

# Lithuanian Research Library Consortium conference

Vilnius, May 24th 2012

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# AGENDA

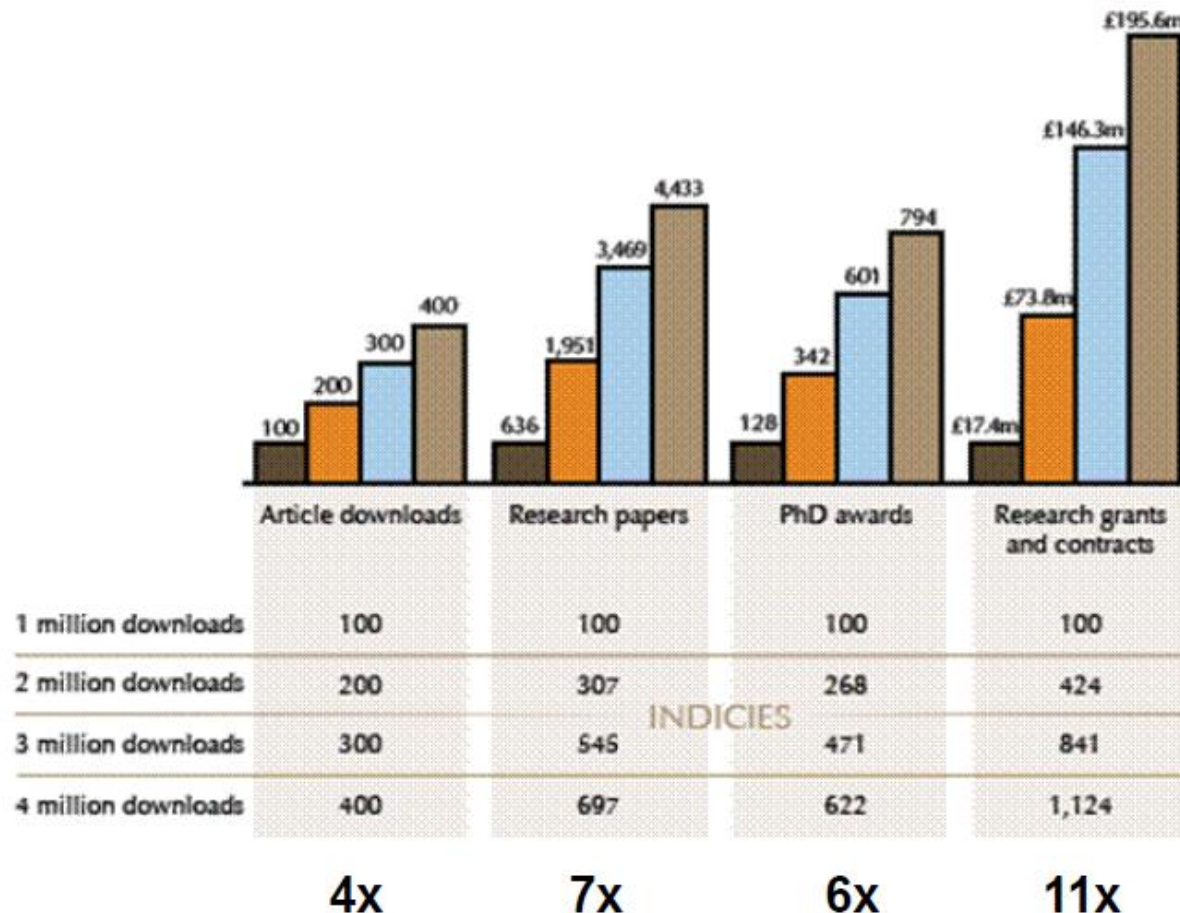
- **Global trends in science**
- **Position of Lithuania in the world**
- **Usage and trends**
- **Access levels in Lithuania – SD journals are not everything – need for BF's and eBooks**
- **Discovery tools – głównie Scopus (one slide on SciVal )**

# Trends in science



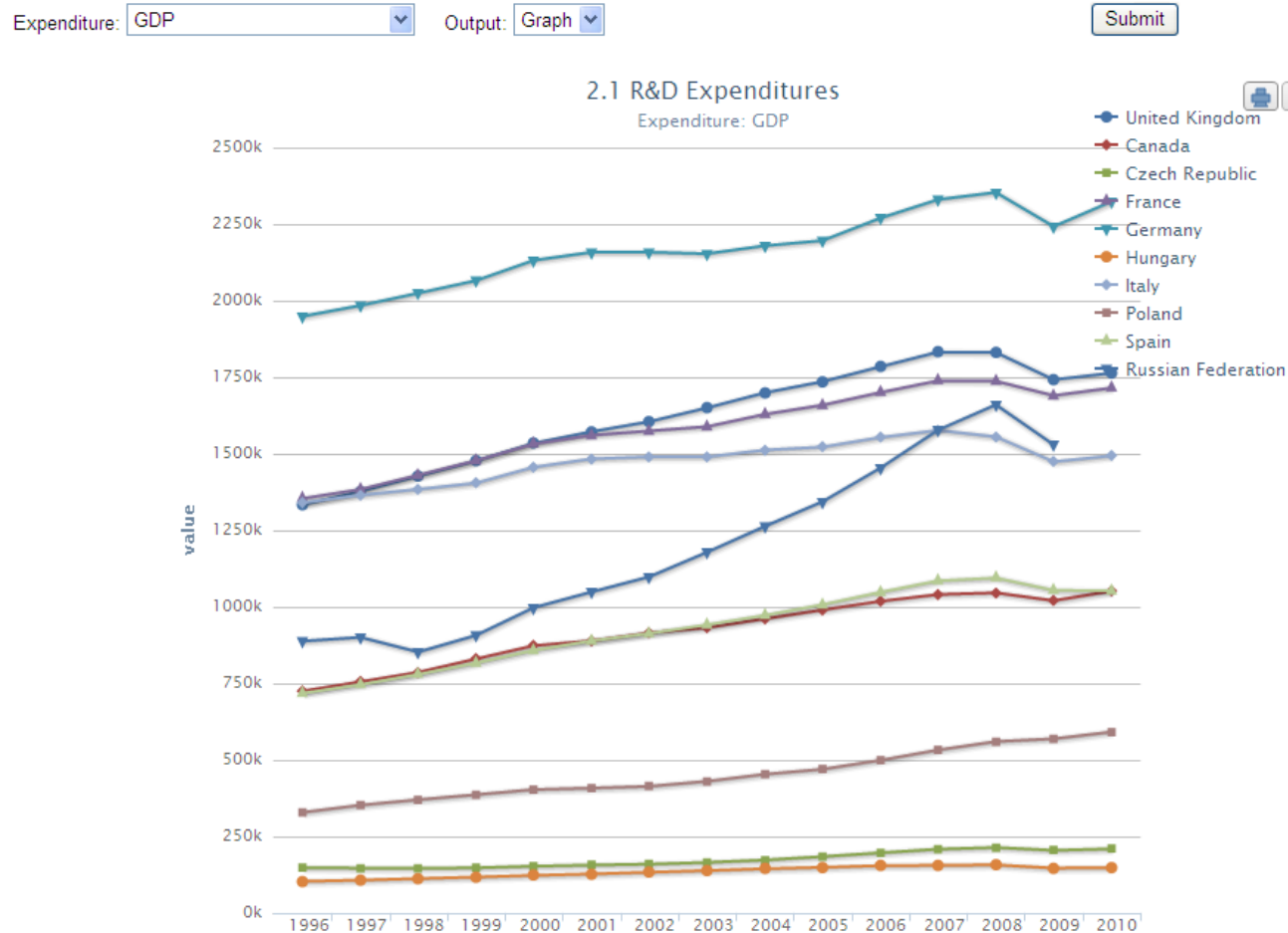
# Journal use stimulates article output

Model of journal use and outcomes - based on study of UK Universities



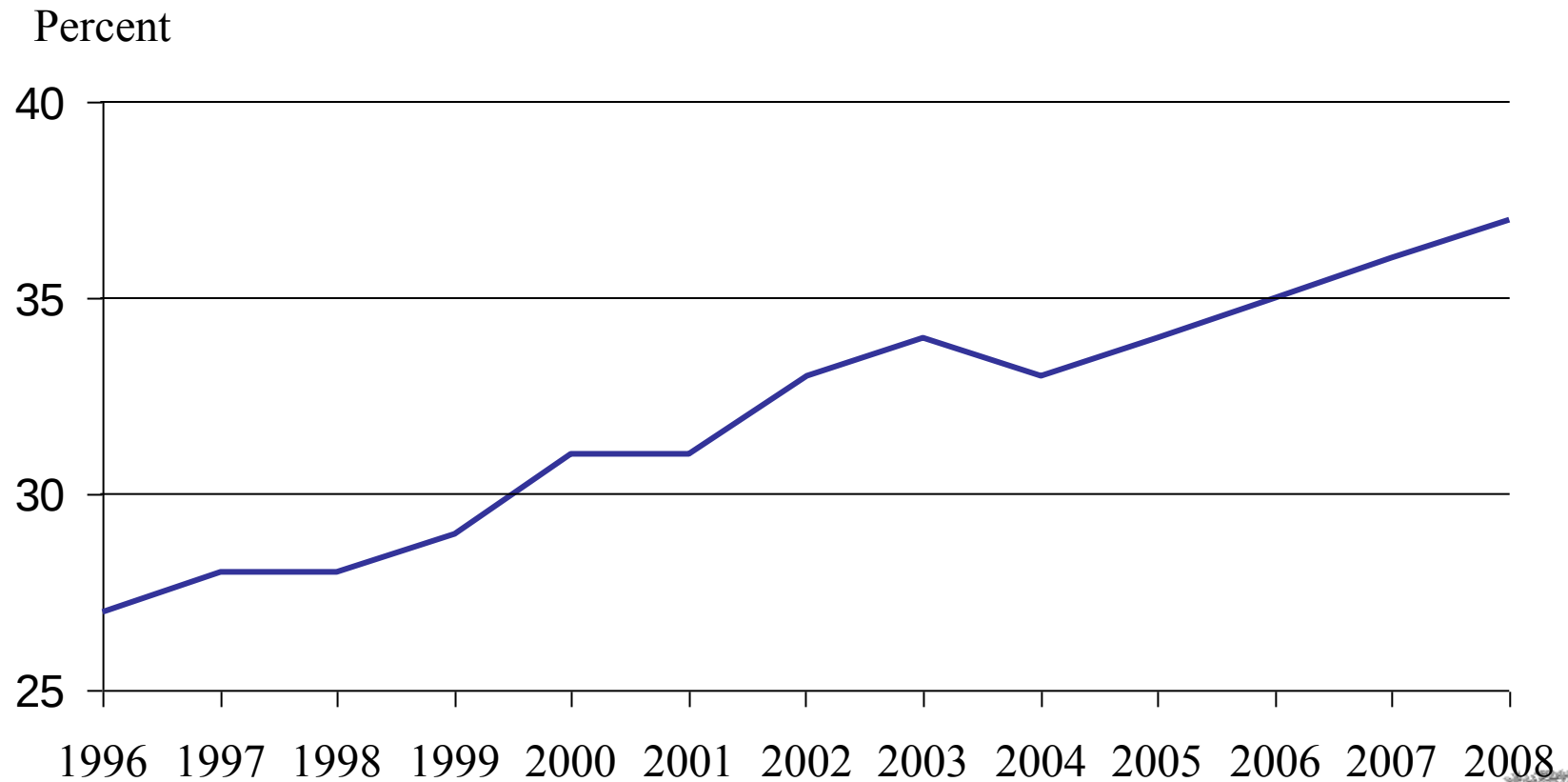
# Increase in R&D spend – not everywhere

## R&D spending, selected countries 1996-2015



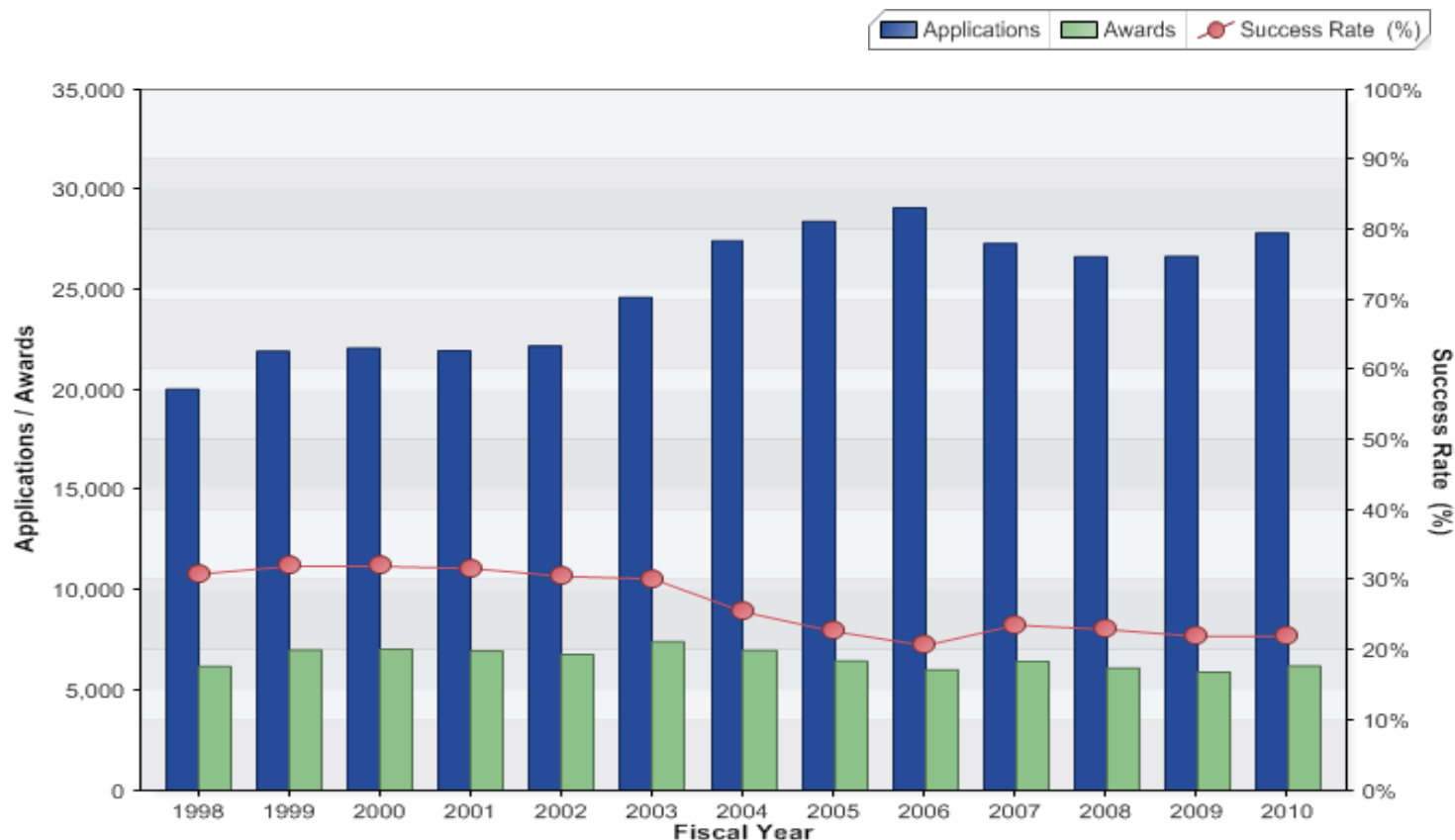
# Increase in global collaboration

**Proportion of the world's papers produced with more than one international author**



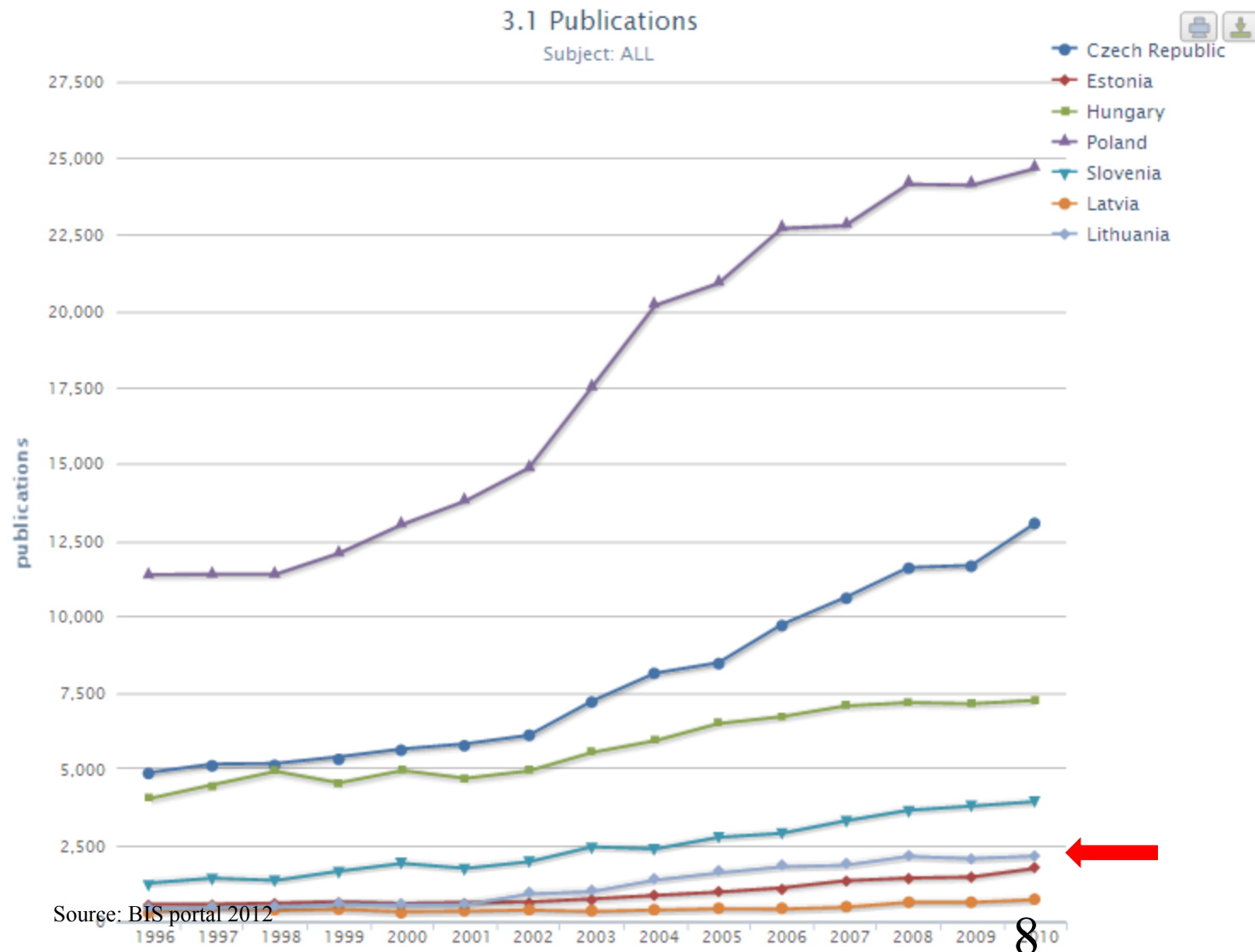
Source: Knowledge, Networks and Nations: Global scientific collaboration in the 21st century, The Royal Society, 2011

# Increasing competition for limited resources



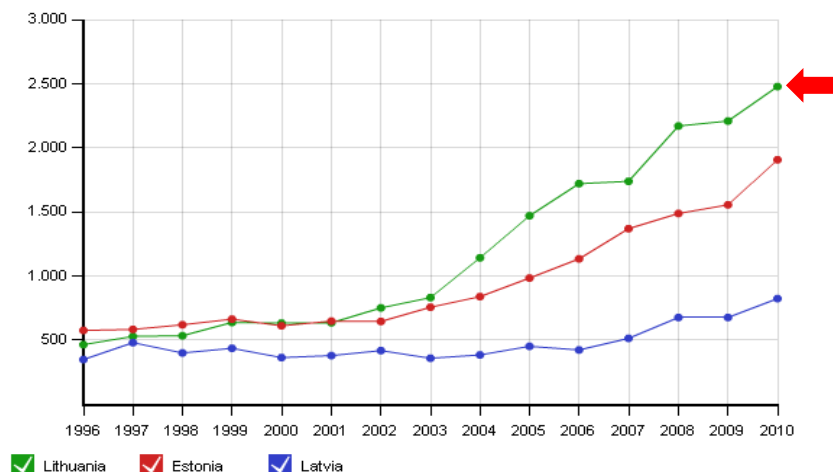
**Increase in applications, but lower awards and success rate**

# Growing number of publications

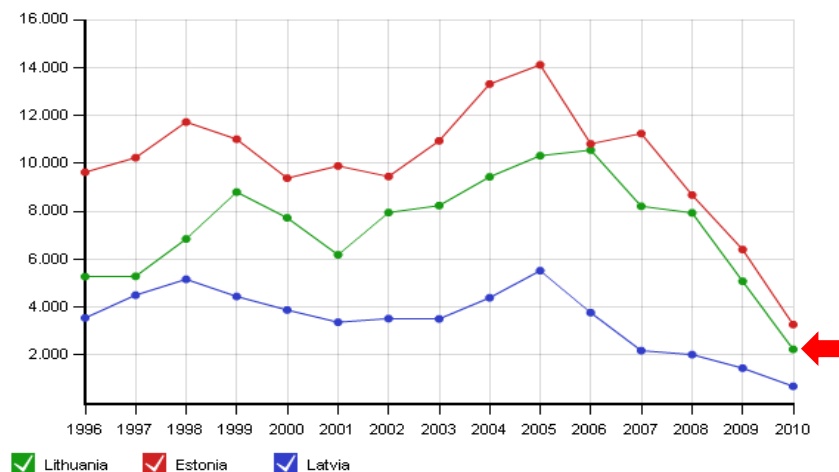


# Lithuanian research output – further work on quality improvement

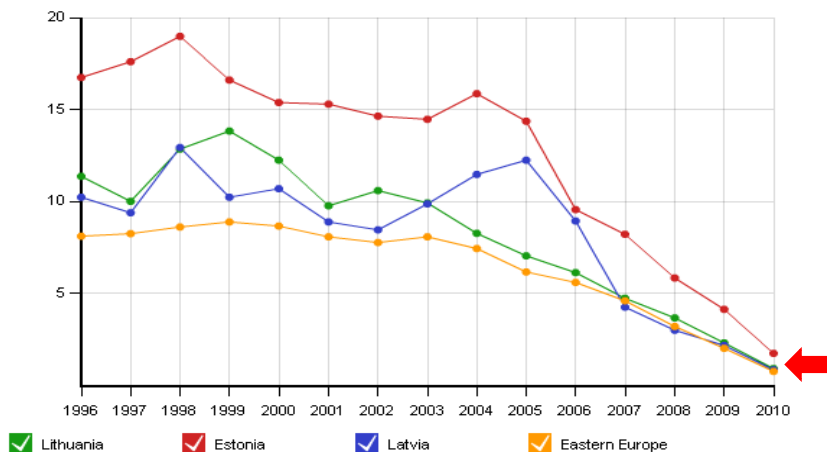
## Documents



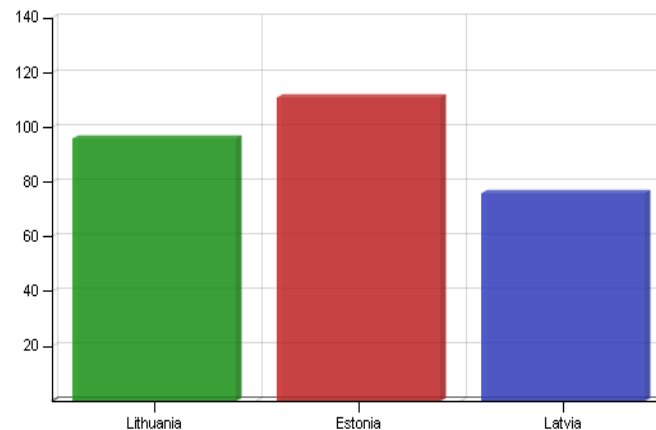
## Citations



## Citations per document

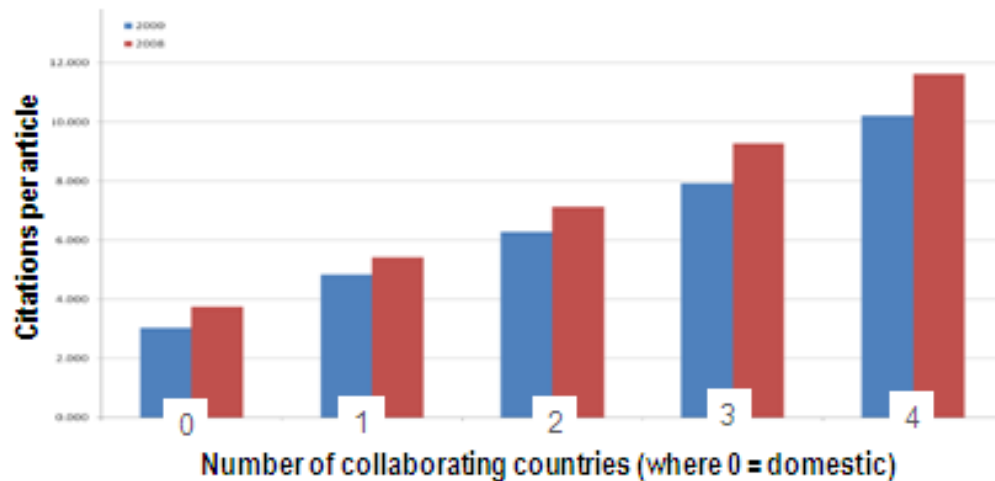


## H - index

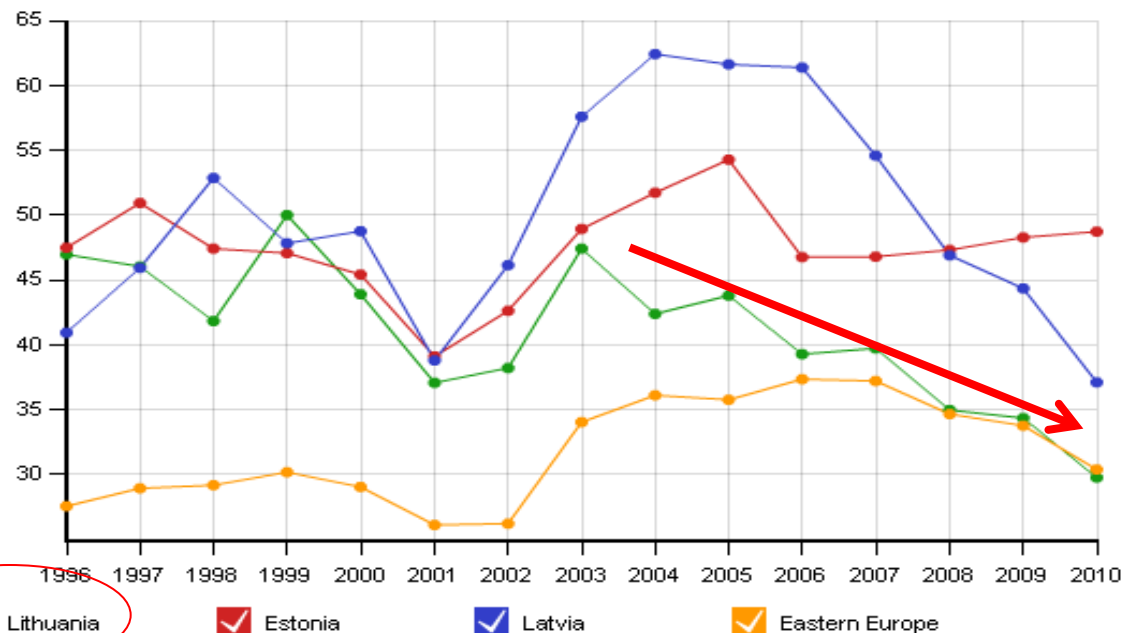


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# International Collaboration is key to high quality



- International scientific collaboration is widely acknowledged as a positive force driving national impact and prestige
- Domestic articles ('0') have no international collaboration partners and have around 3 times fewer citations per article than those with four collaborating countries ('4')



SCImago. (2007). SJR — SCImago Journal & Country Rank.

Retrieved May 09, 2012, from

<http://www.scimagojr.com>



Lithuania



Estonia



Latvia



Eastern Europe



VIER

# Position of Lithuania in EE - Published Docs vs. Cites per Doc

|    | Country            | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  | Russian Federation | 480.665   | 476.490           | 2.456.003 | 737.059        | 5,21                   | 285     |
| 2  | Poland             | 265.139   | 259.850           | 1.853.462 | 496.520        | 7,87                   | 258     |
| 3  | Czech Republic     | 122.379   | 118.930           | 942.579   | 233.542        | 8,82                   | 206     |
| 4  | Hungary            | 89.305    | 86.438            | 923.883   | 160.620        | 11,14                  | 224     |
| 5  | Ukraine            | 88.707    | 88.007            | 344.658   | 98.179         | 3,98                   | 121     |
| 6  | Romania            | 63.809    | 62.975            | 282.393   | 71.226         | 6,04                   | 117     |
| 7  | Slovakia           | 44.051    | 42.903            | 296.161   | 64.999         | 7,32                   | 131     |
| 8  | Croatia            | 41.951    | 40.676            | 215.609   | 52.217         | 5,99                   | 118     |
| 9  | Slovenia           | 38.459    | 37.586            | 285.289   | 61.086         | 8,58                   | 127     |
| 10 | Bulgaria           | 37.286    | 36.609            | 246.242   | 45.286         | 7,20                   | 121     |
| 11 | Belarus            | 20.498    | 20.376            | 92.872    | 19.398         | 4,61                   | 90      |
| 12 | Lithuania          | 17.936    | 17.665            | 110.063   | 26.744         | 8,24                   | 96      |
| 13 | Serbia             | 14.955    | 14.611            | 31.653    | 9.694          | 3,12                   | 42      |
| 14 | Estonia            | 14.366    | 14.106            | 150.084   | 29.699         | 12,63                  | 111     |
| 15 | Latvia             | 7.115     | 7.012             | 51.951    | 8.018          | 8,24                   | 76      |

SJR is developed by:

SCIMAGO  
LAB

Powered by  
SCOPUS™

|    | Country                | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  | Estonia                | 14.366    | 14.106            | 150.084   | 29.699         | 12,63                  | 111     |
| 2  | Hungary                | 89.305    | 86.438            | 923.883   | 160.620        | 11,14                  | 224     |
| 3  | Czech Republic         | 122.379   | 118.930           | 942.579   | 233.542        | 8,82                   | 206     |
| 4  | Slovenia               | 38.459    | 37.586            | 285.289   | 61.086         | 8,58                   | 127     |
| 5  | Lithuania              | 17.936    | 17.665            | 110.063   | 26.744         | 8,24                   | 96      |
| 6  | Latvia                 | 7.115     | 7.012             | 51.951    | 8.018          | 8,24                   | 76      |
| 7  | Poland                 | 265.139   | 259.850           | 1.853.462 | 496.520        | 7,87                   | 258     |
| 8  | Georgia                | 6.082     | 5.939             | 40.074    | 5.305          | 7,67                   | 70      |
| 9  | Armenia                | 7.067     | 6.970             | 50.175    | 9.441          | 7,64                   | 90      |
| 10 | Slovakia               | 44.051    | 42.903            | 296.161   | 64.999         | 7,32                   | 131     |
| 11 | Albania                | 977       | 948               | 5.409     | 571            | 7,28                   | 33      |
| 12 | Bulgaria               | 37.286    | 36.609            | 246.242   | 45.286         | 7,20                   | 121     |
| 13 | Macedonia              | 3.149     | 3.064             | 17.162    | 2.839          | 7,04                   | 48      |
| 14 | Bosnia and Herzegovina | 2.669     | 2.608             | 8.694     | 1.449          | 6,66                   | 36      |
| 15 | Romania                | 63.809    | 62.975            | 282.393   | 71.226         | 6,04                   | 117     |
| 16 | Croatia                | 41.951    | 40.676            | 215.609   | 52.217         | 5,99                   | 118     |

Period 1996-2010

SCImago. (2007). SJR —  
SCImago Journal & Country Rank.  
Retrieved May 09, 2012, from  
<http://www.scimagojr.com>



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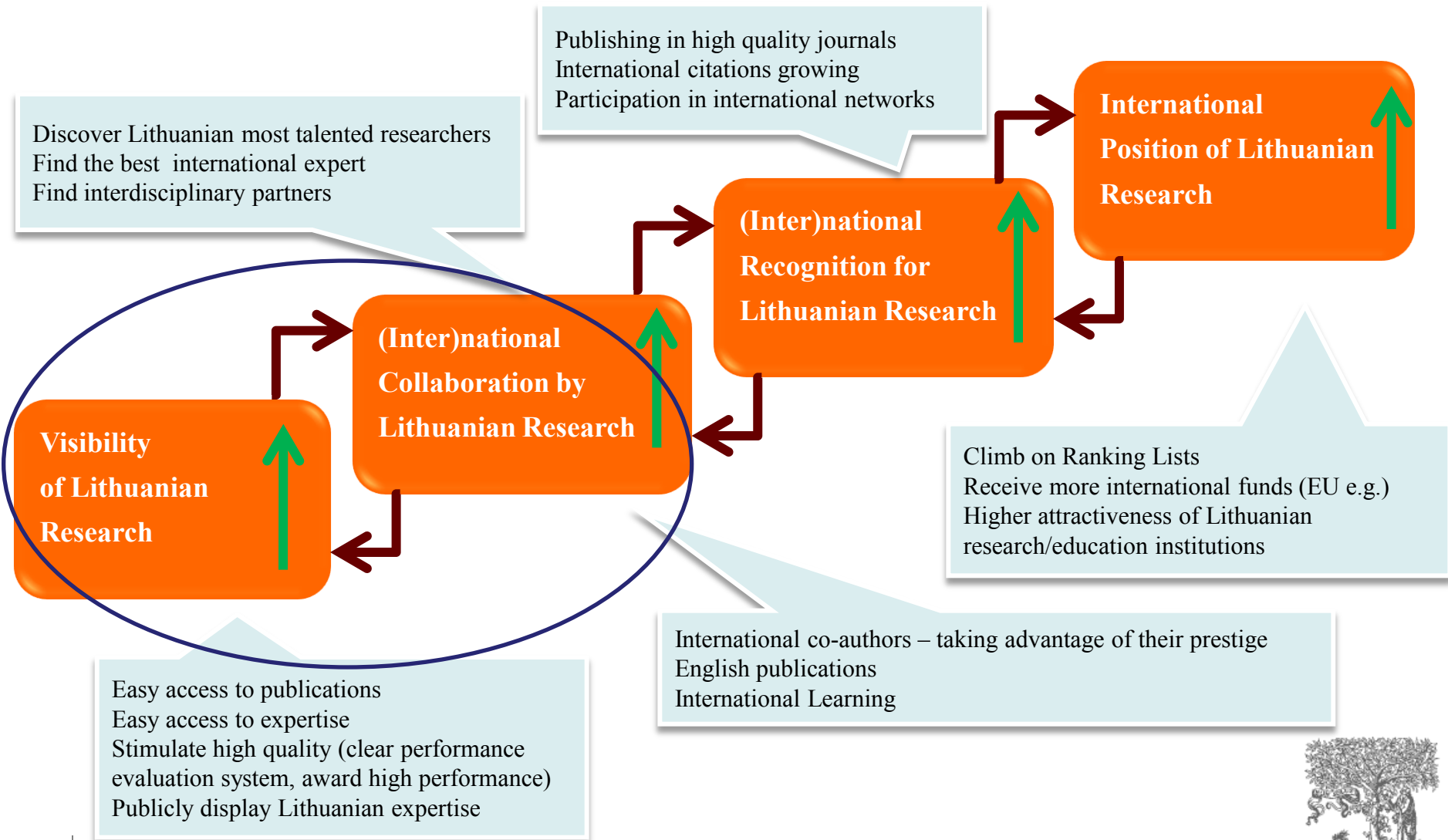
# What are the goals of Lithuanian Science?

- ? **Better quality** - Better access to high quality content, more international publications and higher number of citations
- ? **Improve research evaluation** - Introduce efficient and effective system of research evaluation, increase the level of financing
- ? **Promote Lithuania science worldwide** - Increasing visibility of output, performance, and expertise
- ? **Stimulate international collaboration**
- ? **Improve quality of Lithuanian journals** – Promote publications in English and improve peer review process
- ? **International funds** – Improve success rate in applying for international funds and grow Lithuanian participation in EU projects



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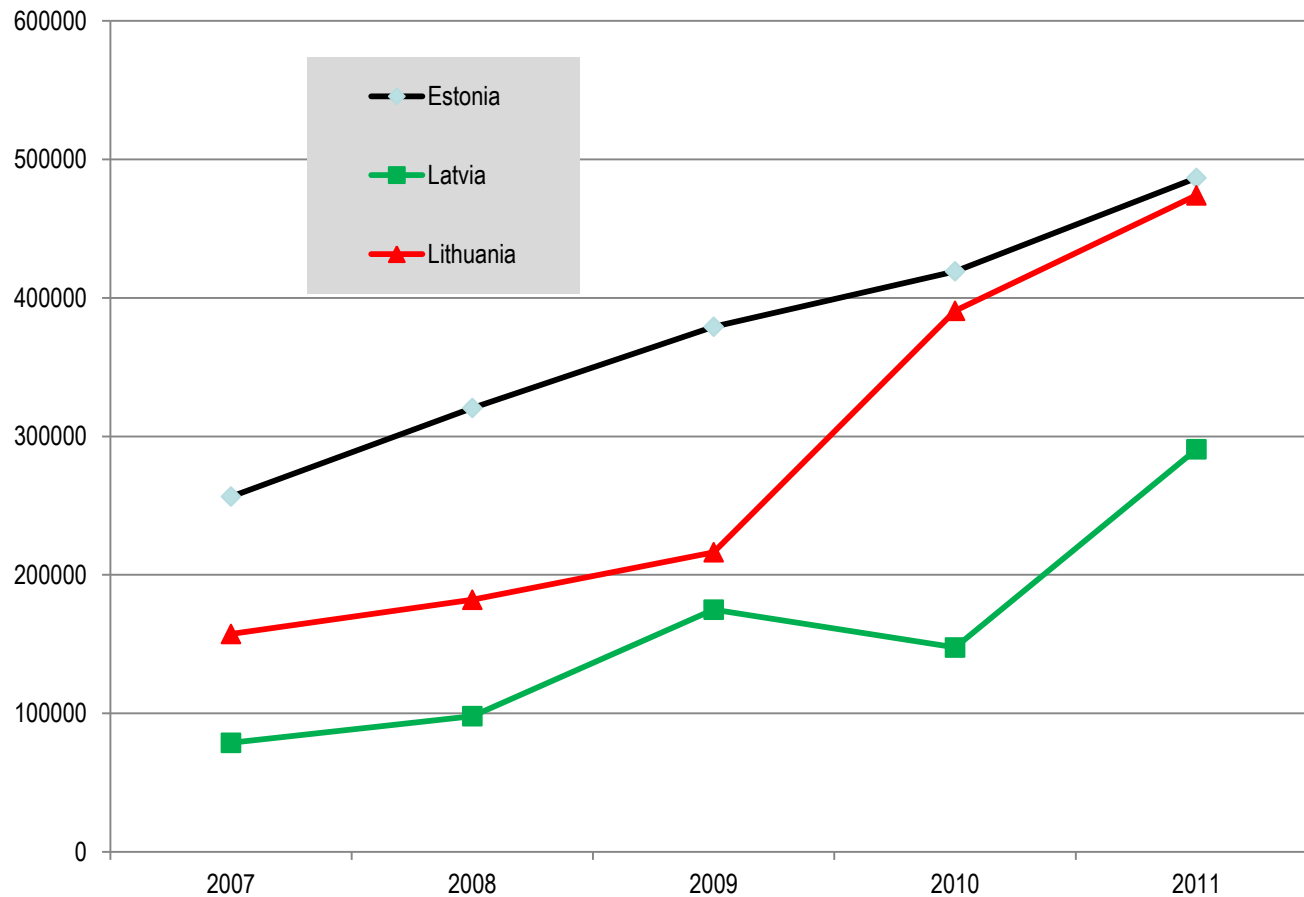
# How to improve the Position of Lithuanian Research?



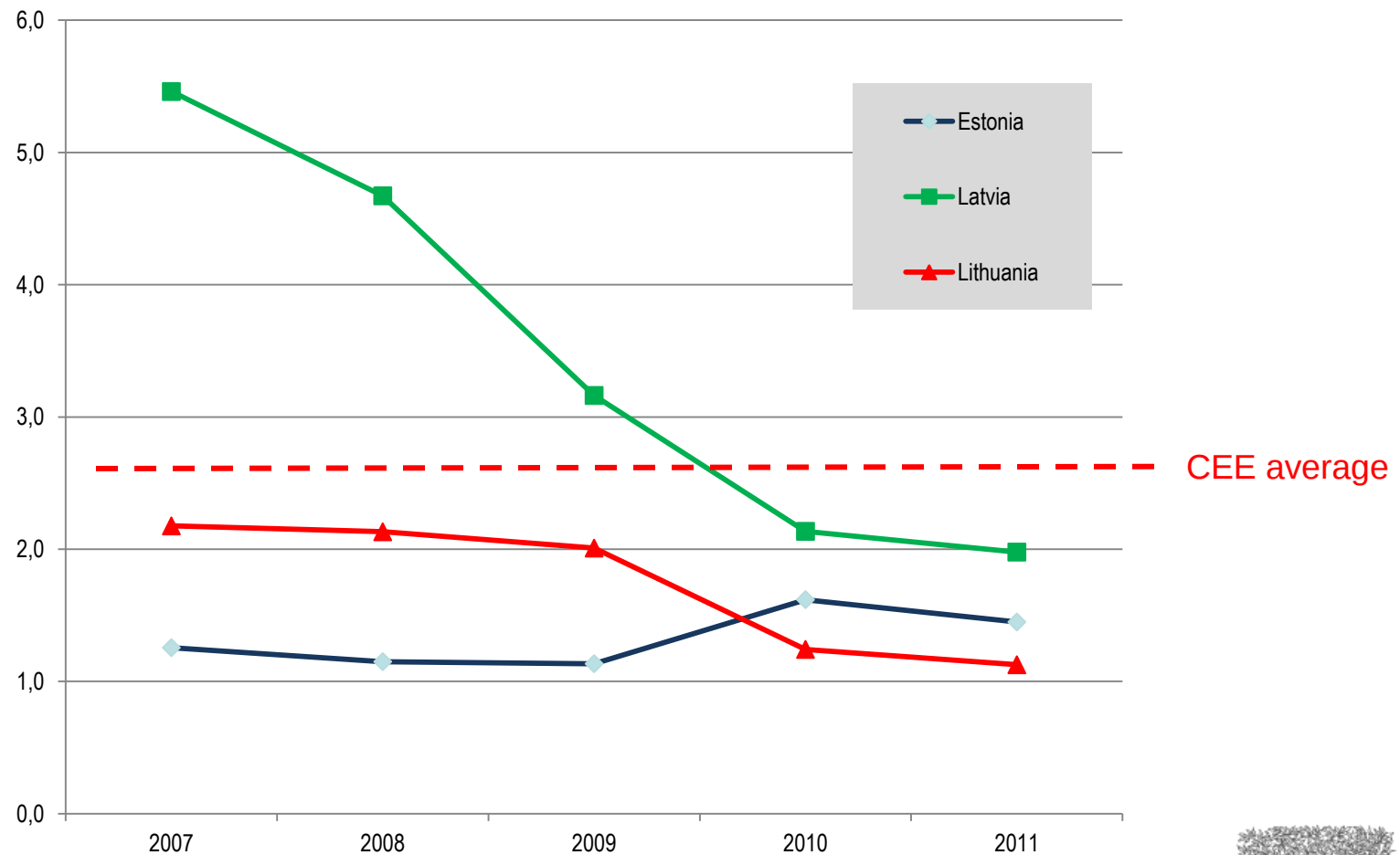
# Science Direct



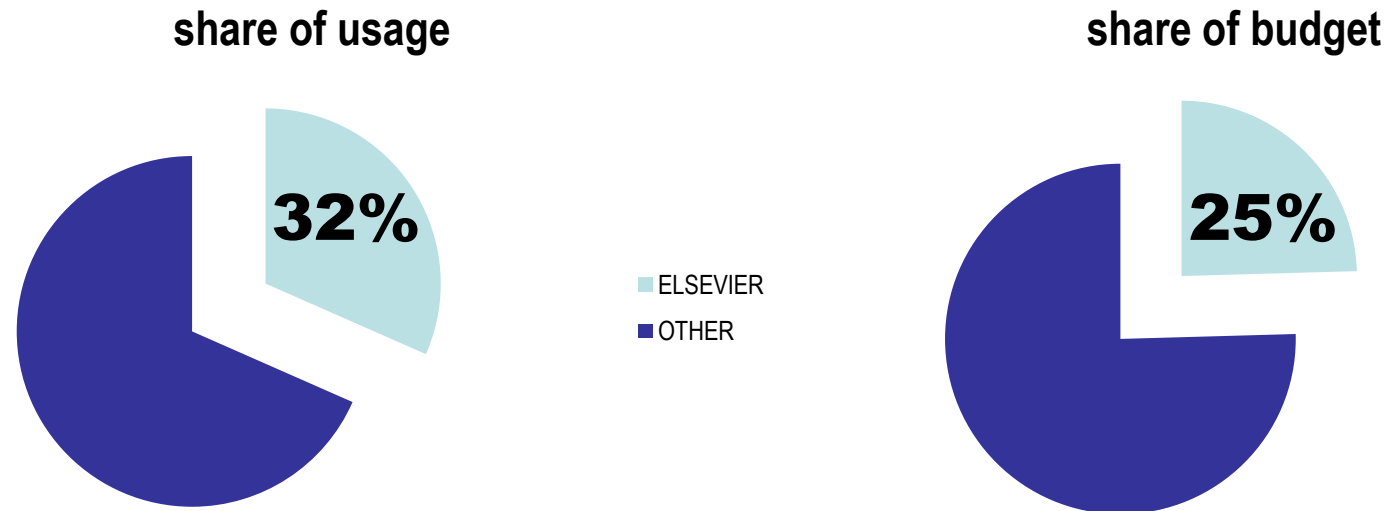
# ScienceDirect usage grew by 21% in 2011



# Cost per article is low and declining



# Science Direct share of budget lower than contribution:



NOTE: This slide was corrected after conference with data incl. VAT

# What is next?



# eBooks?

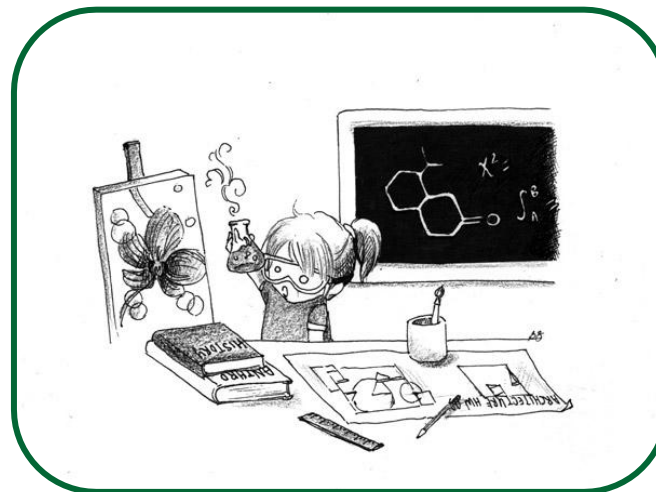


# 1. Major Reference Works

- **Description:** MRWs are multi-volume works that provide **foundational content**—that is, comprehensive and validated knowledge about a subject area for non-experts

Essential part of SD eBooks portfolio:

- ❖ 12% of book content on SD
- ❖ 16% of online book usage
- ❖ Cover all areas of science
- ❖ 120 titles (400 volumes)
- ❖ 8 to 10 new titles per year



92% of researchers regularly perform research outside their main area of expertise (*source: 2009 Elsevier survey of librarians and users*)

Scientists spend on average 10.9 hours a week gathering and analyzing information – over a quarter of their time. But their search failure rate is almost 40% when using external internet searches such as Wikipedia. (Outsell STM End User Study, 2009)



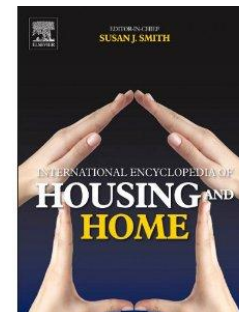
## New MRW titles (2012)

### 3 Encyclopedias

International Encyclopedia of Housing and Home, Seven-Volume Set

Encyclopedia of Human Behavior

Encyclopedia of Applied Ethics



### 8 Comprehensives

Comprehensive Nuclear Materials, Five-Volume Set

Comprehensive Renewable Energy

Comprehensive Chirality

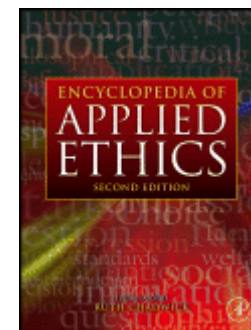
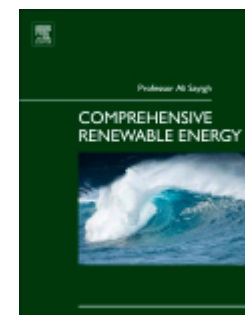
Treatise on Estuarine and Coastal Science

Comprehensive Biophysics

Polymer Science: A Comprehensive Reference

Comprehensive Polymer Science

Comprehensive Sampling and Sample Preparation



## 2. eBooks

Around 9500 eBooks in 25 subject areas\*

### S&T collection

Life Sciences  
Physical Sciences and Engineering  
Health Sciences  
Social Sciences (Finance, Psychology)



Highly interdisciplinary collections, providing in-depth analysis about the most current and critical issues in a field, as well as covering key theory providing a sound basis of understanding for all involved in a specific field.

### HS Collection

Clinical Medicine  
Health Professions  
Veterinary Medicine  
Clinical Dentistry



A selection of books published under the W.B. Saunders, Mosby, Churchill Livingstone and Hanley & Belfus imprints. Collections include several Doodys 5 star titles.

\*(excluding discontinued Business & Management collection)

# 3. Handbook Series

Comprehensive Analytical Chemistry

Handbook of Numerical Analysis

Handbook of Statistics

Handbook of Magnetic Materials

Handbook on the Physics & Chemistry of Rare Earths

Handbook in Economics Series (28 subseries)



## Recent volumes

*Handbook of the Economics of Innovation*, Vol. 1 and 2

*Handbook of the Social Choice and Welfare*, Vol. 2

*Handbook of Labor Economics*, Vol. 4A and 4B

*Handbook of the Economics of Education*, Volume 3

*Handbook of Monetary Economics*, Volumes 3A and 3B

N.B. Handbook of Economics is the Elsevier Series with more Nobel Laureates as editors and contributors than any other economics series by any other publisher.

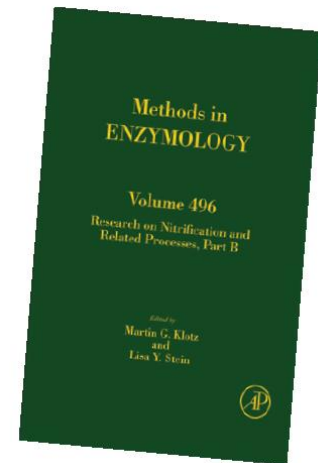
# 4. Book Series

3 distinctive physical sciences packages

Chemistry  
Physics & Astronomy  
Engineering

6 distinctive life sciences packages

Agricultural & Biological Sciences  
Immunology and Microbiology  
Pharmacology, Toxicology and Pharmaceutical  
Science  
Neuroscience  
Psychology  
Biochemistry, Genetics & Molecular Biology



The most cited Book Series on ScienceDirect just published the 500th volume  
(<http://www.elsevierdirect.com/article.jsp?pageid=7754#500th>)

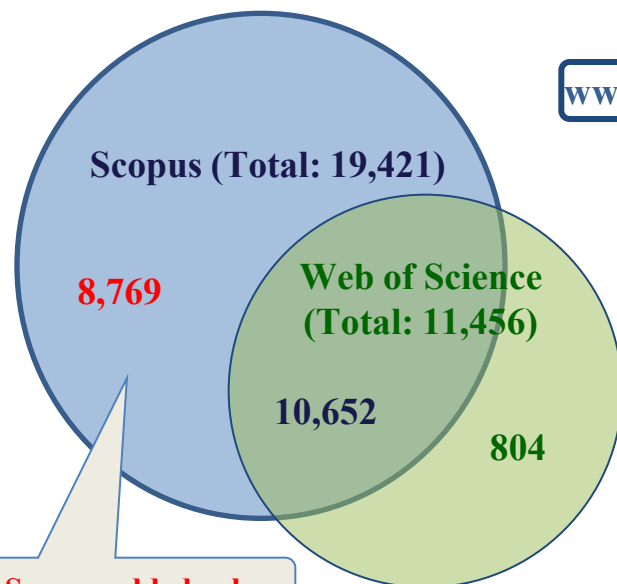


# SCOPUS?



# What is the benefit to use Scopus data for evaluation?

[www.jisc-adat.com](http://www.jisc-adat.com)



Scopus added value

## Coverage of Lithuanian titles

Scopus – 24 titles, 23 active  
WoS – 9 titles, 9 active

| Global share of languages | Scopus     | WoS        | Scopus advantage |
|---------------------------|------------|------------|------------------|
| English publications      | 37,525,115 | 46,178,837 |                  |
| non-English publications  | 8,534,192  | 4,587,595  | 186%             |
| Total                     | 46,059,307 | 50,766,432 |                  |
| % non-English of total    | 19%        | 9%         |                  |
| Date: October 12, 2011    |            |            |                  |

# Breadth of coverage across subject areas

## Social Sciences 6,250

- Psychology
- Economics
- Business
- A&H
- etc.,

## Health Sciences 5,950

- (100% Medline)
- Nursing
- Dentistry
- etc.,

## Physical Sciences 5,300

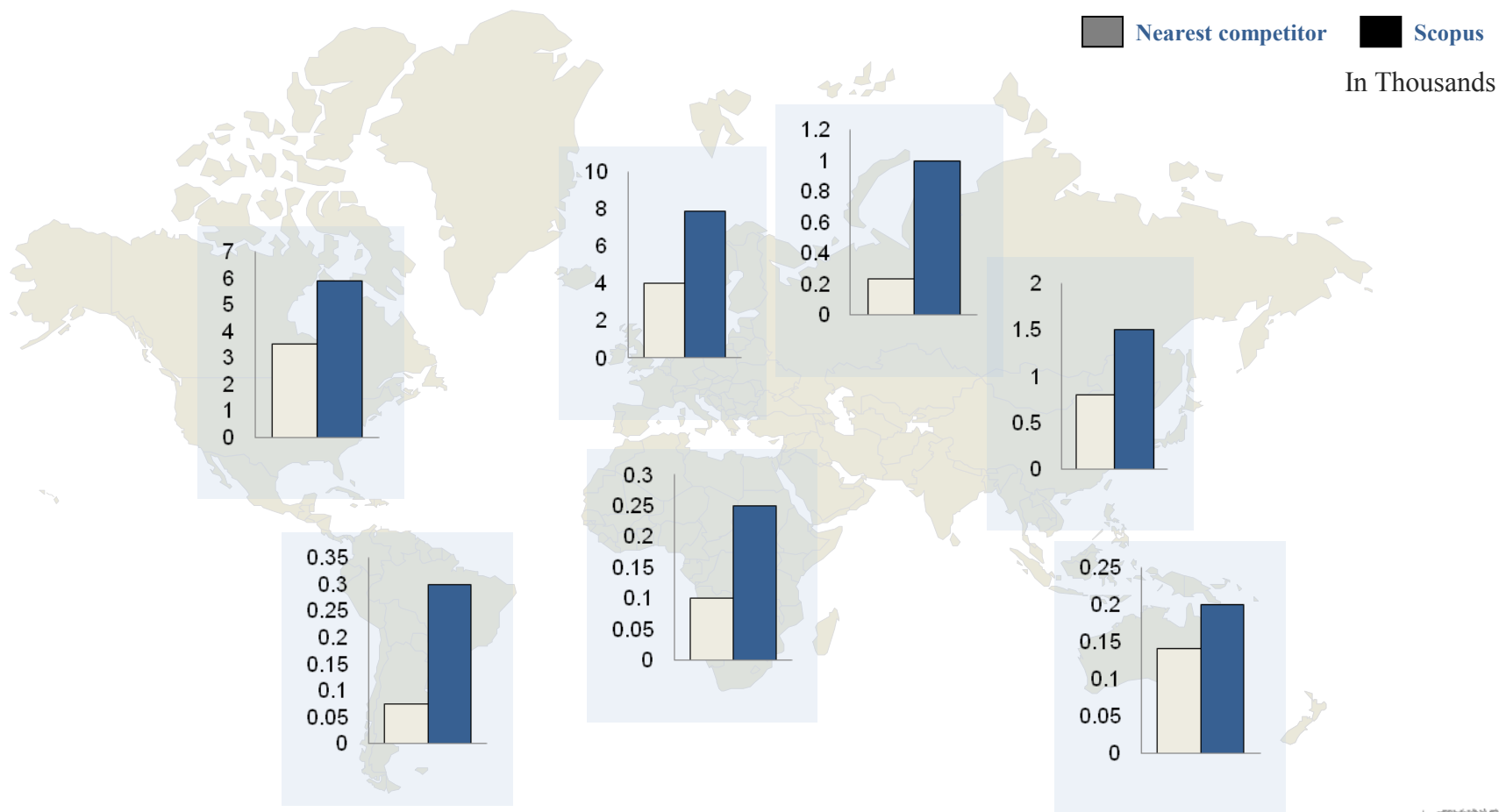
- Chemistry
- Physics
- Engineering
- etc.,

## Life Sciences 3,700

- Neuroscience
- Pharmacology
- Biology
- etc.,

**More than 18,500 titles in Scopus, titles can be in more than one subject area**

# Breadth of coverage across geographical areas



**Wider coverage gives a more accurate picture of the research landscape**

# Scopus selection criteria - quantitative and qualitative measures

## Quality selection by an independent, international board

|                           |                                                                                                                                                                                                                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Journal policy</b>     | <ul style="list-style-type: none"><li>• English language abstracts available</li><li>• All cited references in Roman alphabet</li><li>• Convincing editorial concept/policy</li><li>• Level of peer-review</li><li>• Diversity in provenance of editors</li><li>• Diversity in provenance of authors</li></ul> |
| <b>Quality of content</b> | <ul style="list-style-type: none"><li>• Academic contribution to the field</li><li>• Clarity of abstracts</li><li>• Conformity with journal's aims &amp; scope</li><li>• Readability of articles</li></ul>                                                                                                     |
| <b>Citedness</b>          | <ul style="list-style-type: none"><li>• Citedness of journal articles in Scopus</li><li>• Citedness of editors in Scopus</li></ul>                                                                                                                                                                             |
| <b>Regularity</b>         | <ul style="list-style-type: none"><li>• No delay in publication schedule</li></ul>                                                                                                                                                                                                                             |
| <b>Accessibility</b>      | <ul style="list-style-type: none"><li>• Content available online</li><li>• English-language journal home page</li><li>• Quality of home page</li></ul>                                                                                                                                                         |

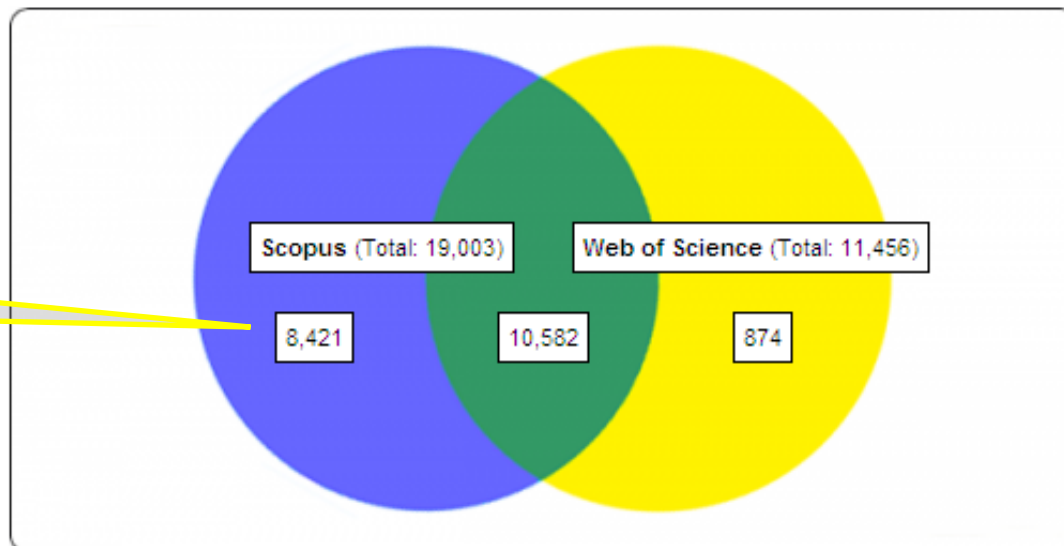
### Eligibility

- Peer-review
- English abstracts
- Regular publication



# Broader coverage than nearest peer

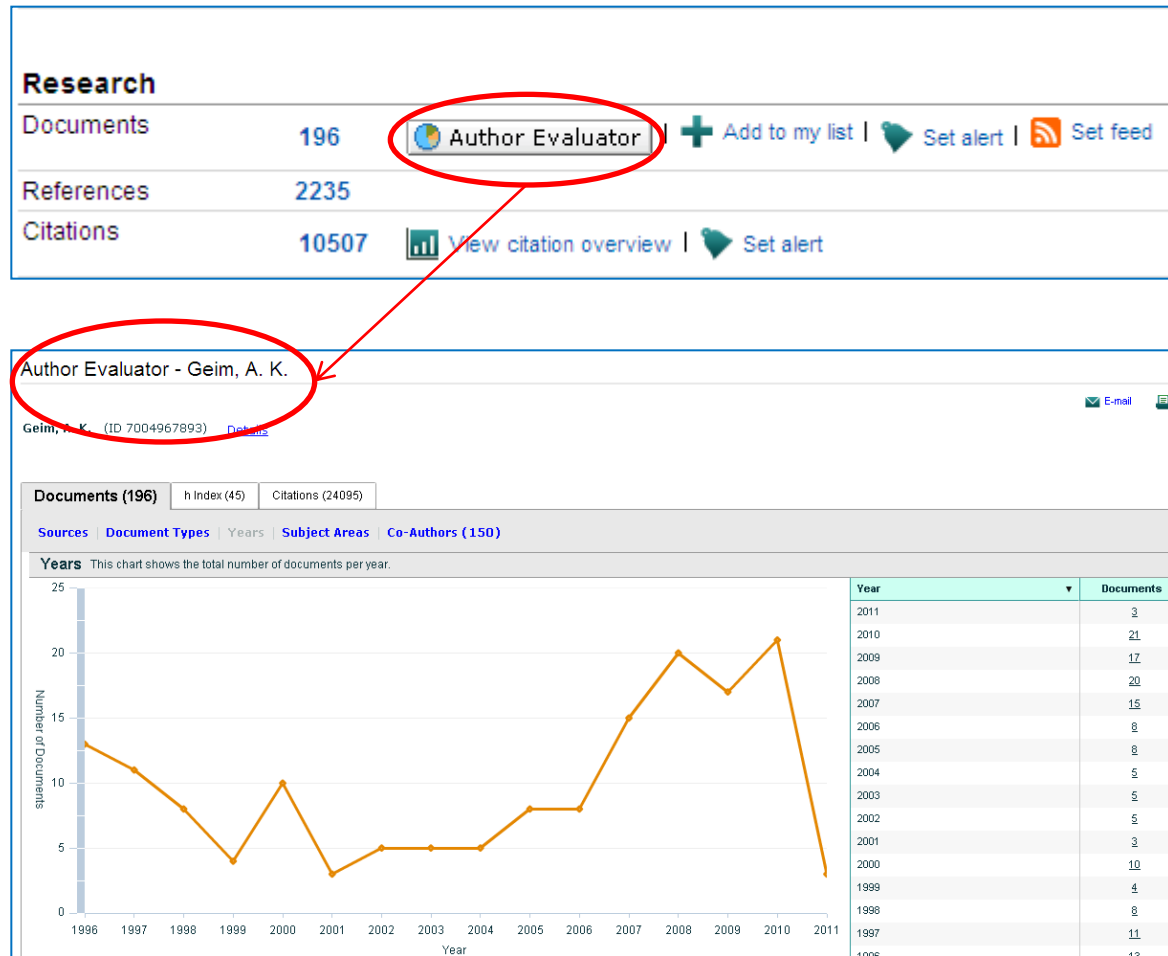
“The Scopus surplus”



[www.jisc-adat.com](http://www.jisc-adat.com)

| Global share of languages | Scopus     | WoS        | Scopus advantage |
|---------------------------|------------|------------|------------------|
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| Date: October 12, 2011    |            |            |                  |

# SciVerse Scopus *author evaluator*



# SciVerse Scopus affiliation profiling

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## Vilnius University

[Find potential affiliation matches](#)

|                |                                                         |
|----------------|---------------------------------------------------------|
| Name           | Vilnius University                                      |
| Affiliation ID | 60059987                                                |
| Address        | 3 Universiteto street<br>Vilnius , Vilnius<br>Lithuania |
| Name variants  | Vilnius University                                      |

### Research

|                |       |                                                                                         |
|----------------|-------|-----------------------------------------------------------------------------------------|
| Documents      | 6,552 | <a href="#">+ Add to my list</a>   <a href="#">Set alert</a>   <a href="#">Set feed</a> |
| Authors        | 2,550 |                                                                                         |
| Web results    | 3,690 |                                                                                         |
| Patent results | 4     |                                                                                         |
| Sources        | 256   | Lithuanian Mathematical Journal                                                         |
|                | 130   | Medicina Kaunas Lithuania                                                               |
|                | 110   | Proceedings of SPIE the International Society for Optical Engineering                   |
|                | 92    | Applied Physics Letters                                                                 |
|                | 82    | Baltic Astronomy                                                                        |

[View more...](#)

[Find potential affiliation matches](#)

### Documents alert

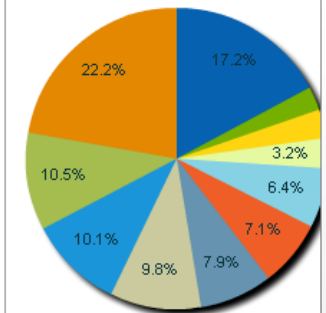
Inform me when new documents associated with this affiliation are published in Scopus:

[Set alert](#)

[Set feed](#)

### Subject areas

[Pie chart](#) | [Tab](#)



**Physics and Astronomy**  
**Materials Science**  
**Mathematics**  
**Chemistry**  
**Medicine**

Affiliation details include the affiliation ID, name variations, address information, research areas, documents published, sources the organization has published in, and collaborating affiliations.



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# SciVerse Scopus *citation tracker*

You can include up to 5000 documents in a **Citation Tracker**.

Overview options

Exclude from citation overview:

☐ Self citations of selected author
 ☐ Self citations of all authors

Sort documents

Year descending

▼

Date range

1996

▼

to

2011

▼

Update overview

196 Cited Documents

Save list

Delete

Total

Citations

<1996

1996

1997

1998

1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

2010

2011

Subtotal

0

111

86

119

119

180

157

170

141

172

200

557

1689

3299

5366

8727

3694

24787

189

☐ 1992 Optical suppression of ionized i...

0

190

☐ 1992 Asymmetric scattering and diffr...

9

3

7

3

9

5

4

1

4

1

1

1

1

2

4

1

56

191

☐ 1992 Breakdown of universal scaling o...

5

2

2

2

2

1

1

1

16

192

☐ 1992 Vector-asymmetry of the quantum ...

1

2

3

193

☐ 1992 Collective effects in vortex mov...

2

1

2

1

2

8

194

☐ 1992 Single magnetic flux tube in a m...

2

1

1

1

5

195

☐ 1992 Non-local magnetoresistance at t...

0

196

☐ 1991 New nonlocal magnetoresistance e...

5

2

2

1

1

11

# New metrics are now available

## SCImago Journal Rank – SJR

- **Prestige metric** – similar to Google PageRank
- **Citations are weighted depending on the status of the source they come from**
- Developed by SCImago – Felix de Moya

## Source-Normalized Impact per Paper - SNIP

- **SNIP measures contextual citation impact**
- **Every citation is counted as 1 citation** – similar to Impact Factor
- **SNIP is field normalized, dependent on likelihood of citation in subject field of source**
- Developed by Henk Moed, CWTS

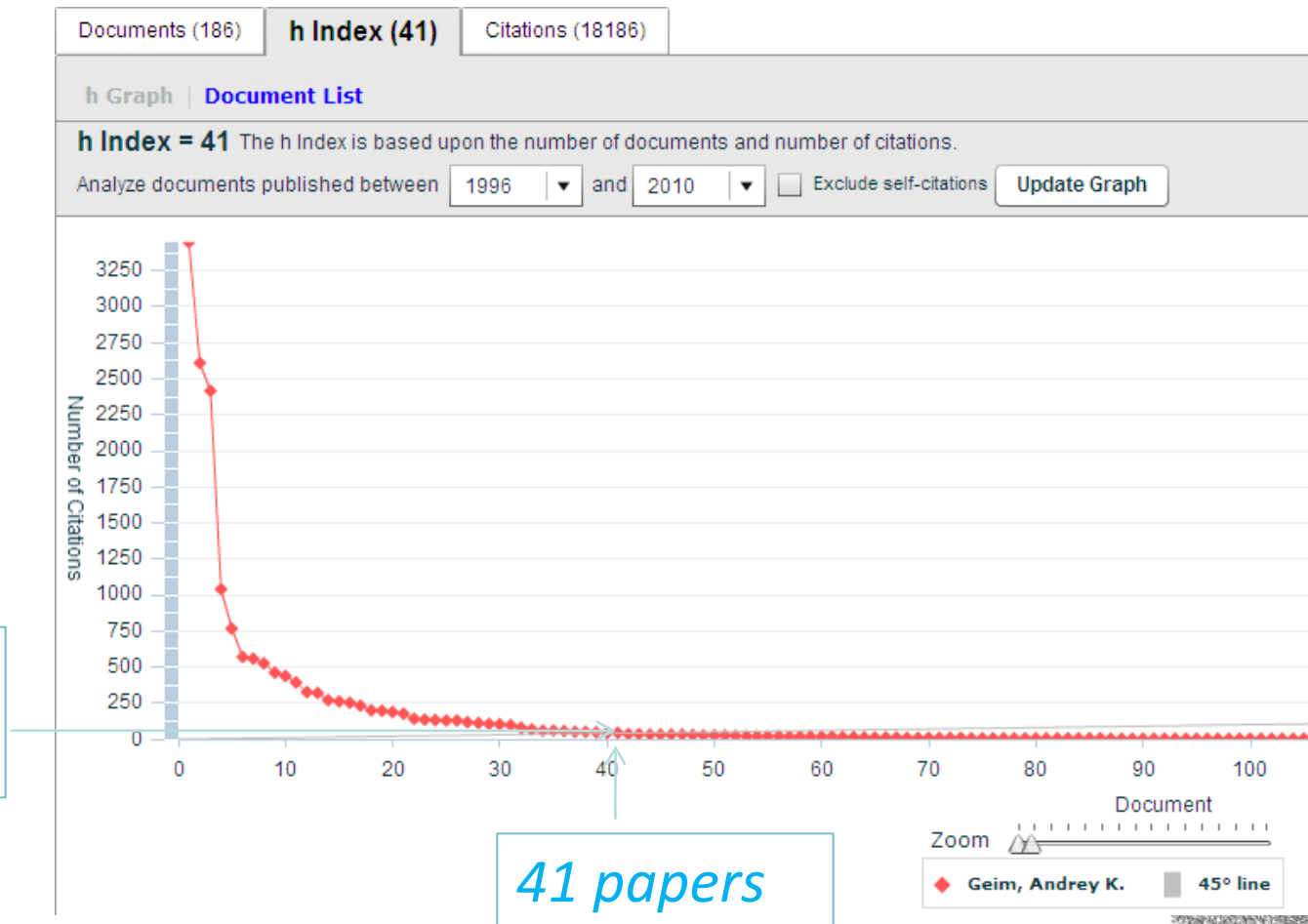


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# H-index – growing role

A scholar with an index of  $h$  has published  $h$  papers each of which has been cited by others at least  $h$  times

*cited 41 times or more*



# THANK YOU

**Piotr Gołkiewicz, Product Sales Manager, Central and Eastern Europe**  
**Igor Hundziak, Country Manager Poland and Baltic States**

