

# Trendy a vývoj vědeckého publikování

Konference Inforum 2013: *19. ročník konferenc o informačních zdrojích*

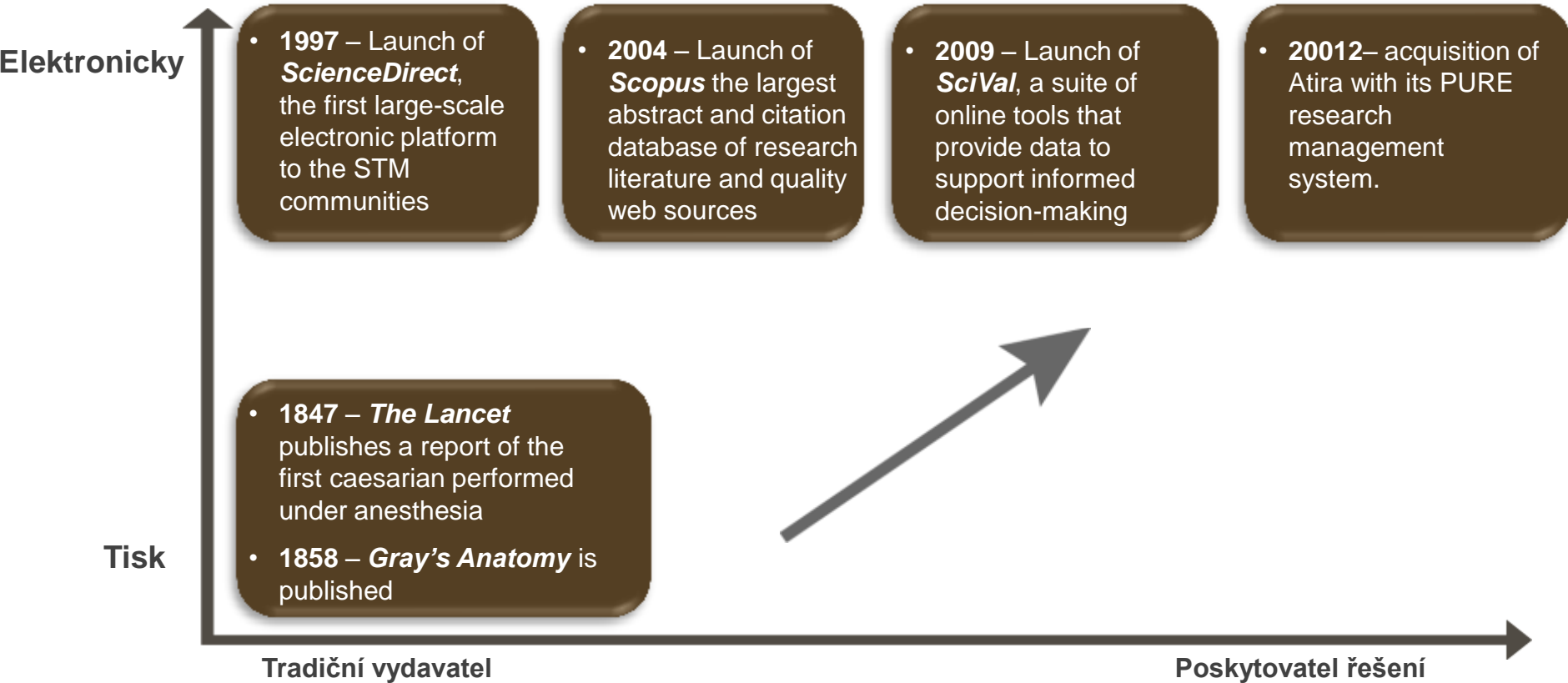
Praha, Květen 21st 2013

Lucie Vavříková, Country Manger Czech Republic, Elsevier

# Agenda

- Integrace a platformy
- Otevřený přístup
- Hodnocení a vědecká výkonnost
- Řízení vědy
- Vizibilita

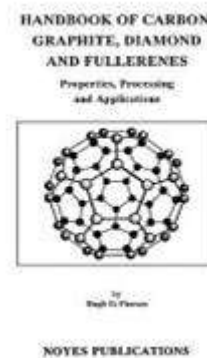
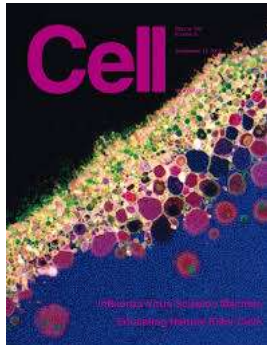
# Elsevier spolupracuje s vědeckou komunitou už 125 let



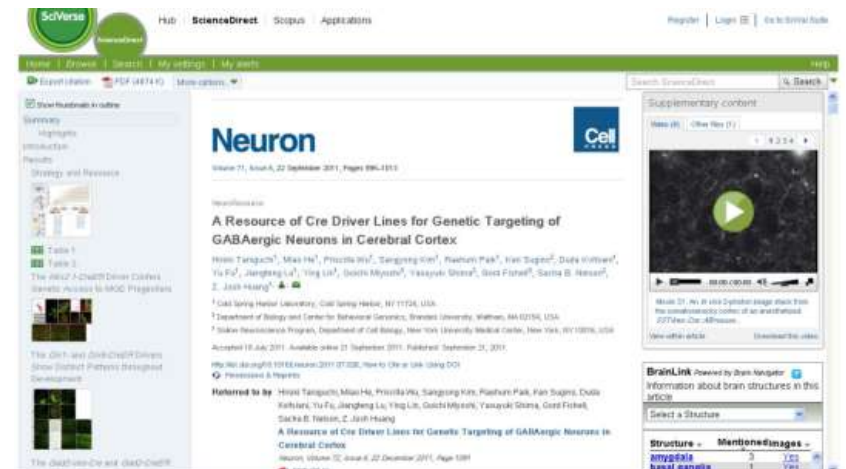
*Elsevier je průkopníkem v oblasti elektronických nástrojů, které pomáhají ve vědecké práci, zvyšují její efektivitu a rozhodování odborníků v oblasti medicíny*

# Rozšiřování funkčnosti platforem, jejich integrace a vytěžování pomocí discovery services zjednodušuje vědcům jejich práci

- 4324 časopisů, knižních edic a příruček, 19225 referenčních děl, knih a svazků knižních edic



- Integrace mezi produkty Elsevier
- Discovery
  - Primo (Ex Libris)
  - Summon (SerialsSolutions)
  - EDS (EBSCO Discovery Service)
  - WorldCat Local (OCLC)
- Article of the future



# Přibližování se práci výzkumníků chytrými pomůckami a nástroji vytvořenými na míru

The screenshot displays the ScienceDirect website interface. At the top, there are navigation links for 'Hub', 'ScienceDirect', 'Scopus', and 'Applications'. A search bar is located on the right side of the header. The main content area features a large article title 'Computers & Graphics' and a sub-section 'Data-aware 3D partitioning for generic shape retrieval'. The article is authored by Ivan Sipiran, Benjamin Bustos, and Tobias Schreck. The abstract is visible at the bottom of the article section. On the right side, there is a sidebar with various tools and options, including 'Bibliographic information', 'Citing and related articles', and 'Applications and tools'. A specific tool window titled 'Code 1 (Bash): Retrieval demo (Code 1)' is highlighted with a red box, showing a terminal window with a table of results. The table has columns for 'Working Copy', 'Regularize', 'Original', and 'Output'. Below the table, there are several data entries labeled 'Data 1: Query object' through 'Data 6: Fifth ranked model'. The bottom of the page features logos for 'reaxys', 'Knovel', 'GEOFACETS', and 'EMBASE'.

Hub ScienceDirect Scopus Applications

Register Login Go to SciVal Suite

You have Guest access to ScienceDirect. Find out more...

Home Publications Search My settings My alerts Shopping cart Help

Export citation PDF (3071 K) More options...

Show thumbnails in outline

Highlights

Abstract

Graphical abstract

Keywords

1. Introduction

2. Related work

3. Data-aware 3D partitions

3.1. Interest point detection

3.1.1. Control of mesh resolution

3.2. Clusters of interest points

3.3. Partitioning and description

Computers & Graphics

Available online 1 May 2013

In Press, Corrected Proof — Note to users

Special Section on 3D Object Retrieval

### Data-aware 3D partitioning for generic shape retrieval

Universally Available

Ivan Sipiran<sup>a</sup>, Benjamin Bustos<sup>a</sup>, Tobias Schreck<sup>b</sup>

<sup>a</sup>KDW+PRISMA Research Group, Department of Computer Science, University of Chile, Chile

<sup>b</sup>Visual Analytics Group, Department of Computer and Information Science, University of Konstanz, Germany

<http://dx.doi.org/10.1016/j.cag.2013.04.002>; How to Cite or Link Using DOI

Permissions & Reprints

Highlights

- We propose a simple and effective partitioning algorithm for 3D meshes.
- The use of part descriptions enhances the use of global descriptors.
- We define a distance as an optimization problem, including both linear and quadratic constraints.
- Our experiments show that the partitioning algorithm has a great influence in the final effectiveness of retrieval tasks.

Abstract

In this paper, we present a new approach for generic 3D shape retrieval based on a mesh partitioning scheme. Our method combines a mesh global description and mesh partition descriptions to represent a 3D

Bibliographic information

Citing and related articles

Applications and tools

Collage

More information on this application

Explore executable code and data belonging to this article

Author's introduction: Experiments Data-Aware Partitioning

Code 1 (Bash): Retrieval demo (Code 1)

Working Copy	Regularize	Original	Output
Object="..."	Method="LIM"	mu="0.0"	Descriptor="PARTITION"
./Experiment/retrievalExperiment.sh Object Method mu Descriptor numList			

Data 1: Query object

Data 2: First ranked model

Data 3: Second ranked model

Data 4: Third ranked model

Data 5: Fourth ranked model

Data 6: Fifth ranked model

Workspace



# Přehledná správa dokumentů pro výzkumníky



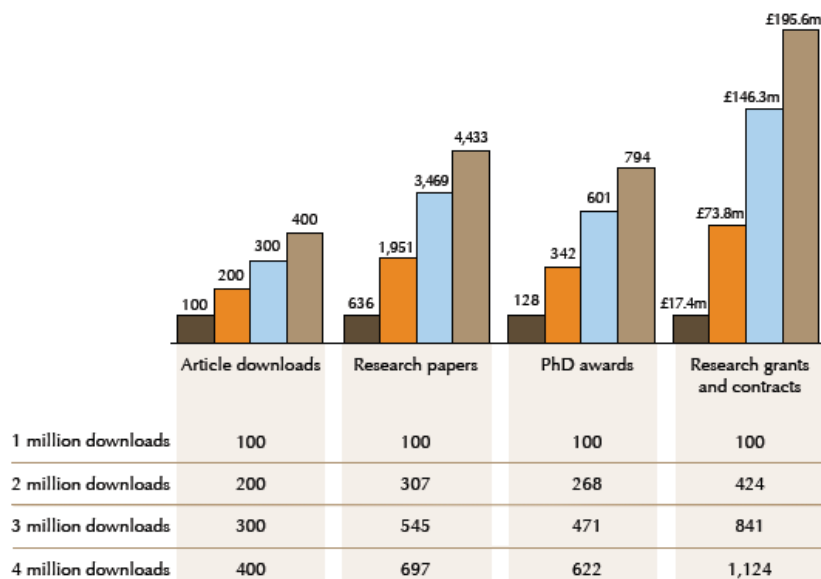
# WebShop pomůže autorům na každém kroku publikačního procesu

[www.webshop.elsevier.com](http://www.webshop.elsevier.com)



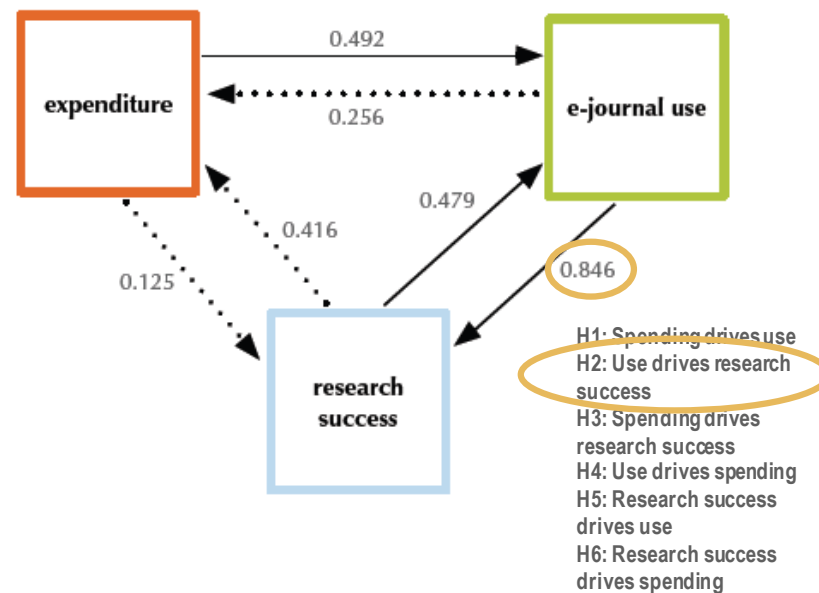
# (Snadný) přístup k vědeckým informacím napomáhá efektivitě výzkumu - externí studie

## E-Journal use and relation with research success



Source: "E-journals: their use, value and impact - Phase One report", RIN, April 2009

## E-Journal use drives research success



Source: "E-journals: their use, value and impact - Phase Two report", RIN, January 2011

- 2x nárůst stažení článku předznamenává 3x nárůst článků napsaných a 2.7x nárůst PhD, a také 4x nárůst získaných grantů
- Na základě výzkumu během tří let se ukazuje silná korelace: využití elektronických časopisů predikuje vědecký úspěch



# Elsevier a otevřený přístup

## Open Access Journals

Discover our range of open access journals.

## Open Access Articles

Publish open access in over 1500 of our high quality hybrid journals.

## Green Open Access

Elsevier's approach to self archiving.

## Open Archive

Free access to archived research in a number of Elsevier and Cell Press Journals.

### Funding body agreements with Elsevier:

Arthritis Research Campaign (UK)	Department of Health (UK)	National Institutes of Health (US)
Austrian Science Fund (FWF)	Dunhill Medical Trust	Research Councils (UK)
BBSRC	ESRC	Telethon (Italy)
British Heart Foundation (UK)	Howard Hughes Medical Institute (US)	Wellcome Trust (UK)
Cancer Research (UK)	Medical Research Council (UK)	UK Department for International Development
Chief Scientist Office	Motor Neuron Disease Association	

## ▪ Production and hosting on ScienceDirect

sponzorované hostování časopisu na platformě SD (zlatá cesta)

### **Výhody**

- ✓ Zviditelnění profilu národních publikací
- ✓ Celosvětová viditelnost
- ✓ Rozvoj vysokoprofilového akademického časopisu : reprezentuje ČR
- ✓ Získání expertízy v akademickém publikování díky publikování společně s Elsevier

### **Kritéria**

- ✓ Recenzované odborné periodikum
- ✓ Dodržování mezinárodní etická a vydavatelská pravidla
- ✓ Anglický název, klíčová slova a abstrakt
- ✓ Je zajímavý pro uživatele ScienceDirect

Národní časopis interdisciplinárního charakteru, P&H od r. 2010:

**x 2** počet stažení během dvou let vzrostl z 49835 v r. 2011 na 78328 v r. 2012.

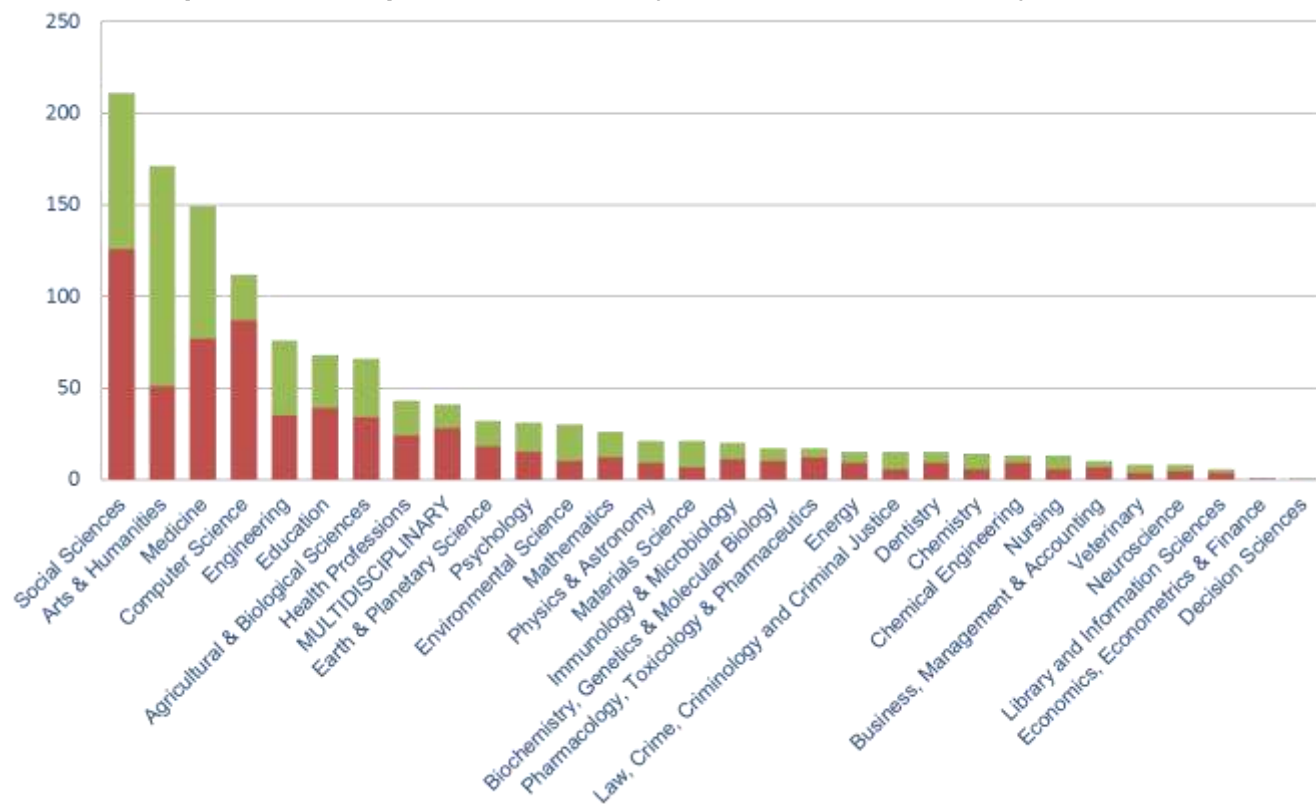
**x 3** počet citací mezi lety 2010 - 2012 (Scopus)

Články zaslány z **27** zemí

Publikovány články od autorů ze **17** zemí

# Základem sledování a hodnocení výzkumu je bibliometrie, tedy citační data

- **50 000 000** záznamů ve Scopus
- **75 000** knih bude přidáno do Scopus během 2013-2015 (zdarma)
- **2 820** časopisů navrženo k zařazení v r. 2012, z nichž **1 020** bylo postoupeno do výběrového řízení
- **47% (27.5% CZ)** časopisů z výběrového řízení bylo zahrnuto do Scopus



# Scopus si během několika málo let vydobyl silnou pozici v hodnocení vědy



Více než 95 nejlepších světových laboratoří, institucí a organizací veřejné správy využívá Scopus pro hodnocení

# Rozvoj Scopus směrem ke zdroji kvalitních citačních dat

- Orcid ID
- Projekty čištění dat
- Nové metriky
- API



The screenshot shows the Elsevier Developers page for Scopus Integration. The header includes the Elsevier logo and "Developers" title, with navigation links for Programs, My Projects, Documentation, and Community. Below the header is a banner for "SciVerse Scopus Scopus Integration". A sidebar on the left contains a menu with links for Registration, Documentation, Content Policies, FAQ, and Scopus Info Site, along with a "Visit SciVerse Scopus" button. The main content area is titled "Add Scopus data to your web site" and contains text about JavaScript APIs, a list of two API types (Scopus Document Search and Scopus Cited-By Count), and information about access and registration. A graphic on the right shows three overlapping circles labeled "SciVerse", "Scopus", and "Scopus".

**ELSEVIER** | Developers Programs ▾ | My Projects | Documentation | Community ▾

**SciVerse Scopus** | **Scopus Integration**

- Registration
- ▾ Documentation
- Content Policies
- FAQ
- Scopus Info Site

[Visit SciVerse Scopus](#)

### Add Scopus data to your web site

We've created JavaScript APIs to make it easier to integrate data from Scopus into your own website. They make excellent tools to help you showcase your publications, build search widgets for library pages, or mash up Scopus citation data with data from other APIs.

These JavaScript APIs are essentially overlays to some of the SciVerse Content APIs that return data from Scopus, and supersede the older Scopus API. There are two interfaces:

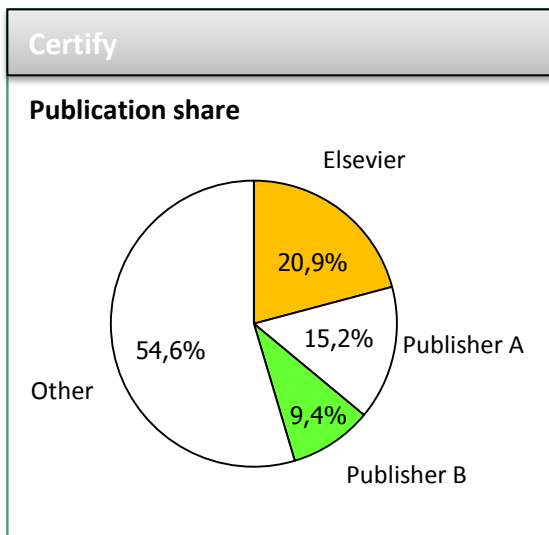
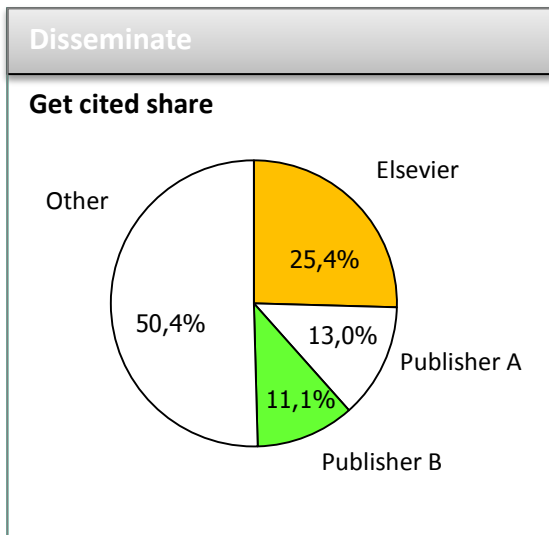
- The [Scopus Document Search API](#), which allows you to search through Scopus' index of publications and display the results on your web site;
- The [Scopus Cited-By Count API](#), which allows you to display the cited-by count for a publication (i.e. the number of times that publication has been cited in Scopus) as an image on your web site.

Access to these APIs is granted instantly after registering. They are free to use for non-commercial purposes, as long as you honor our [policies for content use through our APIs](#). You don't need to have a full subscription to Scopus to use the JavaScript APIs, but if you have one, you'll be able to get more data from the API. Read more about that [here](#).

If you work for, or on behalf of, an institution with a Scopus subscription and require more functionality than offered by our JavaScript APIs, you can request direct access to our RESTful interfaces, which provide additional flexibility. For that, please register for the JavaScript APIs first and then [contact us](#).

A graphic consisting of three overlapping circles. The largest circle is green and labeled "SciVerse". To its right is a smaller blue circle labeled "Scopus". Below the green circle is another smaller blue circle labeled "Scopus".

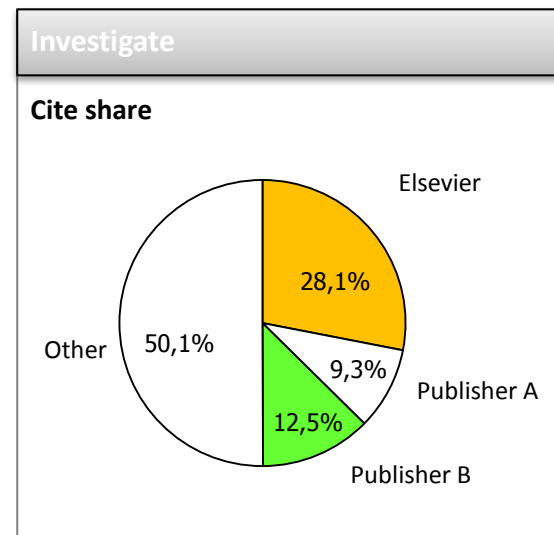
# Role Elsevier v českém výzkumu



**Case in point:**  
Czech Republic – all affiliations

**Source:**  
Scopus data 2007-11

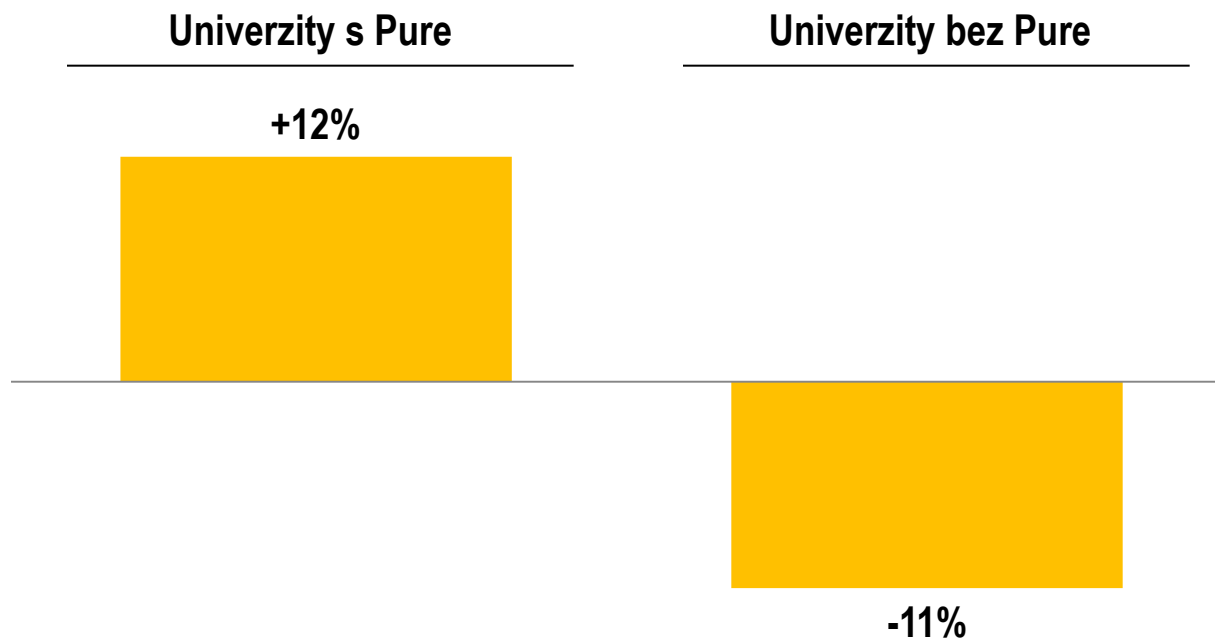
**Coverage:** Approximately 5,000 publishers







## Změna v příjmech z grantů v UK, 2012 vs 2011



Příjem 2011 (£Million):	161	593
Příjem 2012 (£Million):	180	531
Změna 2011-2012 (£Million):	+19	-62

Vzorek obsahuje 20 britských univerzit, které jsou mezi největšími příjemci grantů v 2012

Zdroj: SciVal

# Narůstají požadavky na informace pro řízení výzkumu:

## (2) Data a metriky pro vzájemné srovnávání: příklad Snowball Metrics



### Snowball Metrics

#### Why Snowball Metrics?

The efforts and experiences of English higher education institutions in implementing research management systems were surveyed in 2010. The study also aimed to identify problems with the current approaches used, and to highlight best practice.



*"This recipe book is the best practice for how data can support institutional decision making, and we hope that making it freely available to everyone who is interested will be a valuable way to further share this knowledge. We are looking forward to input from the sector to understand the extent to which this best practice is instructive, and how it can be improved."*

PROFESSOR MICHAEL ARTHUR, VICE-CHANCELLOR, UNIVERSITY OF HULL



*"It's unique for universities to join forces and take time to consider how we would like to look at our performance, and by extension how we would like our performance to be viewed. We are pleased that all the project partners have committed to openly sharing their metric definitions; we hope that the free availability of the "recipes" will encourage enthusiastic support and adoption by universities across the UK, in Europe and further afield."*

PROFESSOR ERIC THOMAS, VICE-CHANCELLOR, UNIVERSITY OF BIRMINGHAM



#### Applications Volume\*

VOLUME OF RESEARCH GRANT APPLICATIONS SUBMITTED TO EXTERNAL FUNDING BODIES

##### Metric definition

Applications Volume\* calculates the number and price of research grant applications that are submitted to external funding bodies.

(a) (b)



#### Income Volume\*

VOLUME OF RESEARCH INCOME SPENT

##### Metric definition

Income Volume\* calculates the value of awarded budget derived from research awards from external funding bodies that has been spent.

(a) Count of  
(b) Price of

##### UK applic

- Denominator
- HESA cost
- mapping
- principal
- Funder type
- Institution

Calculate from



#### Market Share\*

PERCENTAGE OF SECTOR TOTAL RESEARCH INCOME PER INSTITUTION

##### Metric definition

Market Share\* calculates the percentage of total research income across the sector related to a given institution.



##### UK application

- Denominators:
- HESA cost centre
- Funder type (page 15)
- Institution

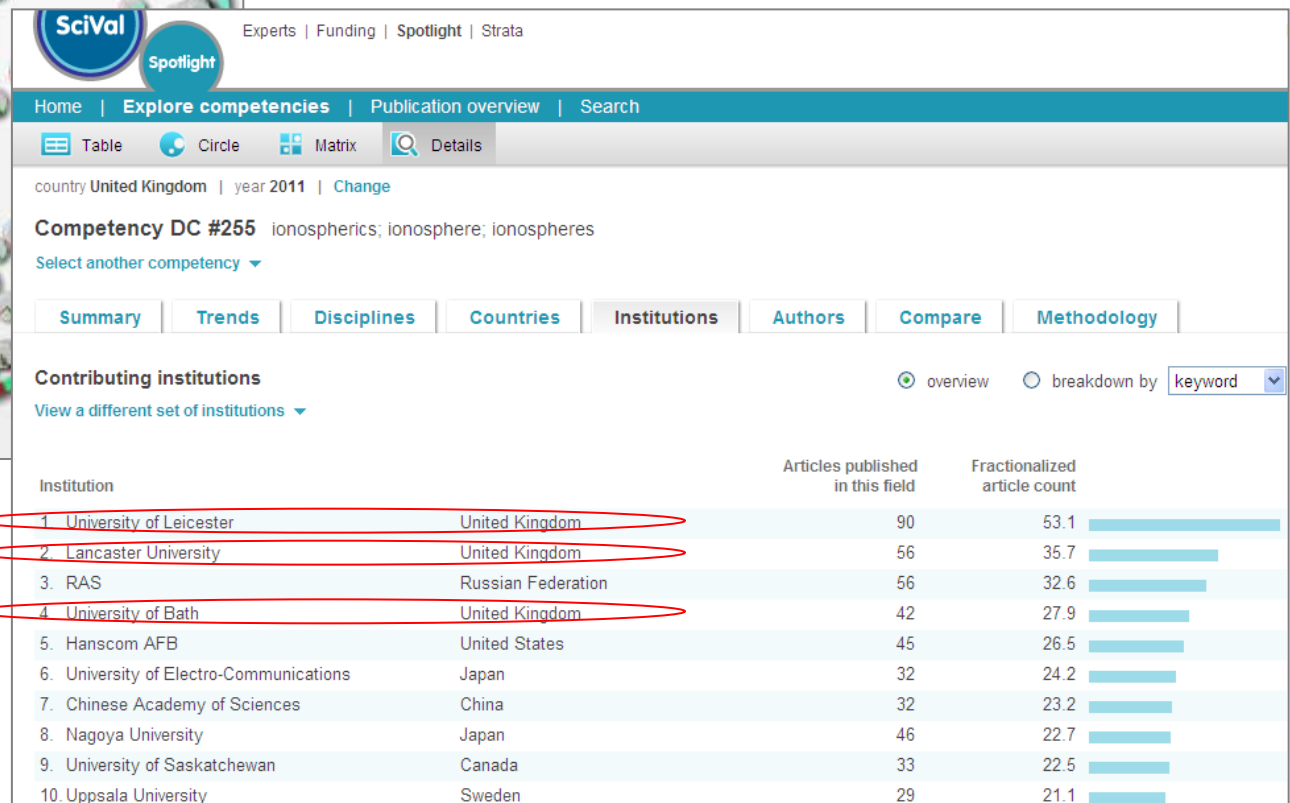
Calculate from 2007/2008 financial year to most recent complete financial year.

Income data available from HESA Finance Record are used to generate Market Share\*. The sector total research income is the total national income as reported to HESA.

Currency is British pounds (GBP).

# Narůstají požadavky na informace pro řízení výzkumu:

## (3) Požadavky na analytické nástroje



Zdroj: SciVal Spotlight

# Narůstají požadavky na informace pro řízení výzkumu:

## (4) Požadavek na viditelnost, vizibilitu výzkumu – příklad North Carolina

**REACH NC**  
research, engagement, and capabilities hub of north carolina

Research, Engagement and Capabilities Hub of North Carolina

HOME ABOUT PARTNERS TUTORIALS CONTACTS PROFILES

$$H = \int d\vec{x} \psi(\vec{x}) (-\alpha \vec{\nabla} + \beta m) \psi(\vec{x})$$
$$-\frac{1}{2} \int d\vec{x} d\vec{y} \rho^a(\vec{x}) V_L(\vec{x}-\vec{y}) \rho^a(\vec{y})$$
$$\psi(\vec{x}) = \sum_{\lambda} \dots$$

REACH NC is a Web portal that enables users to find experts and assets within North Carolina higher education and research institutions. [Read More](#)

[CLICK TO VIEW REACH NC PROFILES](#)

**REACH NEWS FEED**

**Genetically-engineered preclinical models predict pharmacodynamic response**  
Preclinical testing a necessary step in drug development

[READ STORY](#)

**Money Key Factor in Driving Med Students From Primary Care Careers**  
Primary care physicians are at the heart of health care in the United States, and are often the first to diagnose patients and ensure those patients receive the care they need. But researchers from North

**UPCOMING EVENTS**

There are no upcoming events at this time.

**ABOUT REACH NC**

REACH NC began as a way to allow North Carolina to tap into its own vast pool of experts and resources. As home to major research institutions, Research Triangle Park and a robust public university system, North Carolina is also the home to world-class scientists, engineers, artists and humanists.

[LEARN MORE](#)

# Řada SciVal poskytuje data potřebná pro různé činnosti v souvislosti s hodnocením a řízením výzkumu



## Examples...

### Transparent and effective research management

- Capturing and managing all processes of research in organizations for all type of users
- Provides comprehensive and easy reporting functionalities at any level



### Grow national and/or global prestige

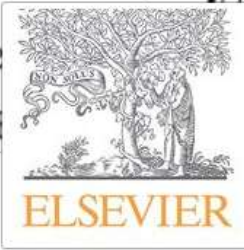
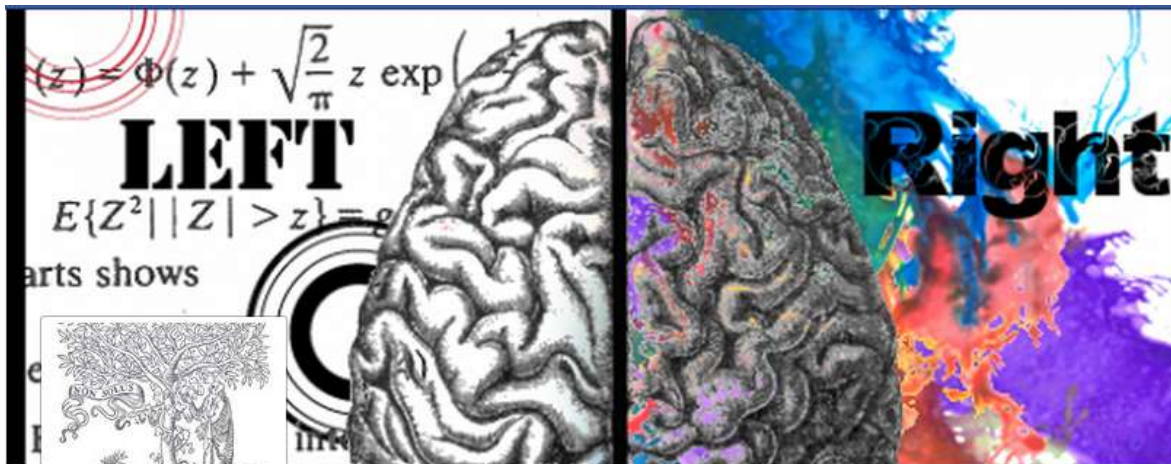
- Improve collaboration within the university and with other institutions
- Improve performance by evaluating periodically on all levels and adjusting research strategy
- Improve visibility to show performance and expertise to the global research community

### Identify and build on research strengths

- Identify existing strengths
- Identify researchers for recruiting or collaboration, conduct “what-if” scenarios
- Find funding opportunities in areas of strength

### Acquire research funding

- Find funding opportunities
- Search for collaborators
- Manage applications



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To se mi líbí (36) · Mluví o tom (10)

✓ To se mi líbí

Zpráva

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O mně – Navrhnout úpravu



Fotky

36

To se mi líbí



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25 duben

Víte, jak si čistit zuby ve vesmíru?

<http://www.geekosystem.com/brushing-teeth-in-space/>



**Chris Hadfield Shows How to Brush Your Teeth in Space [Video]**  
[www.geekosystem.com](http://www.geekosystem.com)

At some point in their lives, nearly every right-thinking kid wants to be an astronaut, because being an astronaut is



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10 květen

Zajímá vás otevřený přístup? Přečtěte si pár slov k právním, licencím a vývoji open access.



**What changes when publishing open access — understanding the fine print | Elsevier Connect**  
[elsevierconnect.com](http://elsevierconnect.com)

A brief guide to author and user rights, user licenses and new developments in OA publishing

[I.vavrikova@elsevier.com](mailto:I.vavrikova@elsevier.com)

**DĚKUJI ZA POZORNOST. OTÁZKY?**