



The Most Innovative
Web-Based Solution for
Establishing, Evaluating
and Executing Informed
Research Strategies

UNLOCK THE PROMISE OF YOUR RESEARCH





The Challenge: Navigating the Complex and Evolving Research Landscape without a Precise Map

Academic Executives need accurate research performance insight to make appropriate funding decisions and develop strategic blueprints that will lead their institutions to valuable breakthroughs



As the most pressing scientific challenges today increasingly require multidisciplinary solutions, the traditional methods for measuring research output no longer capture the reality of today's scientific landscape.

To date, research output has been evaluated based on the journal in which it is published. Each scientific journal is classified into a major field despite the fact that journals are progressively covering a wider array of disciplines and paradigms (sub-topics) that are not properly reflected in their field classification. The nature of this "square peg in a round hole" system leaves critical interdisciplinary research overlooked and unaccounted for - allowing only a simplistic and reductionist view of current institutional research initiatives.

As a result, valuable resources may not be put to their best use, collaboration opportunities can be missed, and emerging research trends can go undiscovered.

What is needed is an integrated and multidisciplinary view of the unique research strengths and vulnerabilities of one's institution in order to answer the following questions:

- How effective have our strategic decisions regarding research been?
- How can we best allocate limited internal funding?
- Are we capitalizing on emerging areas of research strength?
- How do we compare to competitors in our areas of strength?
- Are we overlooking opportunities?
- Which researchers should we consider recruiting? Which should we be sure to retain?
- Who are our potential collaborators?
- Do we need to adjust our focus?
- How can we best execute our new strategy?

 We need reliable support to help us make smarter, defensible decisions about allocating internal funding. 

Vice Chancellor for Research



The Solution: SciVal Spotlight - Evaluate, Establish and Execute Informed Research Strategies

Recognizing the need for a more insightful, multidisciplinary perspective on research performance, Elsevier created SciVal Spotlight based on a more detailed model of the current structure of science.

The SciVal Spotlight model was developed using an extensive database of published scientific literature including 5.6 million separate research papers published over a five year period, along with another two million of the reference papers that these publications cite heavily. Leveraging this content,

which covers almost all of the science currently being conducted across the globe, the tool drills down and focuses on the inter-related work being done within an institution that represents its unique core competencies, or the “distinctive competencies” in which an institution is a leader.

By providing this unique insight into research performance, **SciVal Spotlight** allows you to...

Evaluate your institution's research output in a single online interface

- View your individualized map, which captures the unique “research fingerprint” of your university, identifying its distinctive competencies.
- View your standing relative to the competition across a multitude of research driven areas of focus.

Establish or adjust your strategic direction

- Identify specific areas of research excellence and emerging strengths.
- Understand where you have been gaining or losing ground over time.
- Identify new leadership opportunities.
- Determine areas for further investment.

Execute your research strategy

- Identify potential collaborators.
- Determine top researchers to recruit and retain.

Evaluating research output based on distinctive competencies as opposed to broad based fields, the SciVal Spotlight tool offers insight that better reflects the nature of today's research environment. It allows you to determine if your institution is a leader or losing ground in specific areas of research, which can be defined based on the breakthroughs you are trying to achieve, not the classification of the journals in which your researchers are publishing.

Based on co-citation analysis and an innovative visualization technique, SciVal Spotlight produces unique graphical views of an institution's research performance from a multidisciplinary perspective.

Rather than show individual subject areas, SciVal Spotlight creates a map or “Wheel of Science” that illustrates research performance across scientific fields.

To ensure that your map represents the broadest coverage of research output, SciVal Spotlight uses Elsevier's literature research tool Scopus™ as the underlying data source. With over 16,000 peer-reviewed journals, Scopus is the largest abstract and citation database of research literature. In addition, the results for each competency can be compared with those of top competing institutions.

SciVal Spotlight is the ideal solution for Academic Executives, including:

- Deans • Provosts • Rectors
- Directors of Research
- Vice Chancellors of Research

This will be highly useful in identifying collaborators for multi-institutional grants initiatives, which continue to increase in number.

Vice Chancellor for Research

The SciVal Spotlight Experience

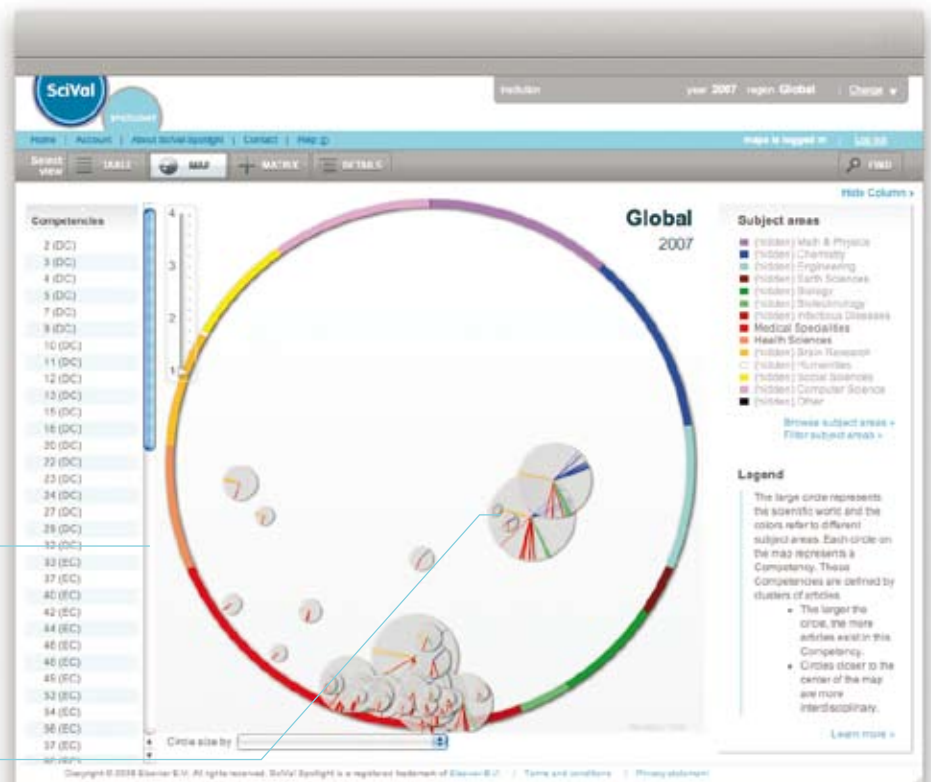
SciVal Spotlight gives a customized view of Distinctive Competencies helping you to navigate the scientific environment.

SciVal Spotlight Circle Map

The Circle Map allows you to quickly understand where your Institution stands in terms of Distinctive Competencies.

Each color on the circle represents a subject area, such as earth sciences, biology and social sciences

A Distinctive Competency reveals areas of strength. SciVal Spotlight calculates these by categorizing publication and citation metrics into subject clusters. These clusters are then grouped into institution-specific Distinctive Competencies



I like the way these authors are grouped in a Distinctive Competency, it gives me a new perspective.

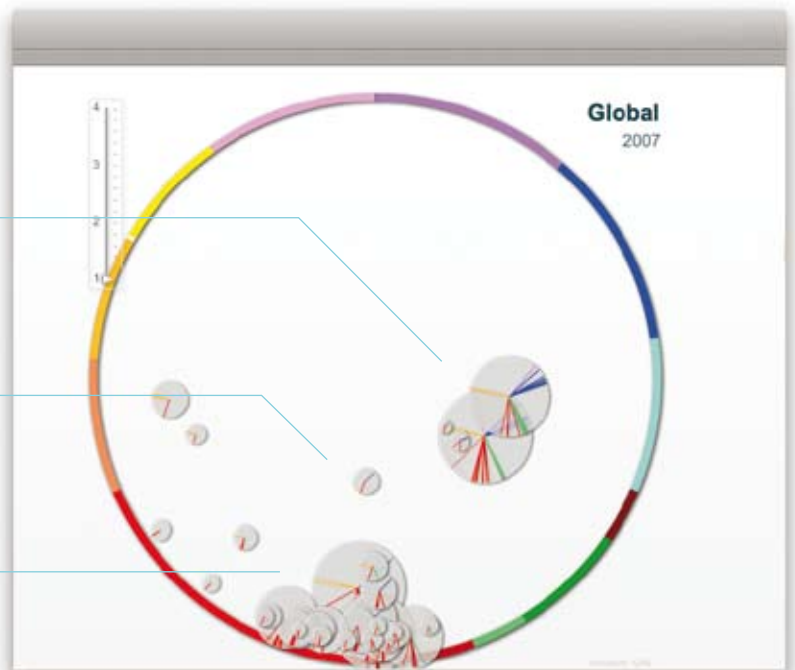
Library Director

SciVal Spotlight provides different views of your Distinctive Competencies so you can understand competitive advantages, threats and opportunities.

Each circle represents a Distinctive Competency for your institution

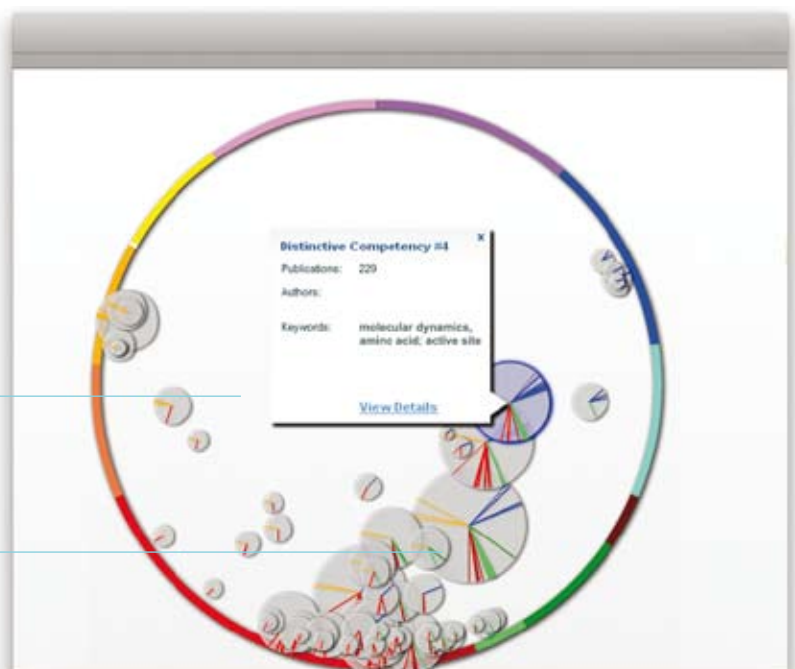
Circles positioned towards the middle indicate an interdisciplinary mix

A larger circle means a larger market size for this Distinctive Competency



Selecting a circle reveals details of each Competency

Determine the interdisciplinary mix needed to support and develop each research strength



SciVal Spotlight Matrix View

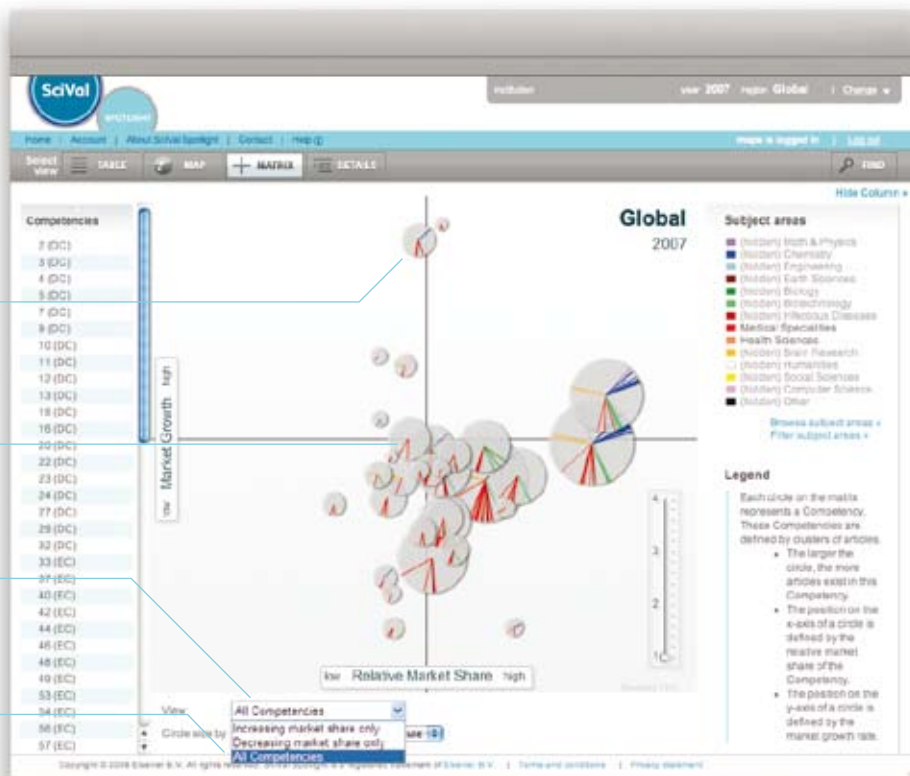
Select the Matrix view to see Distinctive Competency performance relative to your largest competitor.

Find rapidly emerging areas of research; potential areas for further investment

Identify areas where you have the potential to have publication leadership

Select a view to see in which areas you are growing or reducing in market share

Identify research strengths where you have a history of being a leader but are now losing ground

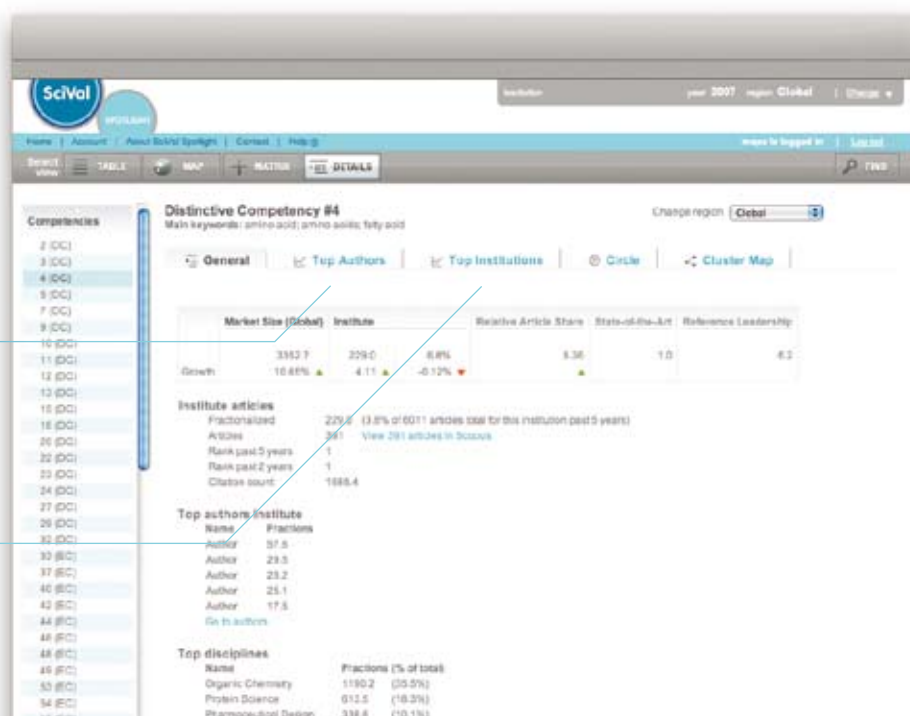


SciVal Spotlight Details View

Use the Details view to gain insight into top competing institutions and top authors within a Distinctive Competency.

The "Top Authors" tab shows the leading researchers in a Distinctive Competency. This information can be used for recruitment or retention purposes

The "Top Institutions" tab shows your research performance compared to other institutions within a specific research discipline. This can be used to identify potential competitors and collaborators



SciVal Spotlight Table View

View research performance metrics in a detailed table.

Competencies	Market Size	Growth	Article Share	Growth	Rank	RAS	SoA	HL
1 (OC)	6849.1	4.18% ▲	294.0 (4.30%)	-0.51% ▼	1	2.41	0.12	3.81
2 (OC)	4464.0	6.81% ▲	343.0 (5.41%)	-1.01% ▼	1	4.70	0.08	6.68
3 (OC)	4130.1	4.31% ▲	152.0 (3.36%)	-0.88% ▼	1	1.78	0.02	2.88
4 (OC)	3352.7	10.85% ▲	229.0 (6.83%)	-0.12% ▼	1	5.30	0.90	6.22
5 (OC)	3050.0	-4.25% ▼	107.4 (3.52%)	-0.27% ▼	1	1.01	0.20	1.27
6 (OC)	1544.0	-4.85% ▼	117.4 (5.77%)	-0.32% ▼	1	2.48	0.13	3.82
7 (OC)	1660.0	3.21% ▲	99.8 (4.33%)	0.26% ▲	1	2.38	0.04	3.48
8 (OC)	1660.0	10.76% ▲	52.4 (2.87%)	-0.38% ▼	1	1.28	0.07	1.41
9 (OC)	1332.0	-1.48% ▼	49.5 (2.88%)	-0.34% ▼	1	1.20	0.41	1.89
10 (OC)	2005.3	3.86% ▲	81.6 (4.37%)	-0.84% ▼	1	1.18	0.36	1.27
11 (OC)	1311.3	6.97% ▲	61.9 (3.33%)	-0.42% ▼	1	1.74	0.03	2.54
12 (OC)	1240.8	6.82% ▲	53.0 (4.33%)	-0.30% ▼	1	1.87	1.26	0.64
13 (OC)	1089.2	5.41% ▲	33.2 (3.02%)	-0.21% ▼	2	0.86	0.87	0.68
14 (OC)	1116.4	6.36% ▲	41.1 (3.68%)	0.88% ▲	1	1.81	1.44	0.63
15 (OC)	875.6	-3.28% ▼	25.4 (2.90%)	0.40% ▲	1	1.20	-0.01	1.18
16 (OC)	647.4	2.70% ▲	22.7 (2.88%)	-0.81% ▼	3	0.71	-0.10	1.43
17 (OC)	620.7	-4.08% ▼	18.9 (2.39%)	-0.64% ▼	1	1.40	1.20	0.67
18 (OC)	770.1	4.98% ▲	28.8 (3.74%)	-0.12% ▼	1	1.31	0.26	2.05
19 (OC)	636.4	13.86% ▲	31.7 (4.89%)	-1.15% ▼	1	2.06	0.30	3.14
20 (OC)	662.6	26.17% ▲	23.6 (3.37%)	-0.83% ▼	2	0.96	1.49	0.65
21 (OC)	734.0	7.30% ▲	32.9 (4.48%)	0.26% ▲	2	0.71	0.08	0.80
22 (OC)	686.3	8.90% ▲	18.4 (2.39%)	-0.02% ▼	3	0.81	1.09	0.42
23 (OC)	636.4	2.45% ▲	11.2 (2.07%)	-0.35% ▼	1	1.06	-0.29	1.65
24 (OC)	648.6	6.11% ▲	25.2 (3.89%)	-0.83% ▼	1	1.32	-0.84	3.97
25 (OC)	556.0	6.76% ▲	18.0 (3.39%)	-0.40% ▼	3	0.82	0.07	0.67
26 (OC)	700.9	9.94% ▲	30.0 (4.33%)	0.42% ▲	2	0.80	0.01	0.93
27 (OC)	520.4	-6.85% ▼	23.9 (3.77%)	0.37% ▲	1	1.31	0.01	1.88
28 (OC)	475.8	4.88% ▲	63.3 (13.33%)	0.28% ▲	1	2.64	0.11	3.24
29 (OC)	484.1	-4.85% ▼	12.3 (2.88%)	-0.74% ▼	2	0.86	0.49	0.50



Decision making will always be subjective, but we are trying to move to a more evidence-based model.

Development Manager



SciVal delivers comprehensive and integrated workflow solutions to help you evaluate, establish and execute your research strategies and performance assessments.

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