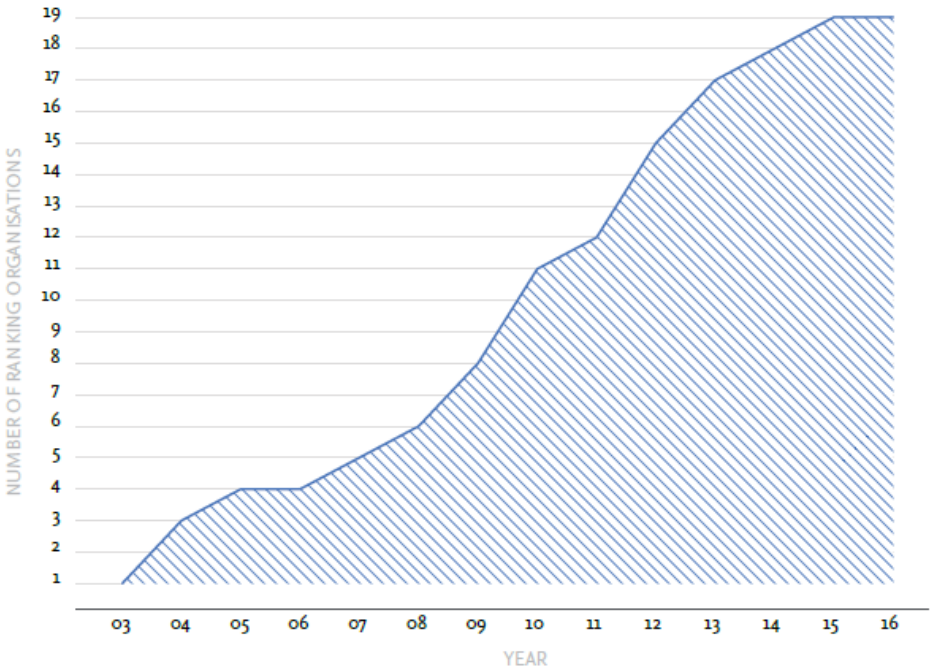
WUR Times Higher Education Methodology



WUR QS Methodology



The power of university rankings



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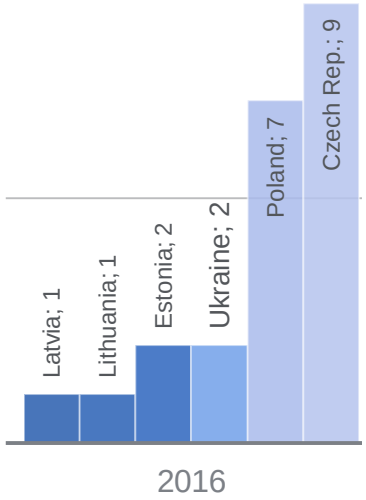
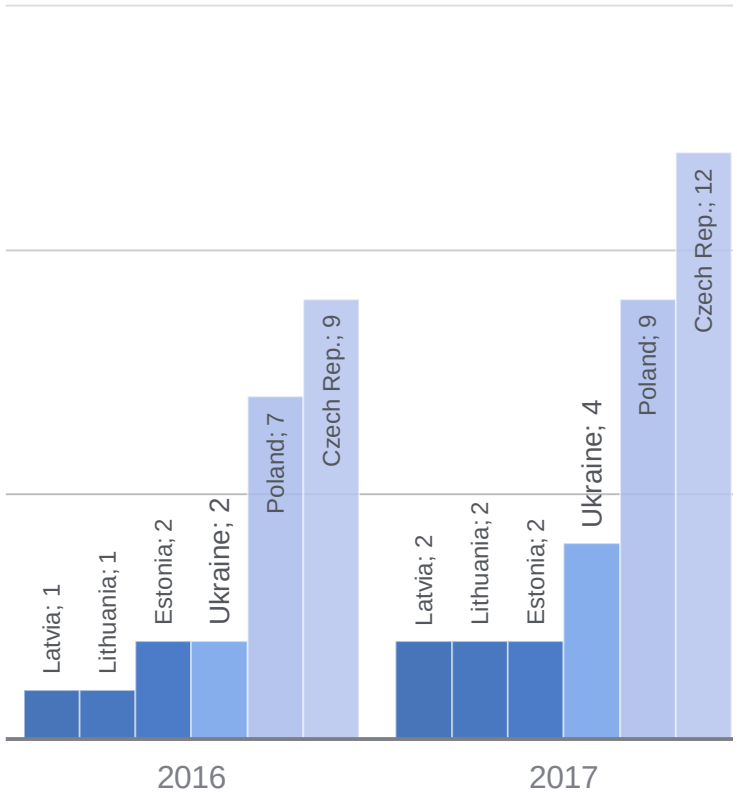
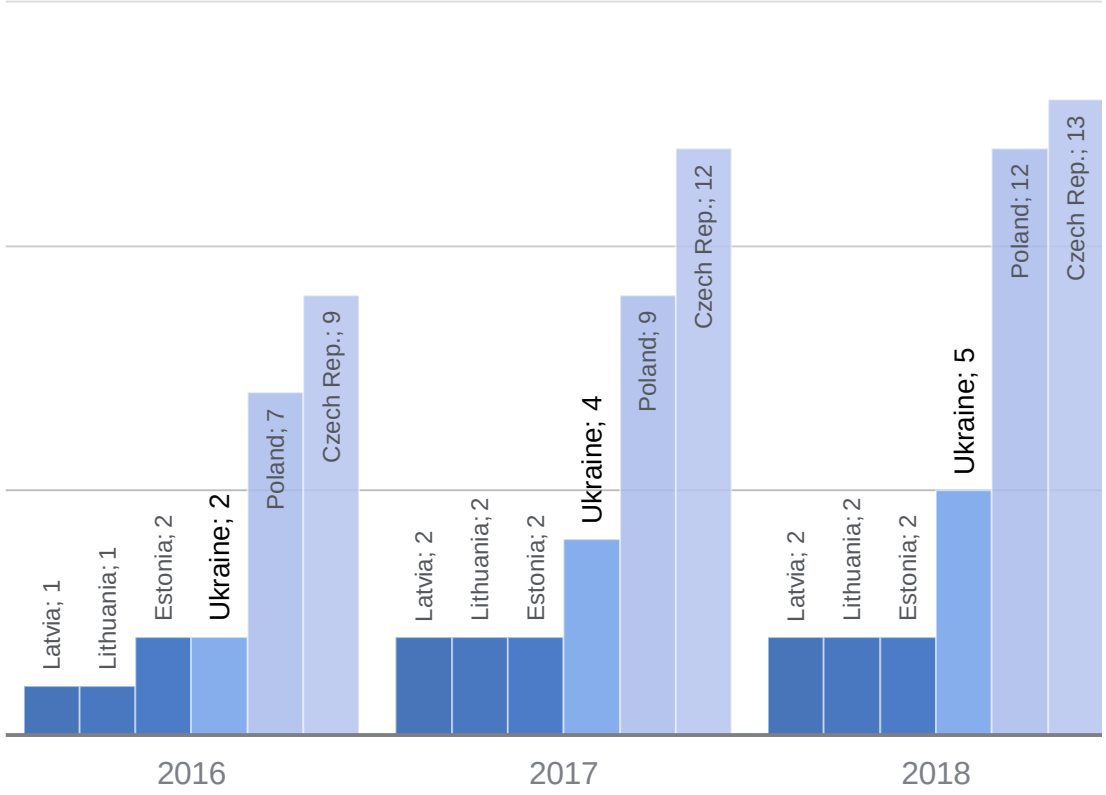
Number of universities in THE WUR 2016-20



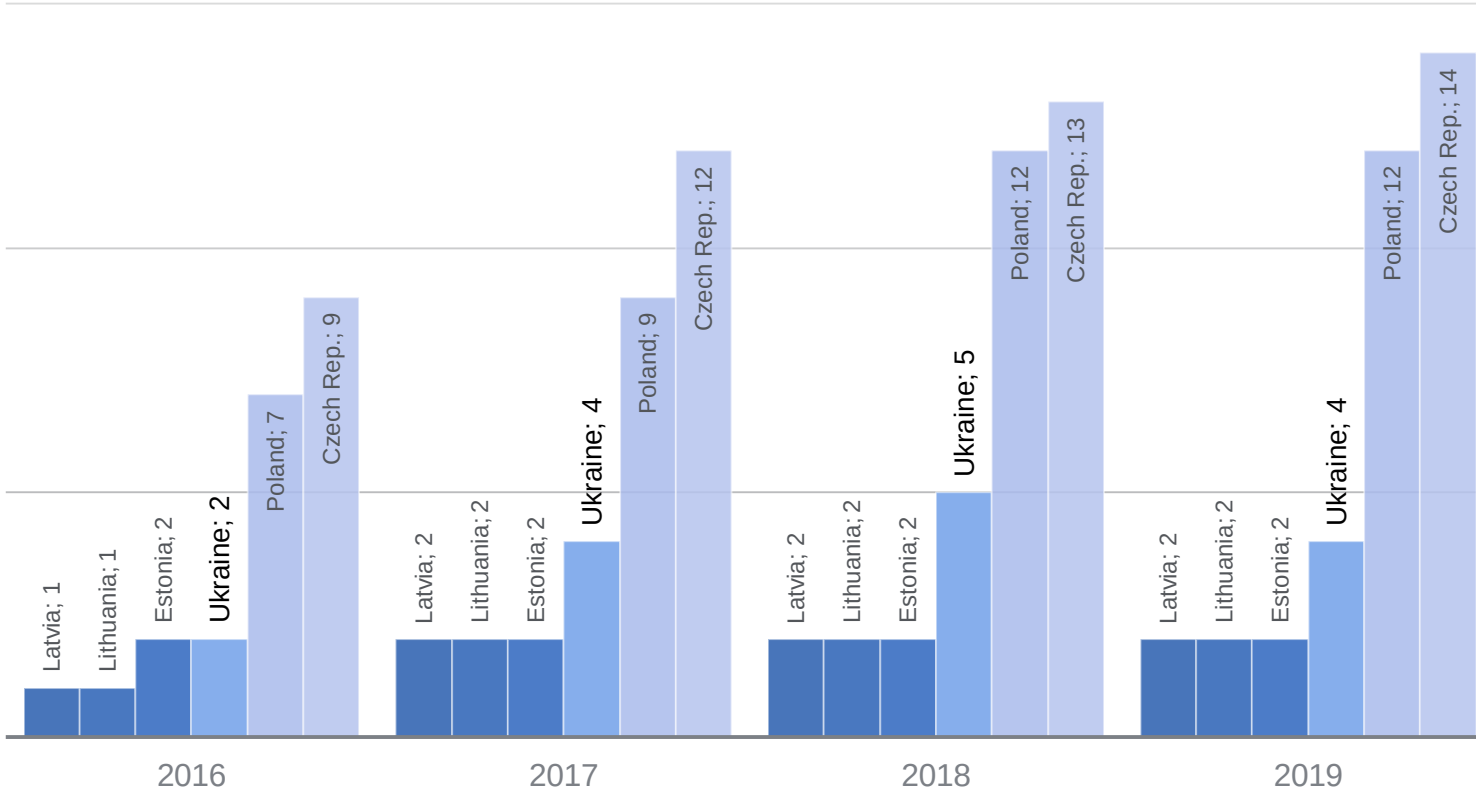
Number of universities in THE WUR 2016-20



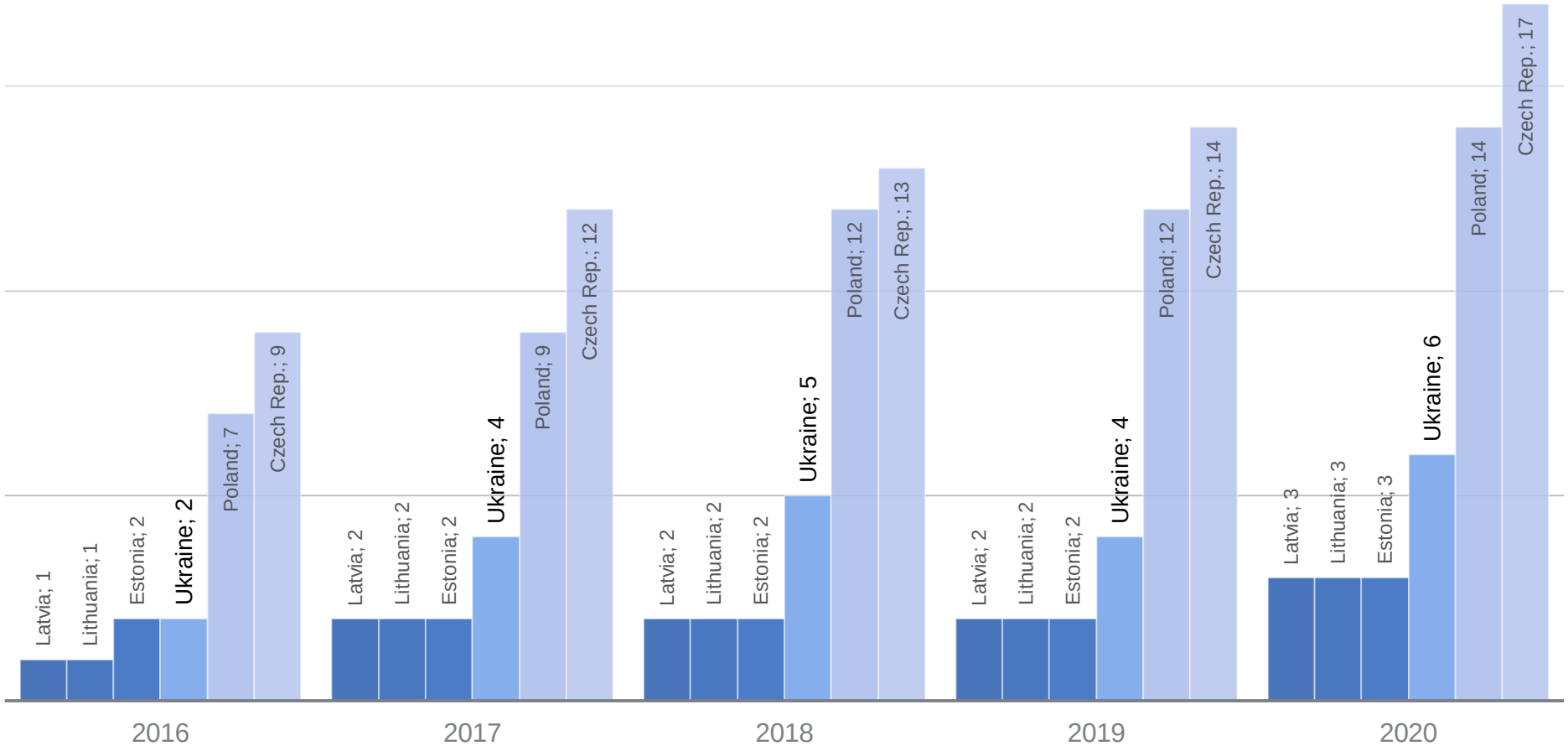
Number of universities in THE WUR 2016-20

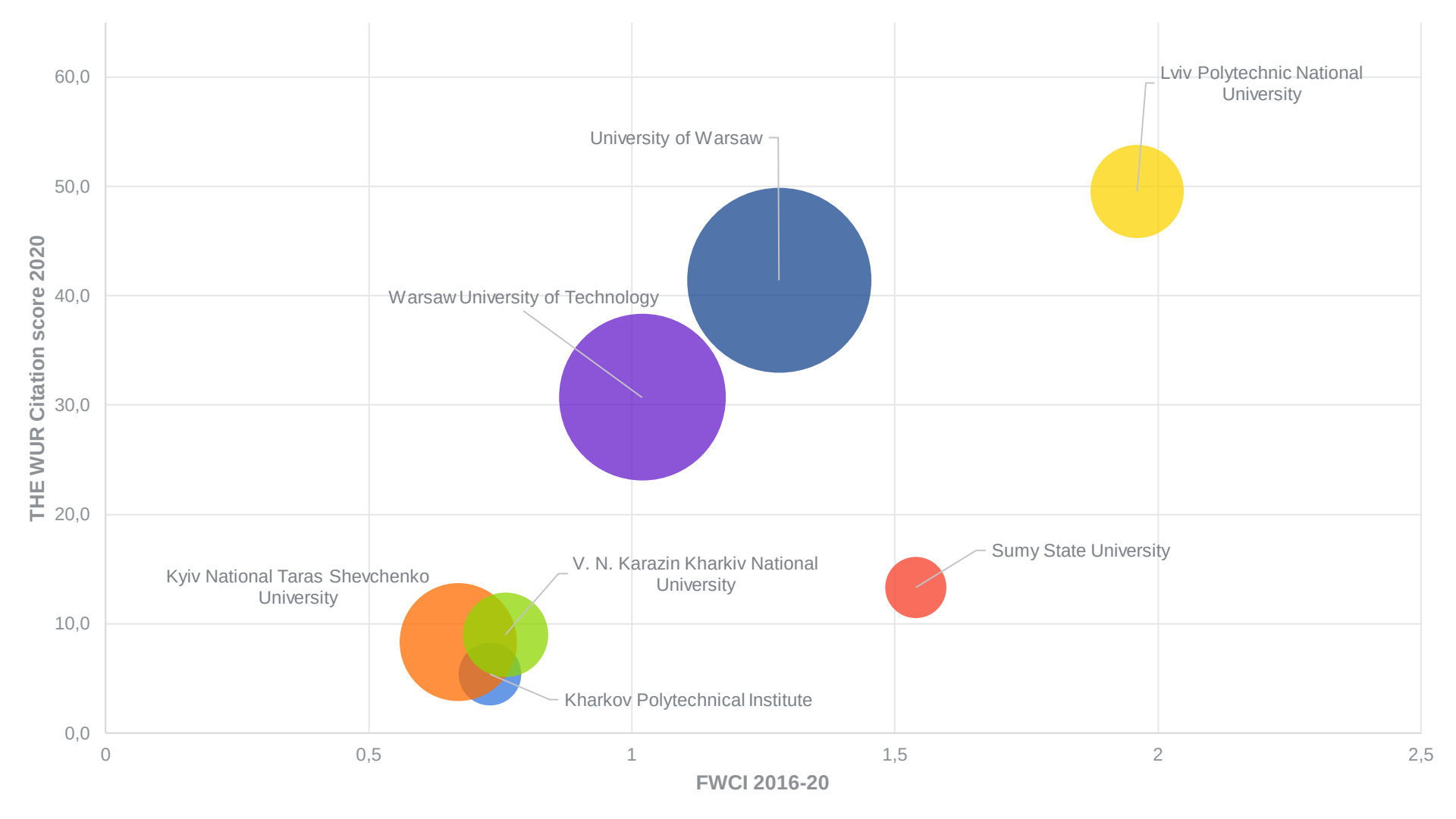


Number of universities in THE WUR 2016-20



Number of universities in THE WUR 2016-20

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