

Research Landscape: New Trends

Stellenbosch, South Africa

November, 2011

Said Taha, Sales Director Africa, Middle East, Turkey & CIS



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Johns Hopkins University Medical Library to Close and Move Completely Online

Source: The Digital Shift (Library Journal), as referenced in LJ Academic Newswire, 3 November 2011.



Today's discussion



1. Traditional Role of Librarian
2. Research Landscape is changing
3. Elsevier is Transitioning from “Content” to “Content + Solutions”
4. Role of Librarian is Evolving



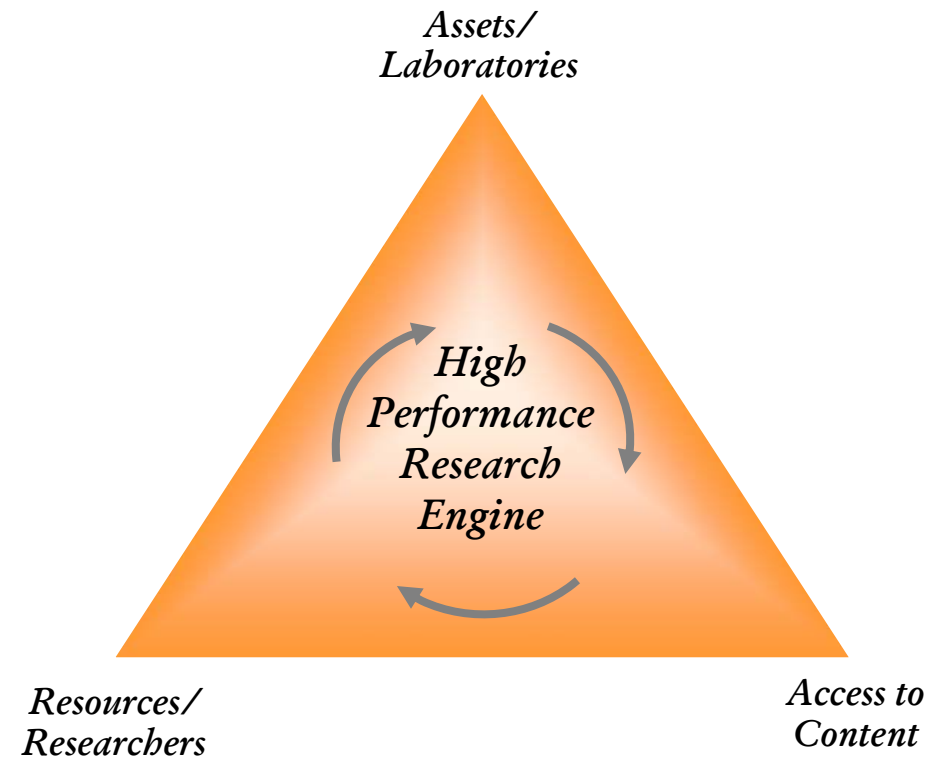
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Main Drivers for Research



Investment in access to content positively impact an institute's grant income (ROI >4x)



University investments in the library: What's the payback?

A case study at the University of Illinois at Urbana-Champaign

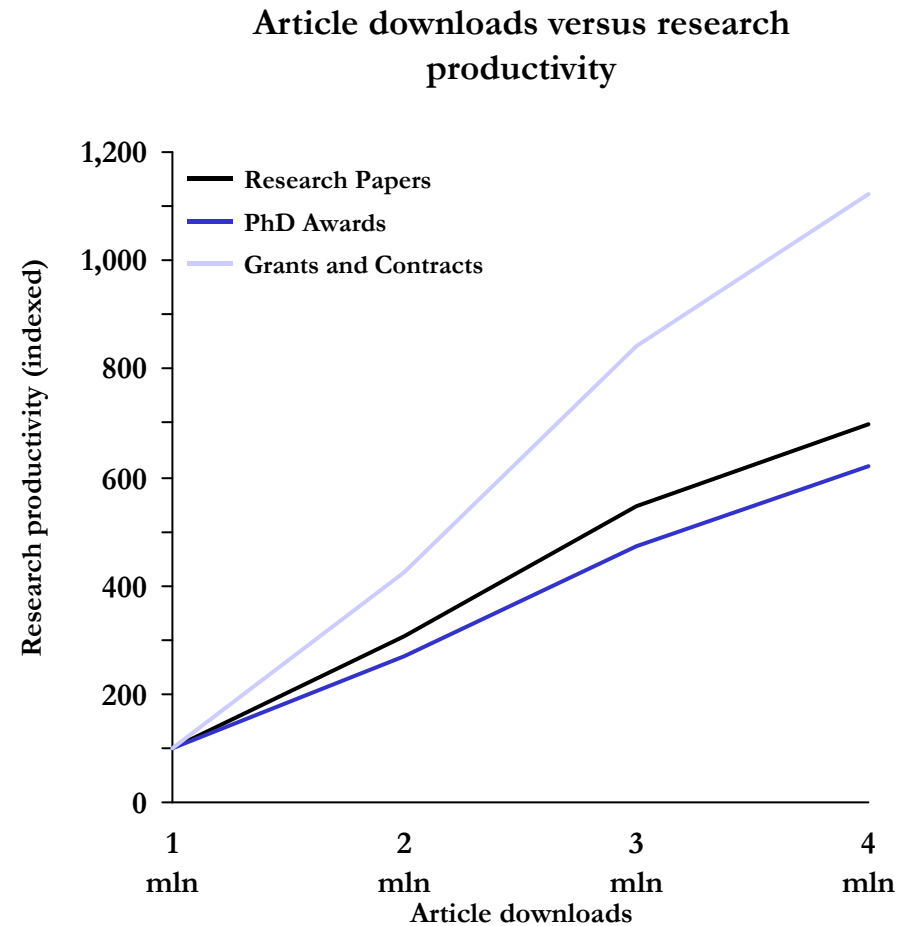


\$1.00 invested by the university in the library returned **\$4.38** in grant income (ROI Value)

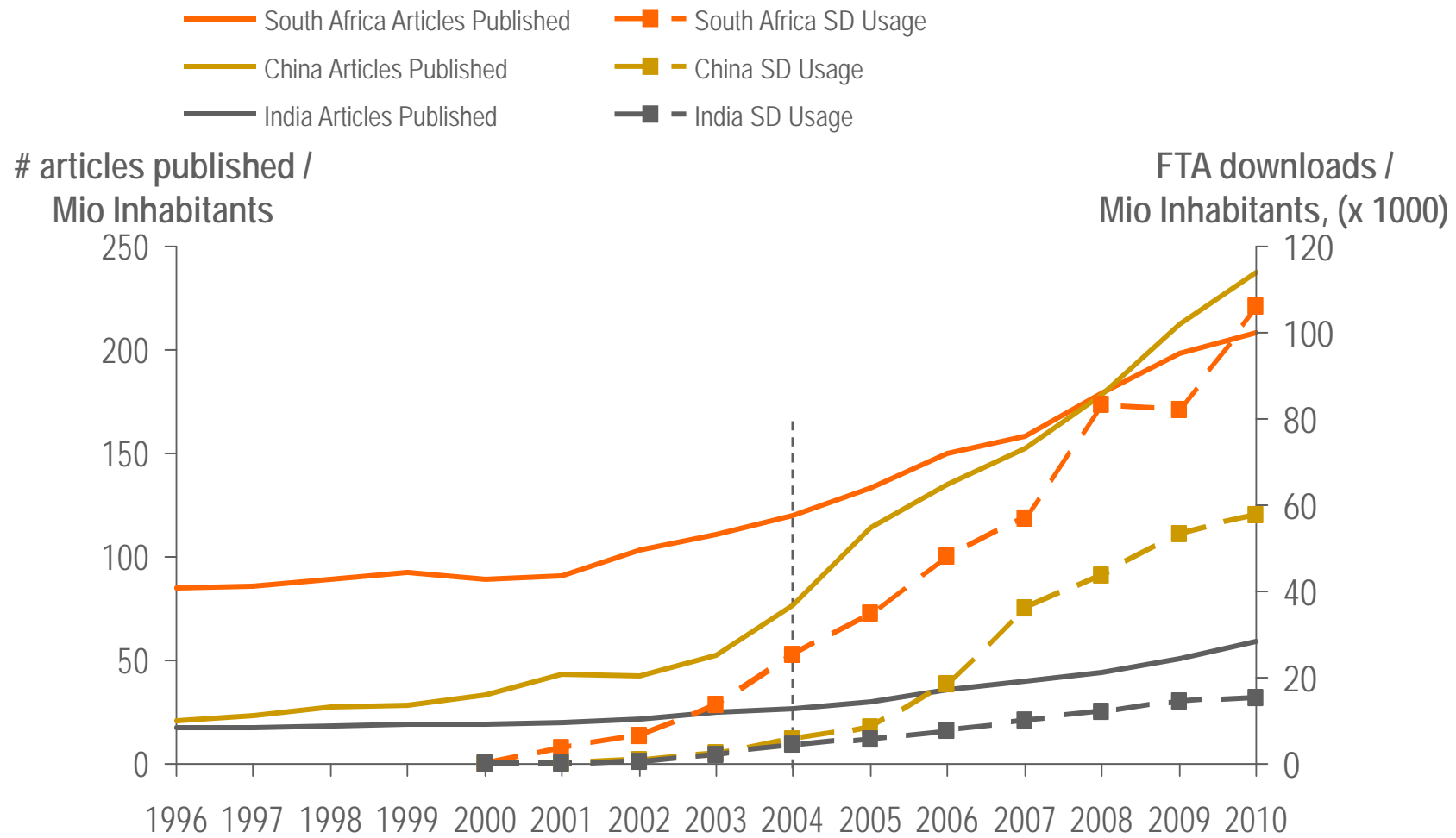
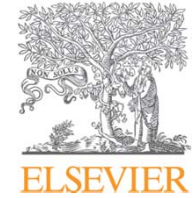
There is a strong correlation between the e-journal usage, research output and funding



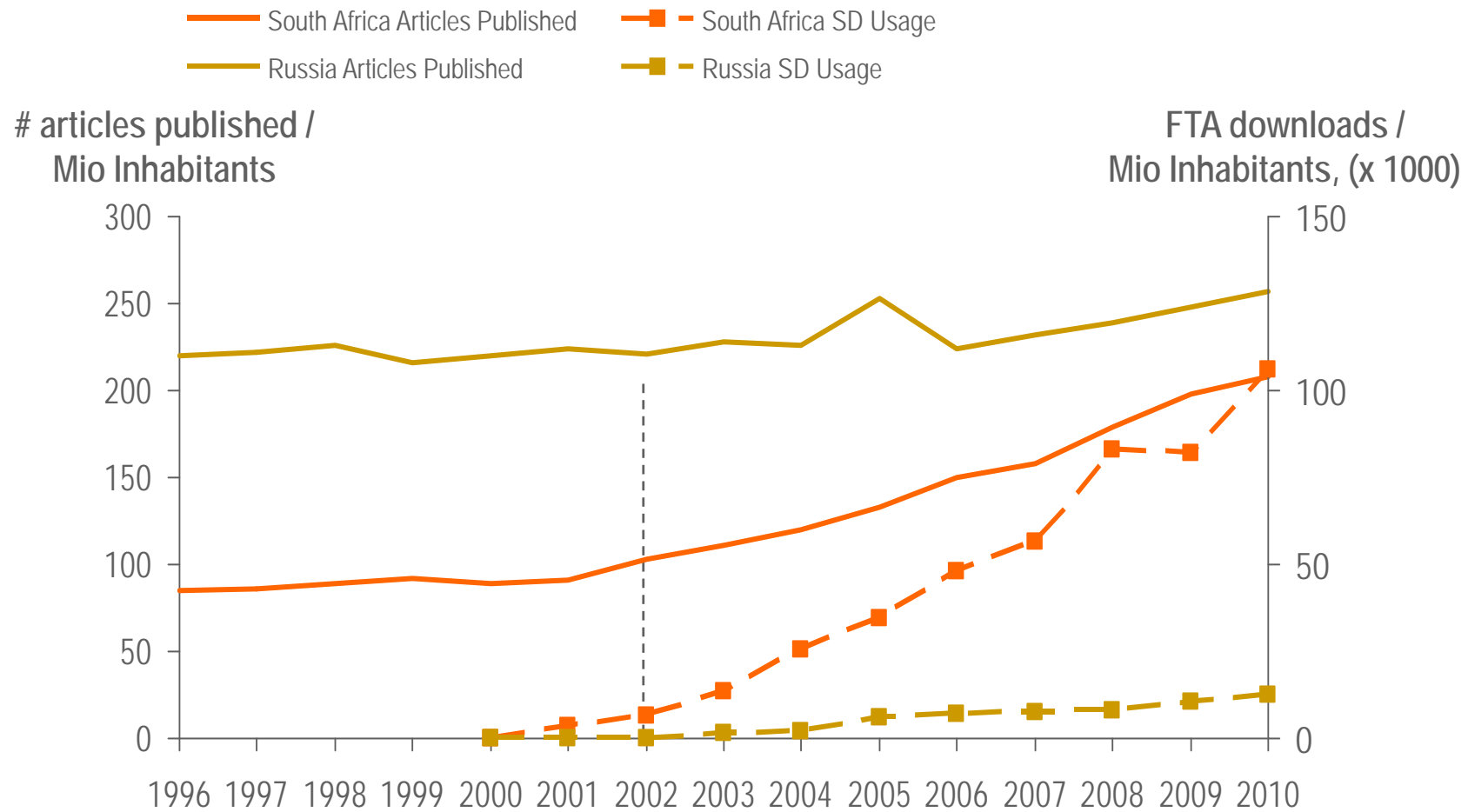
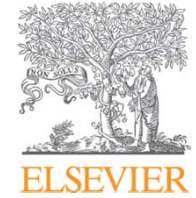
- UCL research has investigated the correlation between content usage and research output and funding
- Doubling in downloads from 1 to 2 million, is statistically associated with dramatic – but not necessarily causal – increases in research productivity
 - Papers output up 207%
 - PhD awards up 168%
 - Research grants and contract income up 324%
- This positive correlation is even stronger by multiplying the article downloads by 4



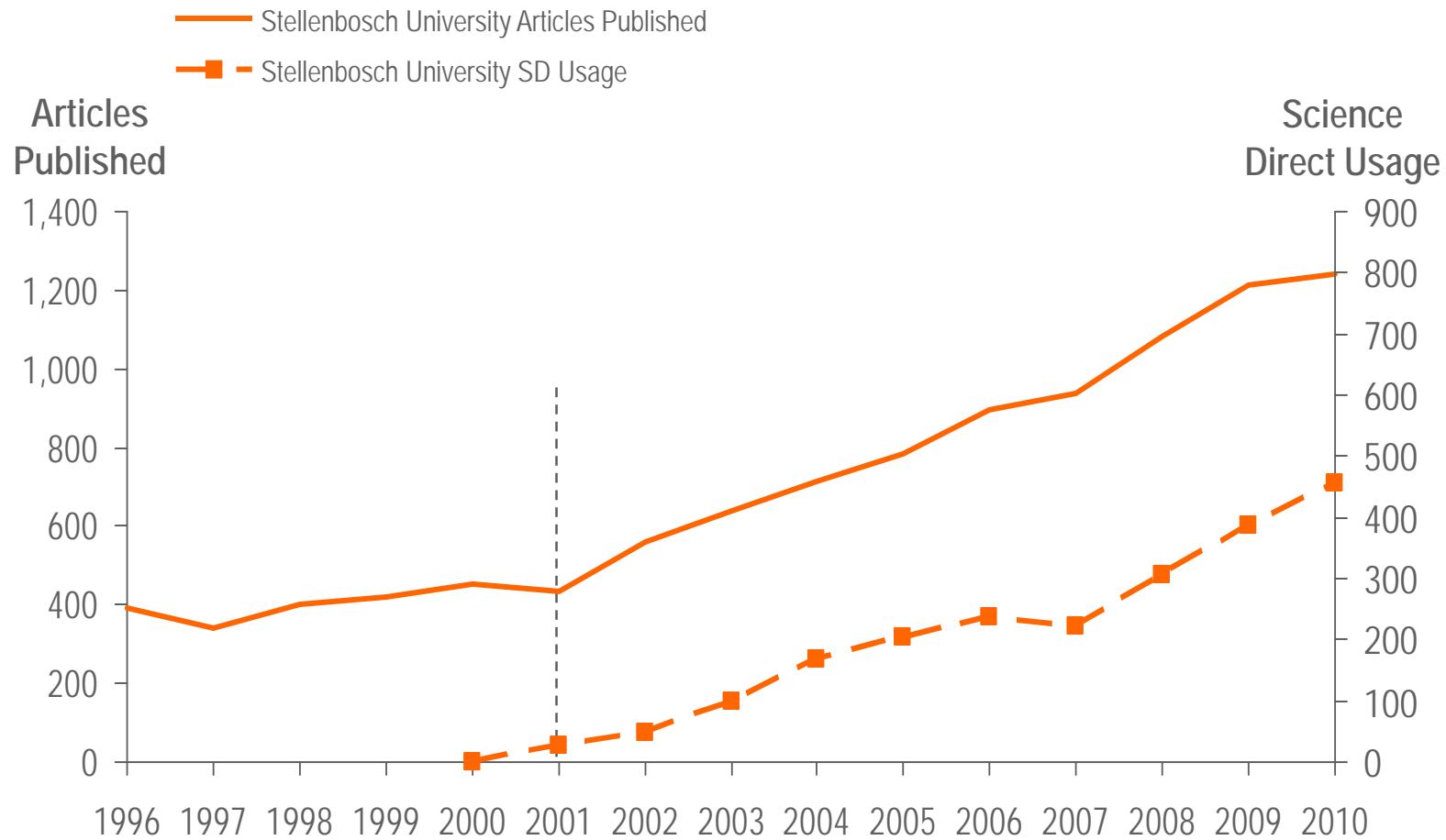
Correlation between the e-journal usage, research output



Correlation between the e-journal usage, research output



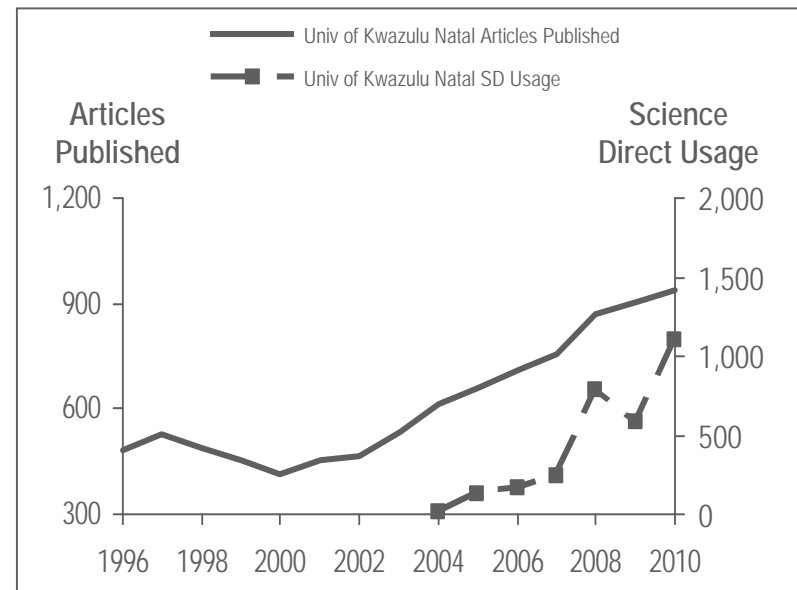
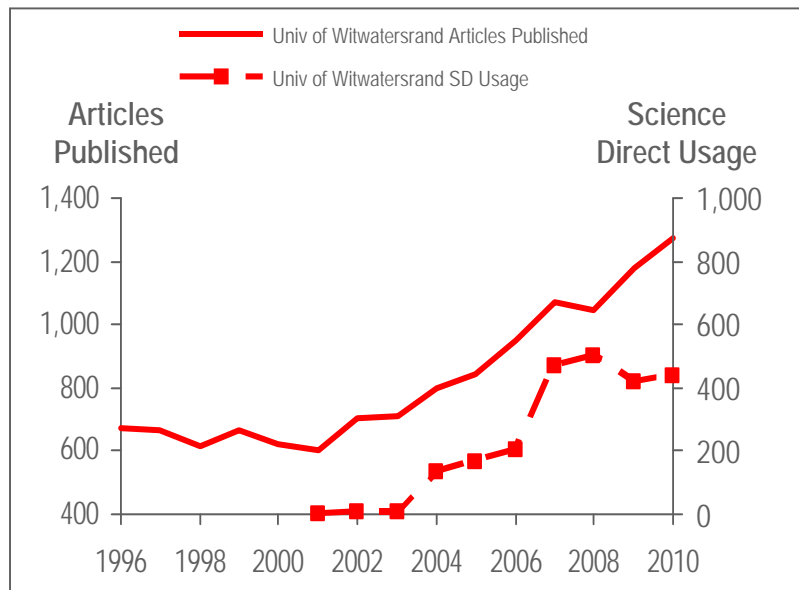
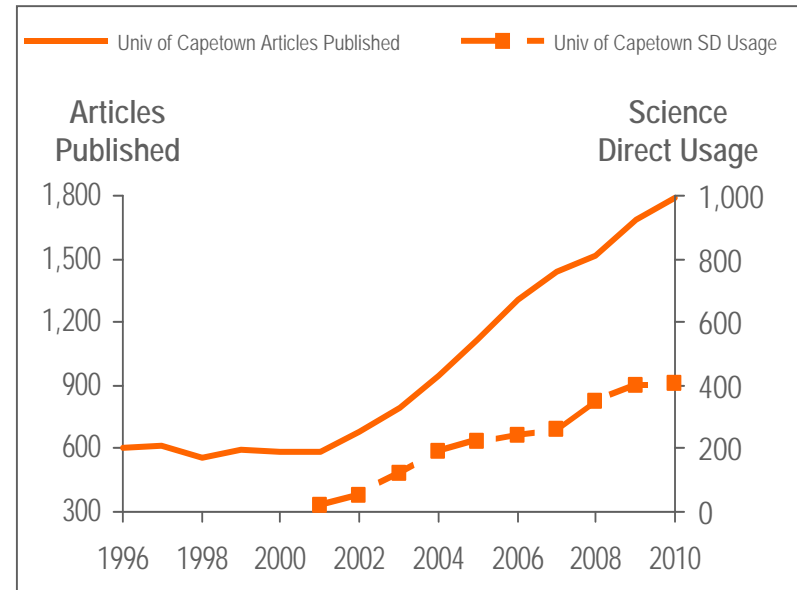
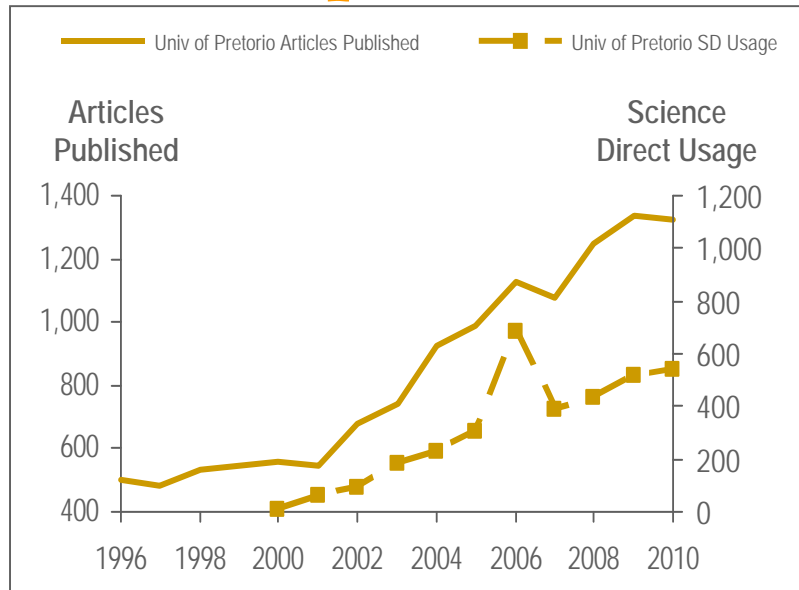
Correlation between the e-journal usage, research output



Correlation between the e-journal usage, research output



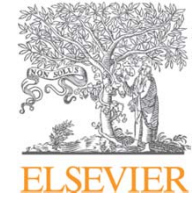
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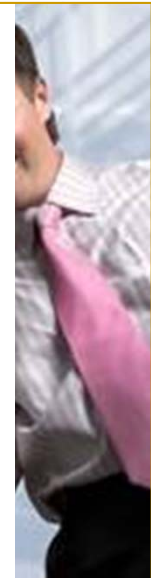
What do we hear from librarian?



More focus on results



“You need to demonstrate that you are performing very well, and need more money and support – how can you make the case?”



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Information is growing exponentially



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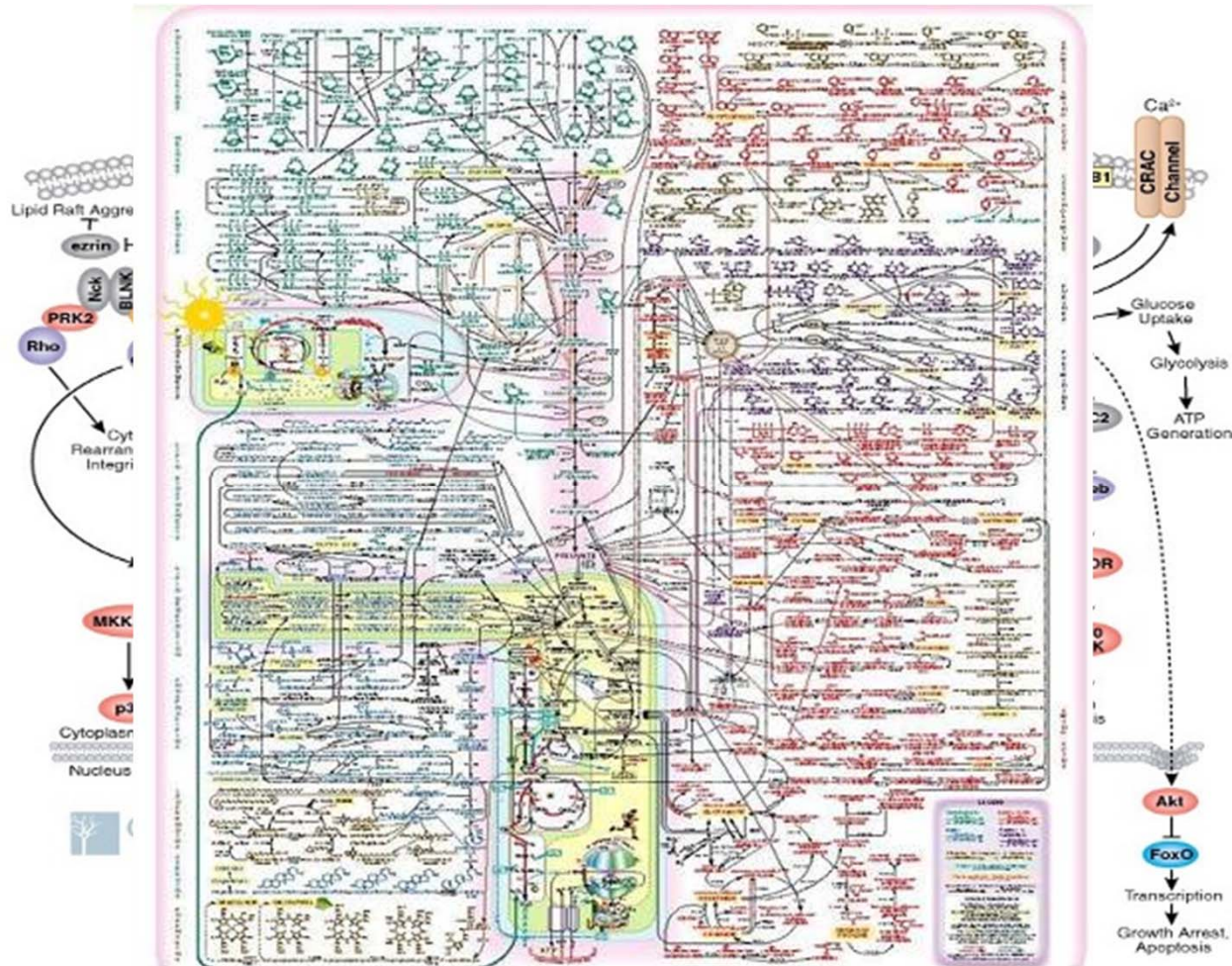
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Science became complex and interlinked



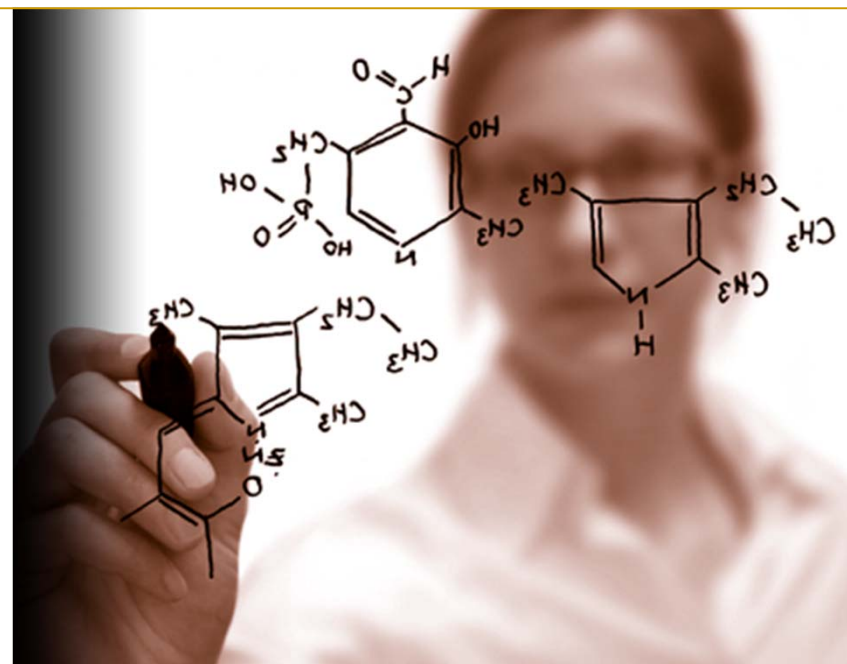
... to the very complex

Research became more inter-disciplinary



“Pinpointing new inter-disciplinary themes is like looking for a needle in a haystack. We need to take the guesswork out of it.”

– *Director, office of Research,
Australian university*

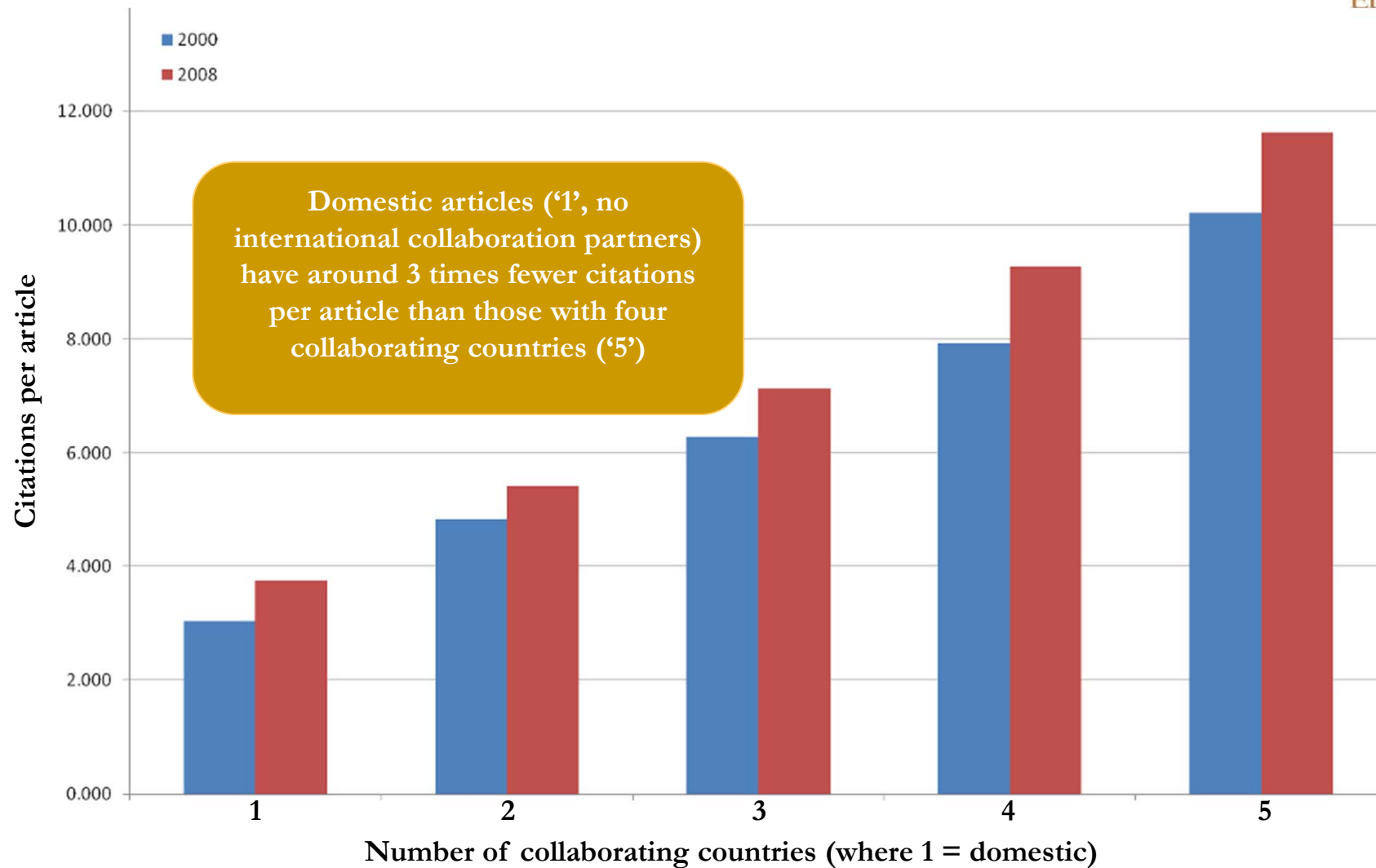


Collaboration became essential



... the individual research

International collaboration correlates strongly with publication impact



Resources are Scarcer



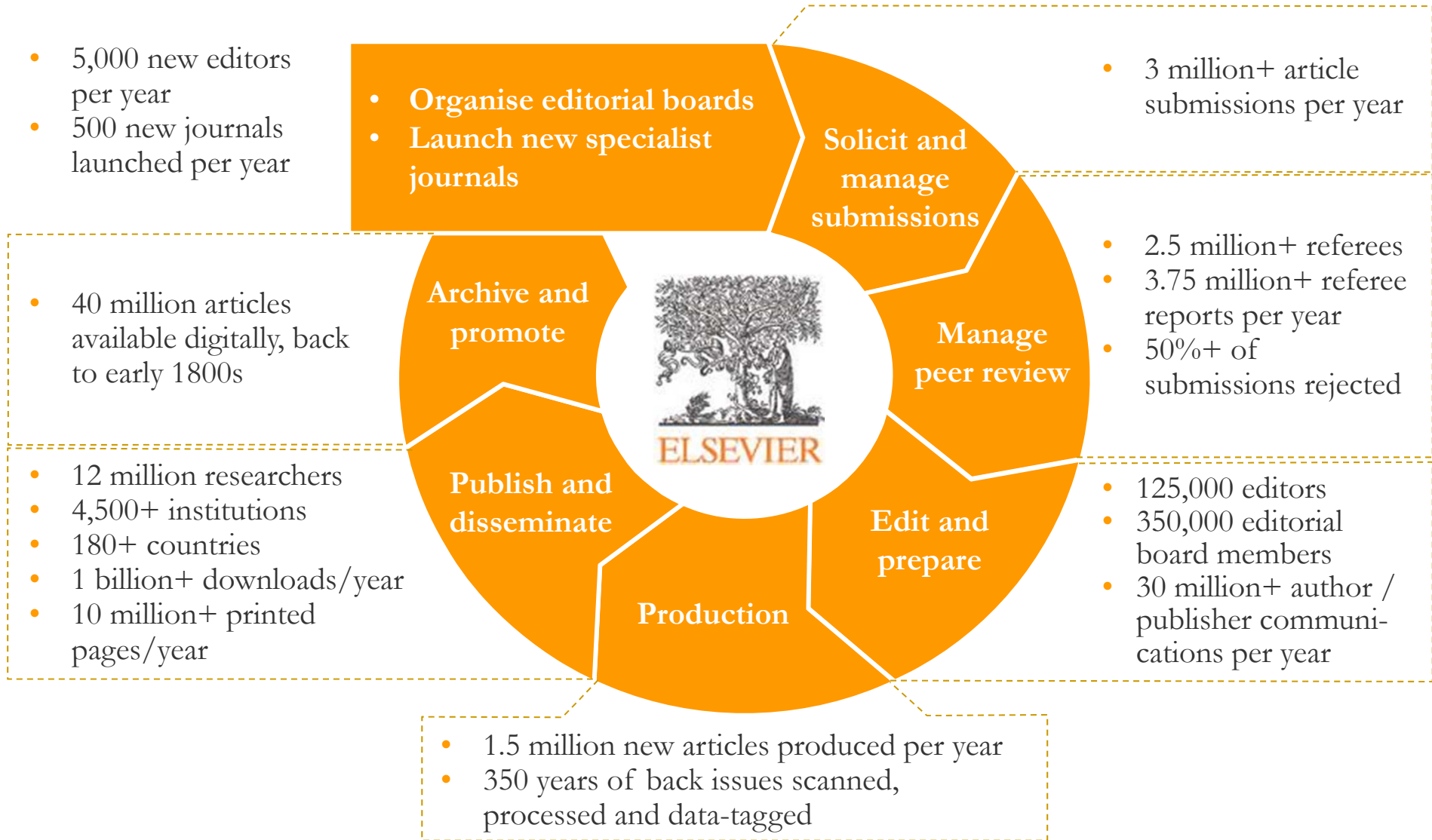
“Our planning for 2009-10 assumes that our endowment will have lost roughly 30% of its value in 2008-09”, Harvard, 2009



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Reminder – what do journal publishers do?



Note: Industry estimates based on known numbers for a subset of the industry that are then scaled to 100% based on the article share of the known subset

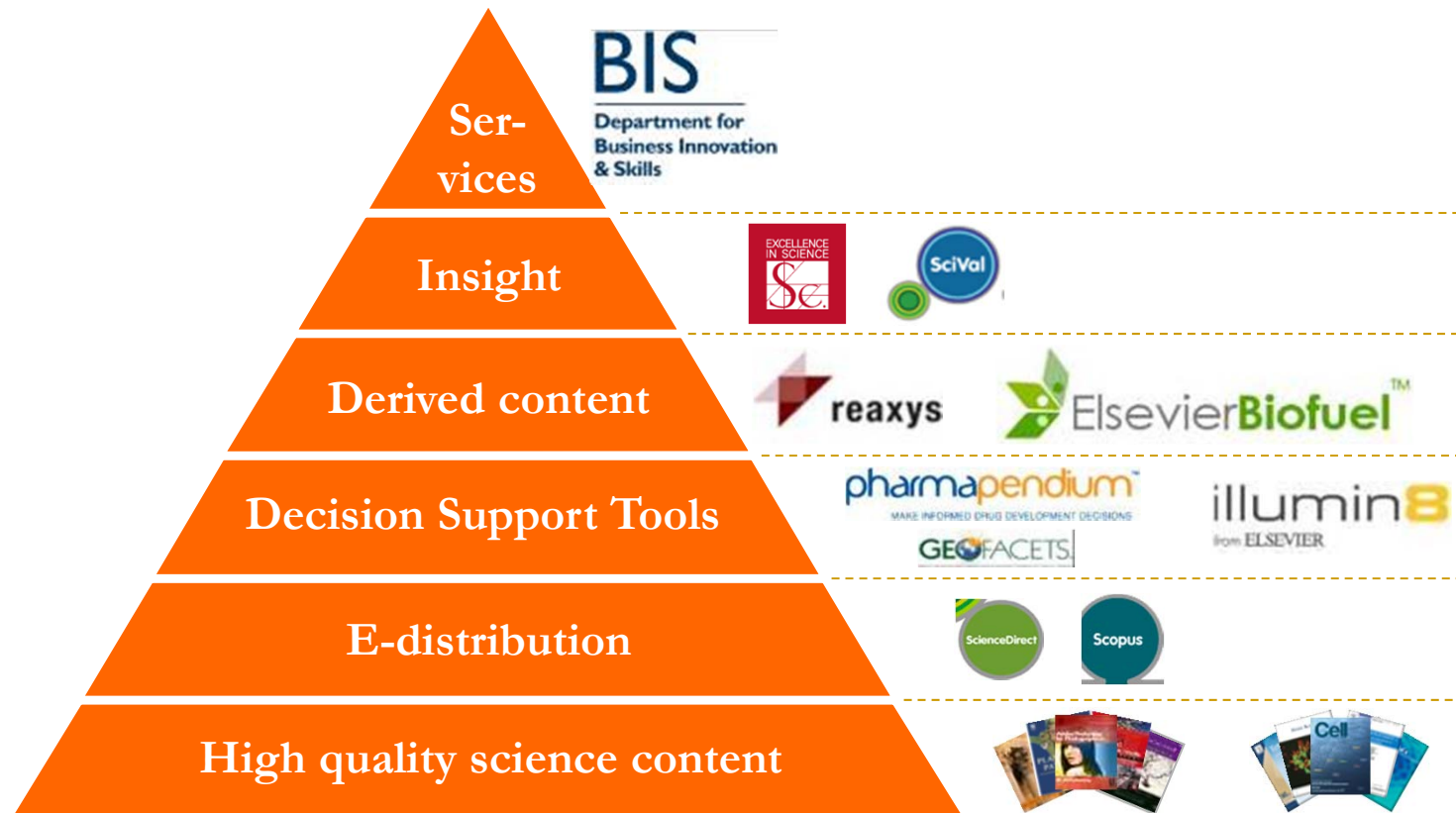
Elsevier - transitioning to content + solutions



Today:
Scientific information solutions



1665:
First peer-reviewed journal

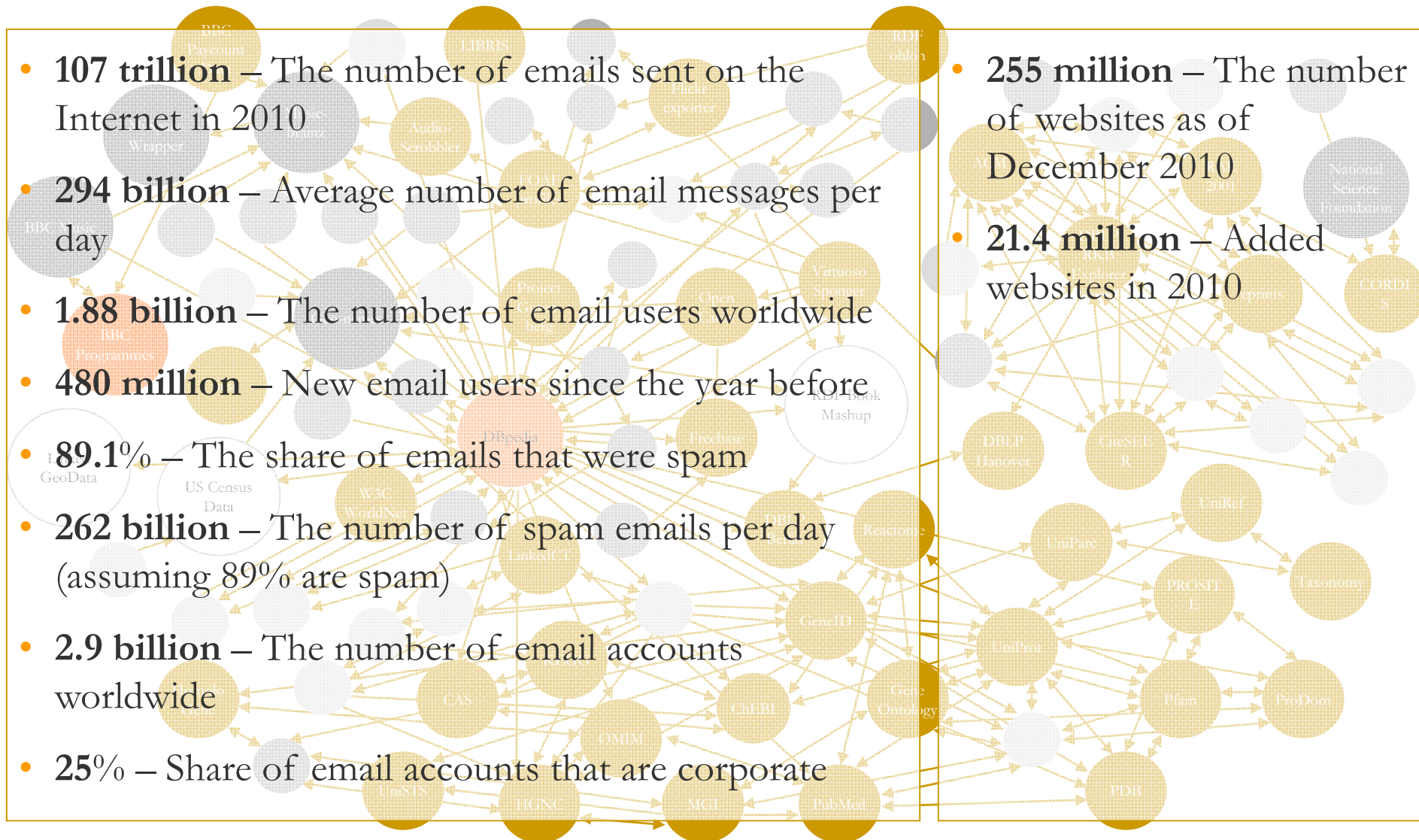


2010 onwards...



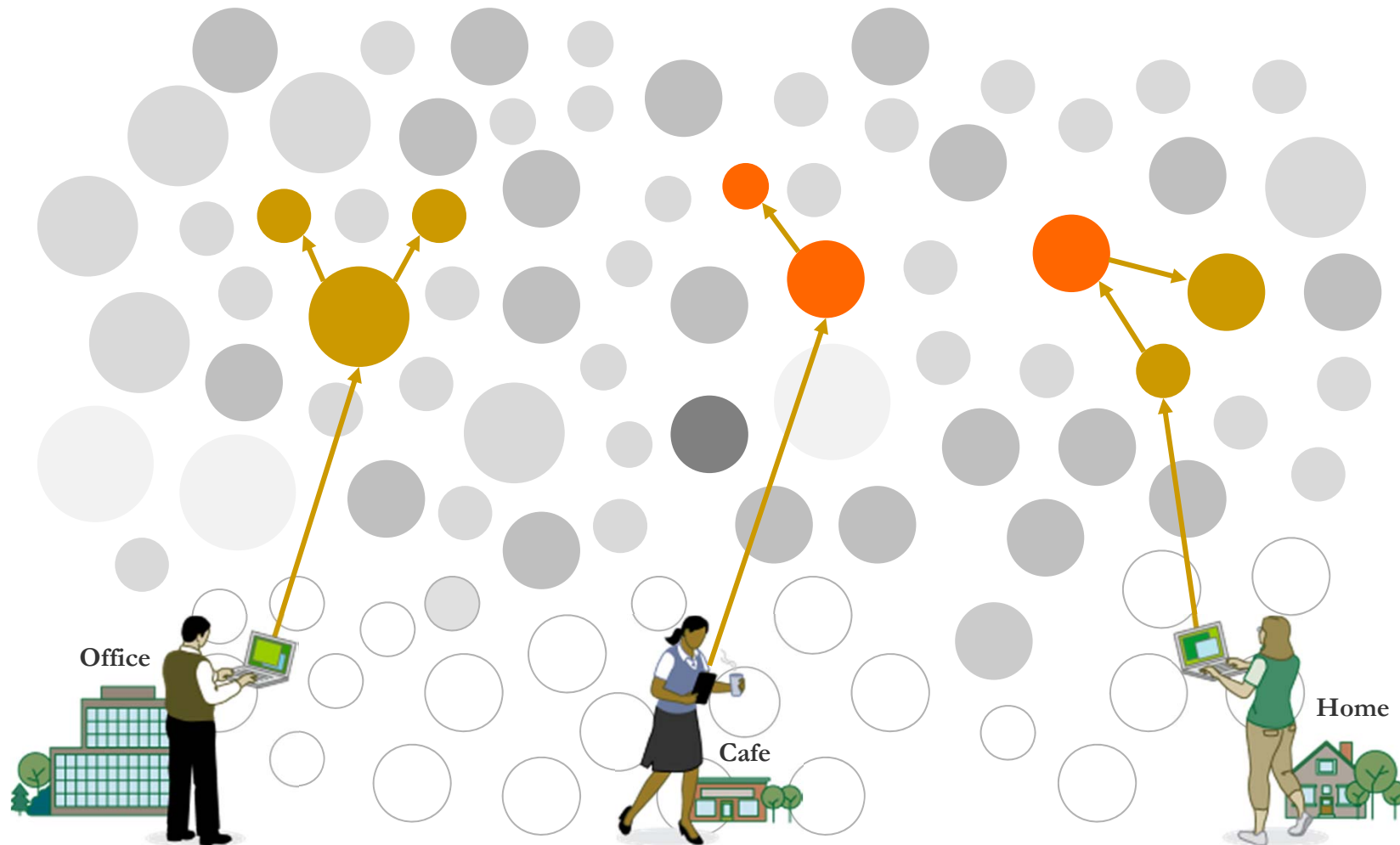
Provide content driven information and workflow solutions that help institutional decision-makers and researchers create significant value by building insights, enabling advancement in research and improving research-driven returns-on-investment

Web of linked data and knowledge outside the formal literature is growing exponentially

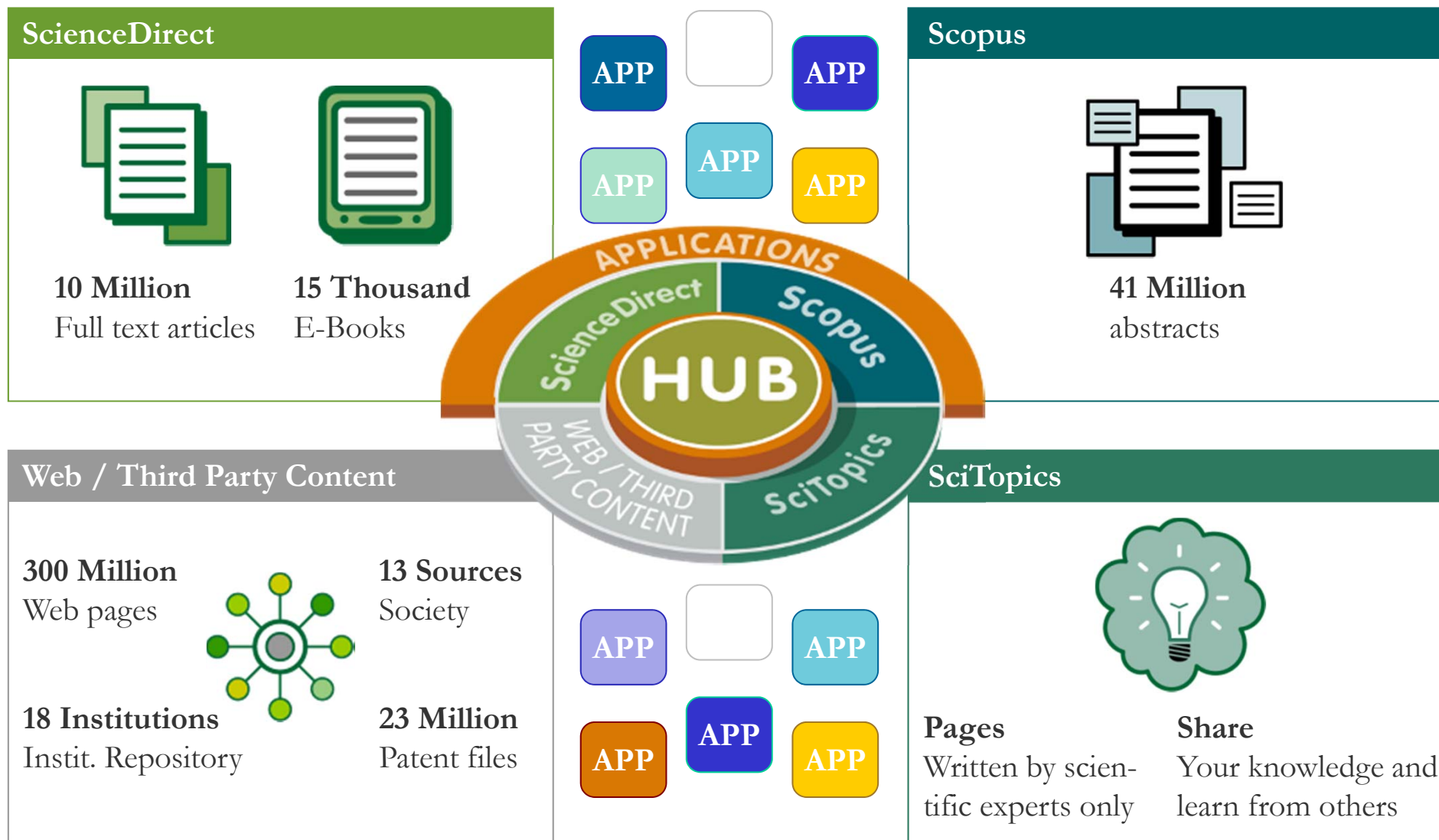


The problem isn't having too much information...

...It's about accessing the right information, at the right time, in the right place, in an efficient and effective way



SciVerse: our platform for delivering the right information and tools, at the right time



We already know a range of metrics...

Total number of papers

Total number of citations

Average number of citations
per author

Average number of papers
per author

Thomson Reuters' Impact Factor

Bergstrom's Eigenfactor

Egghe's g-index

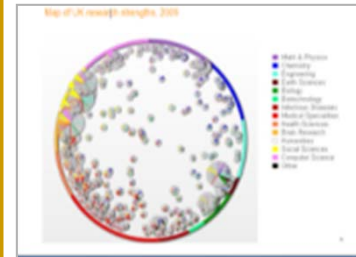
SCImago's Journal Rank

Hirsch h-index

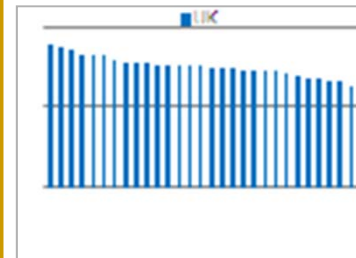


... and are rapidly developing new tools to meet today's and tomorrow's needs

Competencies –
Interdisciplinary, new areas



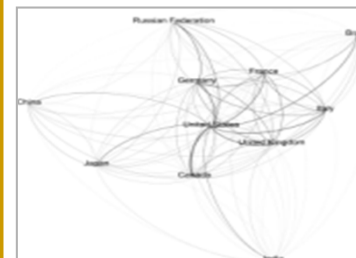
Usage – Different perspective; Social Sciences & Humanities more visible



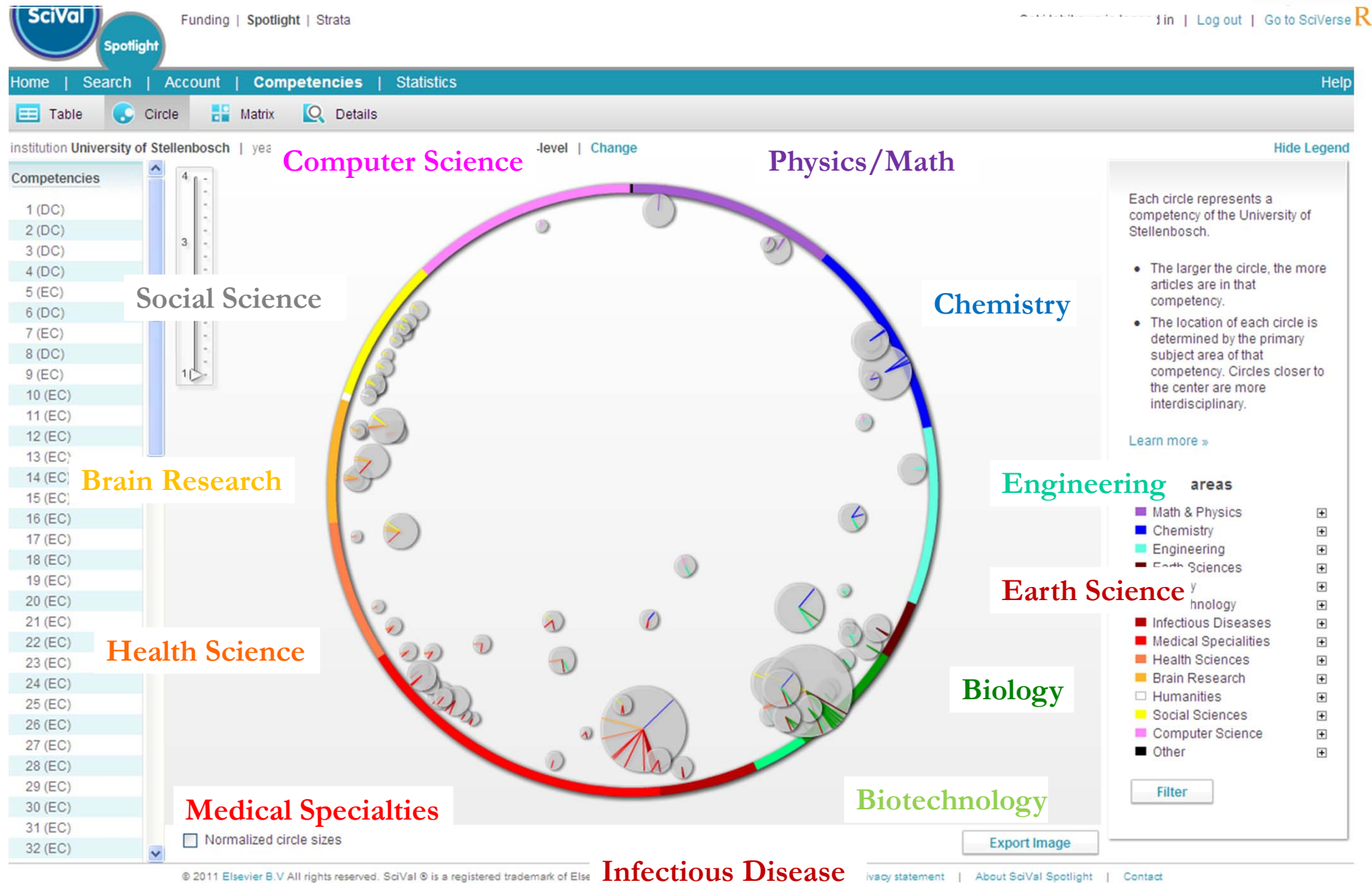
Brain circulation –
Researcher mobility and attraction



Collaboration networks



Tools to map strengths to focus and co-ordinate R&D investments



Tool to explore collaboration



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Map Table

institution University of Stellenbosch | year 2010 | Change

Collaborating institutions | Choose a different set of institutions Download

Subject areas

- Math & Physics
- Chemistry
- Engineering
- Earth Sciences
- Biology
- Biotechnology
- Infectious Diseases
- Medical Specialities
- Health Sciences
- Brain Research
- Humanities
- Social Sciences
- Computer Science

Australia

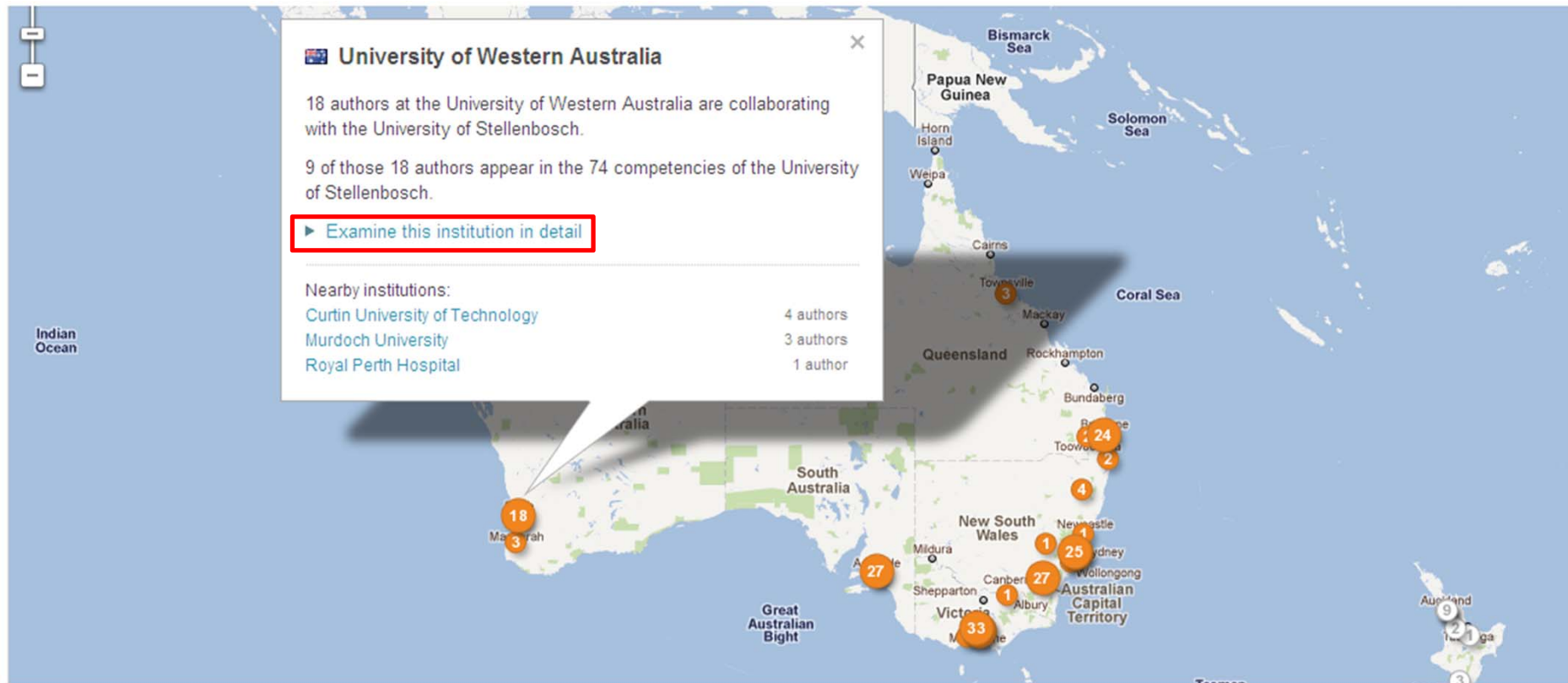
46 institutions in Australia are collaborating with the University of Stellenbosch.

28 of those 46 institutions appear in the 74 competencies of the University of Stellenbosch.

[Explore the institutions in this country](#)

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Tool to explore collaboration



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Map Table Details

institution **University of Stellenbosch** | year **2010** | [Change](#)

Collaboration with the University of Western Australia | Australia

Summary | **Authors** | **Competencies**

Subject areas

- Math & Physics
- Chemistry
- Engineering
- Earth Sciences
- Biology
- Biotechnology
- Infectious Diseases
- Medical Specialities
- Health Sciences
- Brain Research
- Humanities
- Social Sciences
- Computer Science

Where is collaboration taking place?

Co-authors

18 authors co-authored articles with the University of Stellenbosch

9 of those 18 co-authors appear in a competency of the University of Stellenbosch

Where are opportunities for new collaborations?

Authors in competencies

221 authors appear in a competency of the University of Stellenbosch

212 of those 221 authors are not yet co-authors of the University of Stellenbosch

Co-authored articles

18 articles were co-authored with the University of Stellenbosch

7 of those 18 co-authored articles appear in a competency of the University of Stellenbosch

Articles in competencies

158 articles appear in a competency of the University of Stellenbosch


151 of those 158 articles were not co-authored with the University of Stellenbosch

Show larger map

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Tool to enable collaboration





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LJ Barbour

Natural Sciences, Chemistry and Polymer Sciences

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Trends



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Publications

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- Charlotte E. Willans; Sara French; Kirsty M. Anderson; Leonard J. Barbour; Jan-André Gertenbach; Gareth O. Lloyd; Robert J. Dyer; Peter C. Junk; Jonathan W. Steed
Tripodal imidazole frameworks: Reversible vapour sorption both with and without significant structural changes
Dalton Transactions 2011;40 (3):573-582.
- Tia Jacobs; Martin W. Bredenkamp; Pieter H. Neethling; Erich G. Rohwer; Leonard J. Barbour
Templated polar order of a guest in a quasiracemic organic host
Chemical Communications 2010;46 (44):8341-8343.
- Storm V. Potts; Leonard J. Barbour

Similar Experts

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	Publications
HG Raubenheimer	171
KR Koch	105
H Pasch	182
L Klumperman	108
M Kastner	55

Journals

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	Publications
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New Journal of Chemis...	5

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Extraordinary Times Require Extraordinary Thinking

Challenges facing librarians

- Shrinking library budgets due to economic downturn
- Increased scrutiny and pressure on demonstrating return on investment
- Broader range of research products available in the market





“Libraries are attempting to face a future in which almost every fixed point has disappeared. Users are changing; content is changing; research is taking new forms.”

Derek Law

Centre for Digital Library Research



Librarians across the globe are responding to changes in creative ways...

	Challenge	Approach	Pivotal role of Library
 <p>Associate Professor in Malaysia</p>	Start a new Cross-discipline subject fields	<ul style="list-style-type: none"> Using SciTopics for its topic-field to promote pioneering work 	Link with Publishers, help with a Media sweep to enable cross-disciplinary research
 <p>Systems librarian in Ireland</p>	Demonstrate ROI from public investment in the institution	<ul style="list-style-type: none"> Design system infrastructure to showcase world-class research & easily extract business intel. reports 	Bridge with IT and external suppliers, furnish research leaders with key performance analysis
 <p>Dean of Library in Italy</p>	Provide library services with low budget	<ul style="list-style-type: none"> Introduce Communities of practice to share resources, foster learning and org. Development 	Facilitating and supporting communities
 <p>Associate Professor in Romania</p>	Find international collaborators in Heat Transfer	<ul style="list-style-type: none"> Use publications/online channel to promote research Initiate conferences, publishing projects 	Leverage A&I/Research Informatics data to expose potential collaborators

Thank you



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