



*Journal Selection and Editorial Development:
Examination of Lithuanian Research and
Journals in the Web of Science Core collection*

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Agenda

- The **Web of Science** content
- The **Web of Science Core Collection**: content selection, metadata quality, consistency
- Content **expansion** project
- The use of the **Web of Science Core collection** data for research performance measurements
- First level study of Lithuanian research and publishing activities using **Incites**

Web of Science by *Number of Journals*

Web of Science

90 MILLION UNIQUE RECORDS, OVERALL

Journals

22,000

51 Lithuanian Journals (29 cover to cover)

3,162 Open Access journals

Books

62,000

Conference Proceedings

8.2 Million+

Patents

51.8 Million+
27 M Families

Enriched and indexed by in-house qualified editors

Data Studies & Data Sets

4 Million +

Unique

Web of Science Core Collection: *Objective and unique* content selection process

A set of criteria developed across 50 years

Journal
Publishing
Standards

Editorial
Content

International
Diversity

Citation
Analysis

12700 selected journals

12000 annual selected
conferences

56000 selected books

Core coverage in Web of Science Core Collection is not static !



Independent selection process

THOMSON REUTERS Web of Science Core Collection:

16 **full time** editors with multi languages

Biweekly meetings **10-12% acceptance rate**

They DO NOT publish any paper or edit any journal.

NO AGREGATION OF THIRD PARTY CONTENT, ALL MATERIALS ARE INDEXED DIRECTLY FROM THE SOURCE (Publishers) .

This also strengthens the consistency of our metadata capture, Web of Science does not inherit the weaknesses (*e.g. missing affiliations in Medline*) or third party databases

Citation Depth

Web of Science Core Collection: 58 Million records with **FULL** cited references. (**1 Billion**)

1900

1970

1996

2015

27 Million records for that period with **COMPLETE** cited references

Scopus: 54 Million records with **PARTIAL** cited references.

1900

1970

1996

2015

NO Cited reference

Target: 8M for that period with cited references

Metadata *quality*

Effects of beta-glucans on the immune system.

By: Akramiene, Dalia; Kondrotas, Anatolijus; Didziapetriene, Janina; Kevelaitis, Egidijus

Medicina (Kaunas, Lithuania)

Volume: 43 Issue: 8 Pages: 597-606

Published: 2007

Medline record, only one affiliation

Abstract

Beta-glucans are naturally occurring polysaccharides. These glucose polymers are constituents of the cell wall of certain pathogenic bacteria and fungi. The healing and immunostimulating properties of mushrooms have been known for thousands of years in the Eastern countries. These mushrooms contain biologically active polysaccharides that mostly belong to group of beta-glucans.

Author Information

Address: Department of Physiology, Kaunas University of Medicine, Kaunas, Lithuania. dalia.akramiene@takas.lt

Citation Network

75 Times Cited

52 Cited References

[View Related Records](#)

 [View Citation Map](#)

 [Create Citation Alert](#)

(data from Web of Science™ Core Collection)

All Times Cited Counts

80 in All Databases

75 in Web of Science Core Collection

59 in BIOSIS Citation Index

3 in Chinese Science Citation Database

0 in Data Citation Index

0 in SciELO Citation Index

Medicina (Kaunas) 2007; 43(8)

597

APŽVALGINIS STRAIPSNIS

Effects of β -glucans on the immune system

Dalia Akramienė, Anatolijus Kondrotas, Janina Didžiapetrienė¹, Egidijus Kėvelaitis

Department of Physiology, Kaunas University of Medicine,

¹Institute of Oncology, Vilnius University, Lithuania

Metadata *quality*

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Medicina (Kaunas, Lithuania)

Volume: 43 Issue: 8 Pages: 597-606

Published: 2007

Abstract

Beta-glucans are natural pathogenic bacteria and years in the Eastern countries.

Author Information

Reprint Address: Akramiene, D (reprint author)

+ Kaunas Univ Med, Dept Physiol, A Mickeviciaus 9, LT-44307 Kaunas, Lithuania.

Addresses:

- [1] Kaunas Univ Med, Dept Physiol, LT-44307 Kaunas, Lithuania

Organization-Enhanced Name(s)

Kaunas University of Medicine

Lithuanian University of Health Sciences

- [2] Vilnius Univ, Inst Oncol, Vilnius, Lithuania

Organization-Enhanced Name(s)

Vilnius University

E-mail Addresses: dalia.akramiene@takas.lt

This Web of Science Core Collection does not miss the affiliation because we do not aggregate any third party database

Citation Network

75 Times Cited

52 Cited References

[View Related Records](#)

[View Citation Map](#)

[Create Citation Alert](#)

(data from Web of Science™ Core Collection)

All Times Cited Counts

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Most Recent Citation

Medicina (Kaunas) 2007; 43(8)

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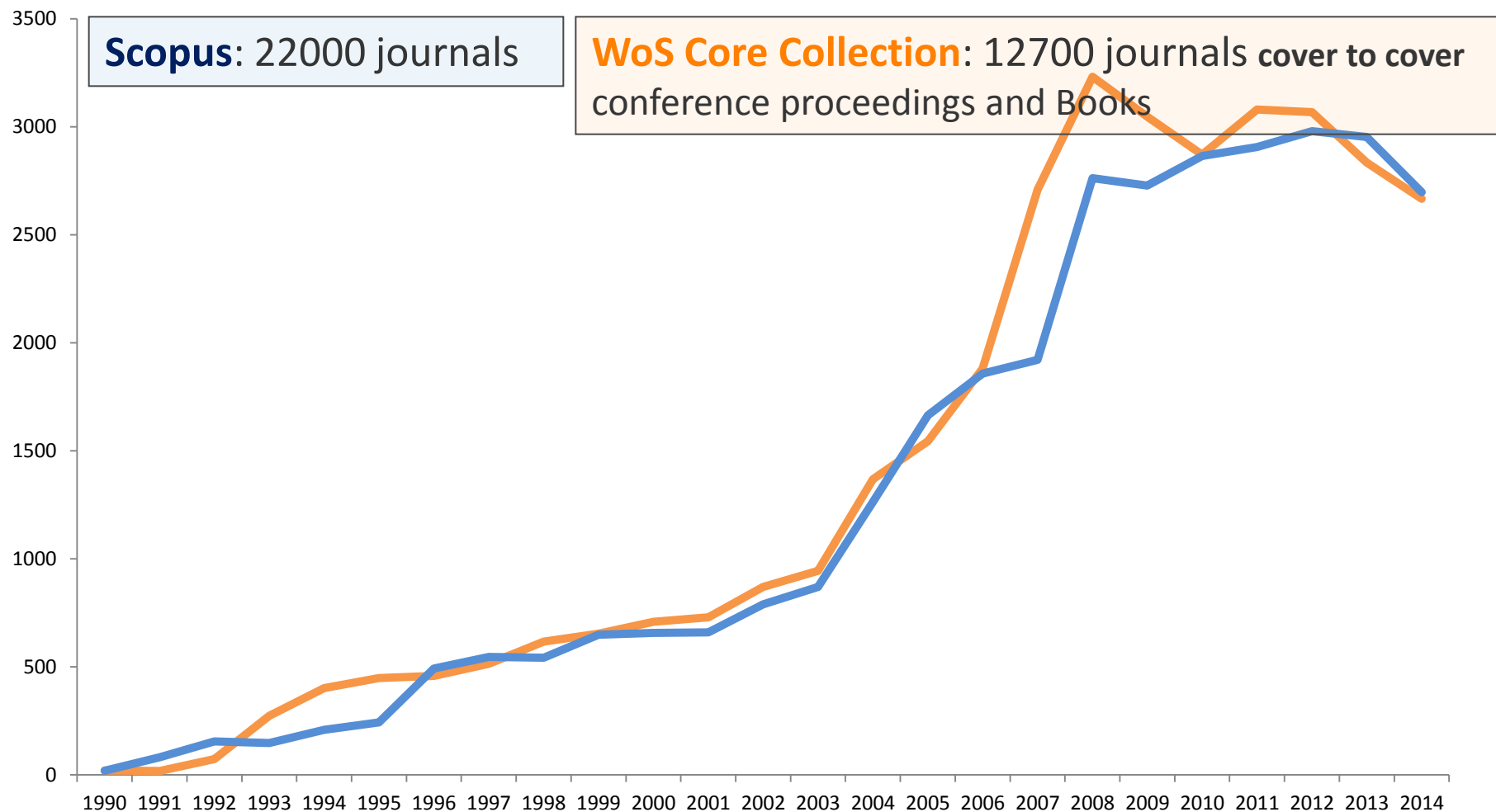
Data Quality (Disambiguation of institutions)

5000+ institutions
manually unified

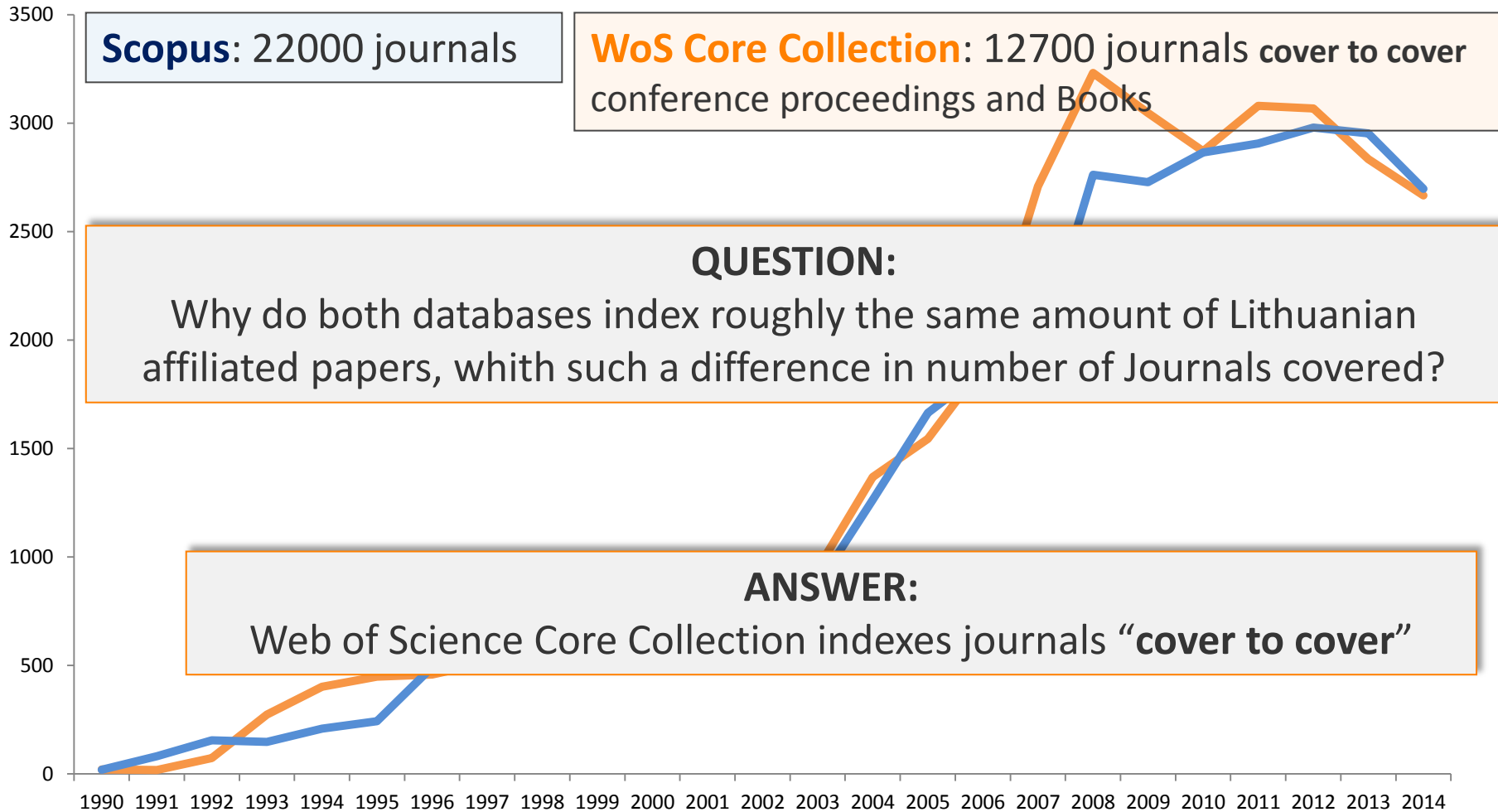
VILNIAUS UNIV
VILNIUS BIOCHEM INST
VILNIUS BIOLTECHNOL INST
VILNIUS BIOTECHNOL FERMENTAS INST
VILNIUS INST BIOCHEM
VILNIUS INST MATH CYBERNET
VILNIUS INST MATH INFORMAT
VILNIUS INST THEORET PHYS ASTRON
VILNIUS MATH CYBERNET INST
VILNIUS MATH INFORMAT INST
VILNIUS STATE UNIV

Vilnius university
Kaunas university of technology
Vilnius gediminas technical university
Lithuanian university of health sciences
Kaunas university of medicine
Center for physical sciences technology lithuania
Vytautas magnus university
Nature research center lithuania
Klaipeda university
Lithuanian research centre for agriculture & forestry
Vilnius university hospital santariskiu klinikos
Aleksandras stulginskis university
Lithuanian university of educational sciences
Lithuanian energy institute
Mykolas romeris university
Lithuanian sports university
State research institute centre for innovative medicine
Siauliai university
Lithuanian culture research institute
Hospital of lithuanian university of health sciences
kauno klinikos
Lithuanian institute of agrarian economics

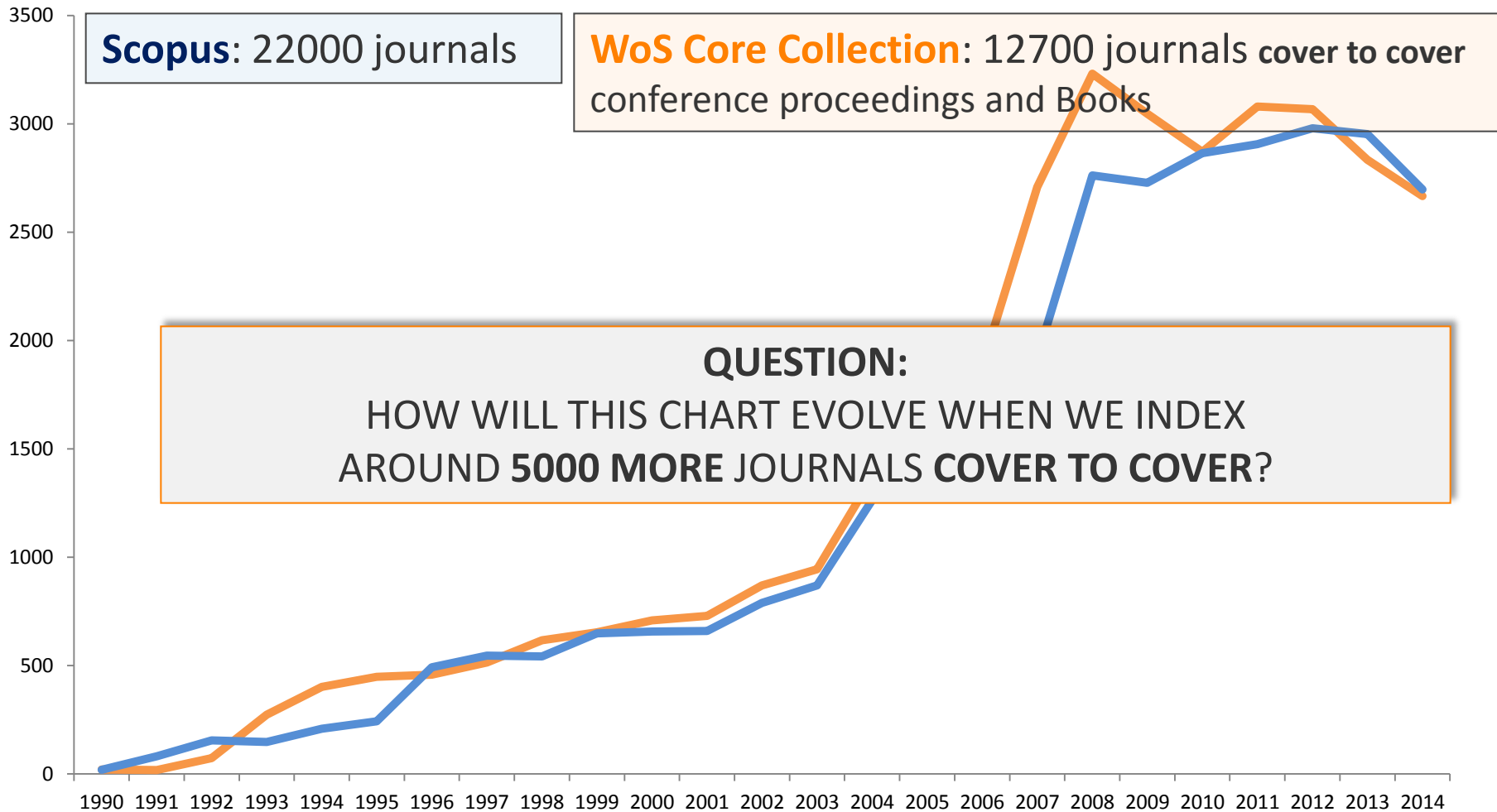
Coverage of *Lithuanian affiliated papers*



Coverage of *Lithuanian affiliated papers*



Coverage of *Lithuanian affiliated papers*



Web of Science Expansion

Around **5000 journals** over the next 2 years (2015-2016). Increase journals visibility and discovery coverage.

We will Keep **the core criteria for selection** (Peer Review, Publishing Practices, High Interest to a scholarly community)

2500 **European Journals**

Cover to Cover indexing

10 additional **editorial staff** (2 in Europe) for selection and consulting with National agencies, funding bodies and Bibliometric partners.

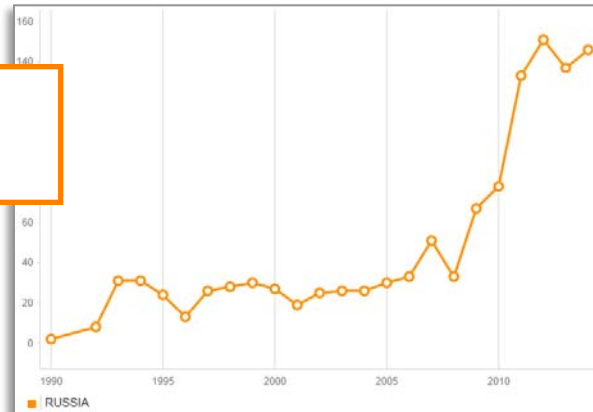
Data/Metrics exposed in **InCites** (ability to filter)

No Journal Impact Factor (and citations not counted for JIF calculation)

Regional citation indexes

- Already launched the **Chinese Science Citation Index**
- Already launched the **Scielo Citation Index**
- Already launched the **Korean Journal database**
- **Russian Citation Index** to be available by the end of 2015

Lithuanian-Russian collaboration in recent years





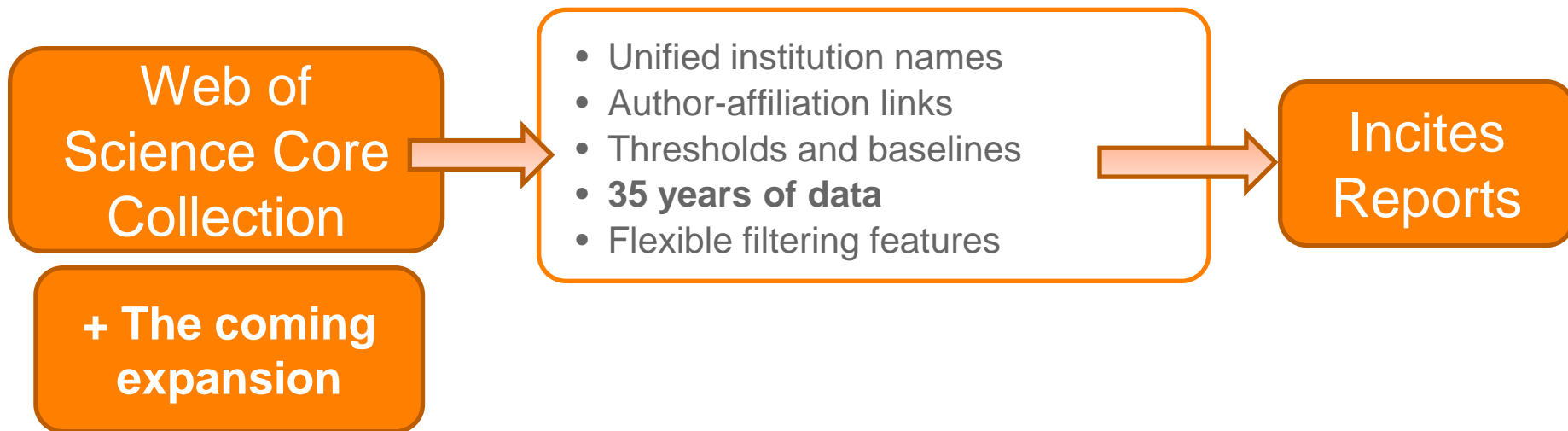
INCITES

First level study on Lithuanian research and journals



THOMSON REUTERS

The principle



Journal Citation Reports

Compare Selected Journals
Add Journals to New or Existing List
Customize Indicators

| | Total Cites | Journal Impact Factor | Impact Factor without Journal Self Cites | 5 Year Impact Factor |
|--------------------------|-------------|--|--|----------------------|
| <input type="checkbox"/> | 1 | Technological and Economic Development of Economy | | |
| <input type="checkbox"/> | 2 | International Journal of Strategic Property Management | | |
| <input type="checkbox"/> | 3 | Journal of Civil Engineering and Management | | |
| <input type="checkbox"/> | 4 | Baltic Journal of Road and Bridge Engineering | | |
| <input type="checkbox"/> | 5 | Nonlinear Analysis-Modelling and Control | | |

TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF ECONOMY

Impact Factor
2.818 **2.216**
2013 5 year

| | | |
|---------------|------------------|----------------------|
| JCR® Category | Rank in Category | Quartile in Category |
| ECONOMICS | 25 of 333 | Q1 |

Data from the 2013 edition of Journal Citation Reports®

Publisher
 VILNIUS GEDIMINAS TECH UNIV, SAULETEKIO AL 11, VILNIUS, LT-10223, LITHUANIA

ISSN: 2029-4913
 eISSN: 2029-4921

Research Domain
 Business & Economics

JIF Quartile

Q1 Q3
 Q2 Q4

MULTIPLE CRITERIA DECISION MAKING (MCDM) METHODS IN ECONOMICS: AN OVERVIEW

By: Zavadskas, Edmundas Kazimieras; Turskis, Zenonas

TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF ECONOMY Volume: 17 Issue: 2 Pages: 397-427

Published: JUN 2011

Times Cited: 119
(from Web of Science Core Collection)

Full Text from Publisher
View Abstract

Highly Cited Paper

Pertinent metrics

The average number of citations varies significantly across disciplines

NECESSITY: FIELD NORMALIZATION

Citations are dynamic; they grow over time and cannot be compared across different time periods.

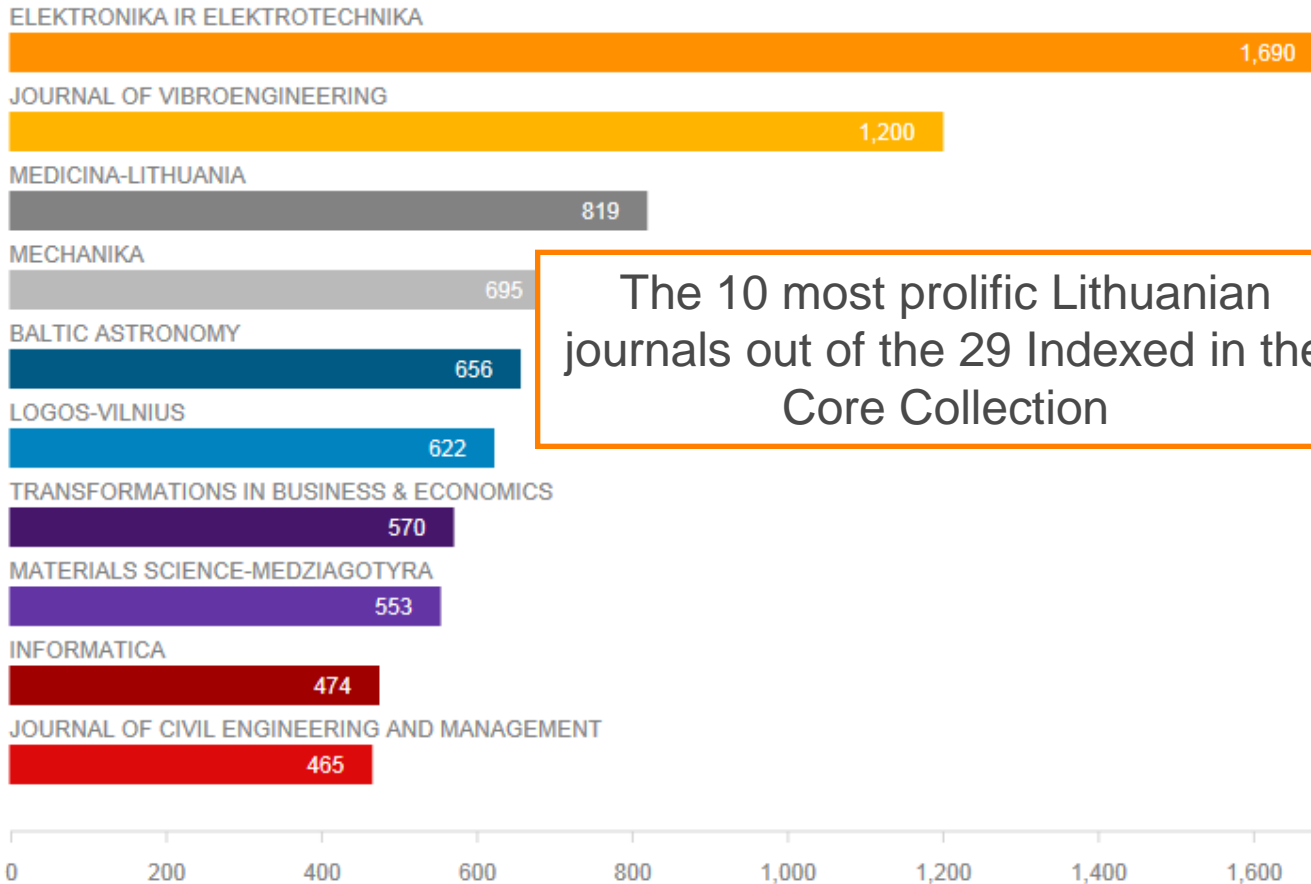
Also the “citation maturity” rate differs between fields

NECESSITY: TIME NORMALIZATION

Different publication types have different citation behaviour, an article does not statistically receive as much citations as a review

NECESSITY: DOCUMENT TYPE NORMALIZATION

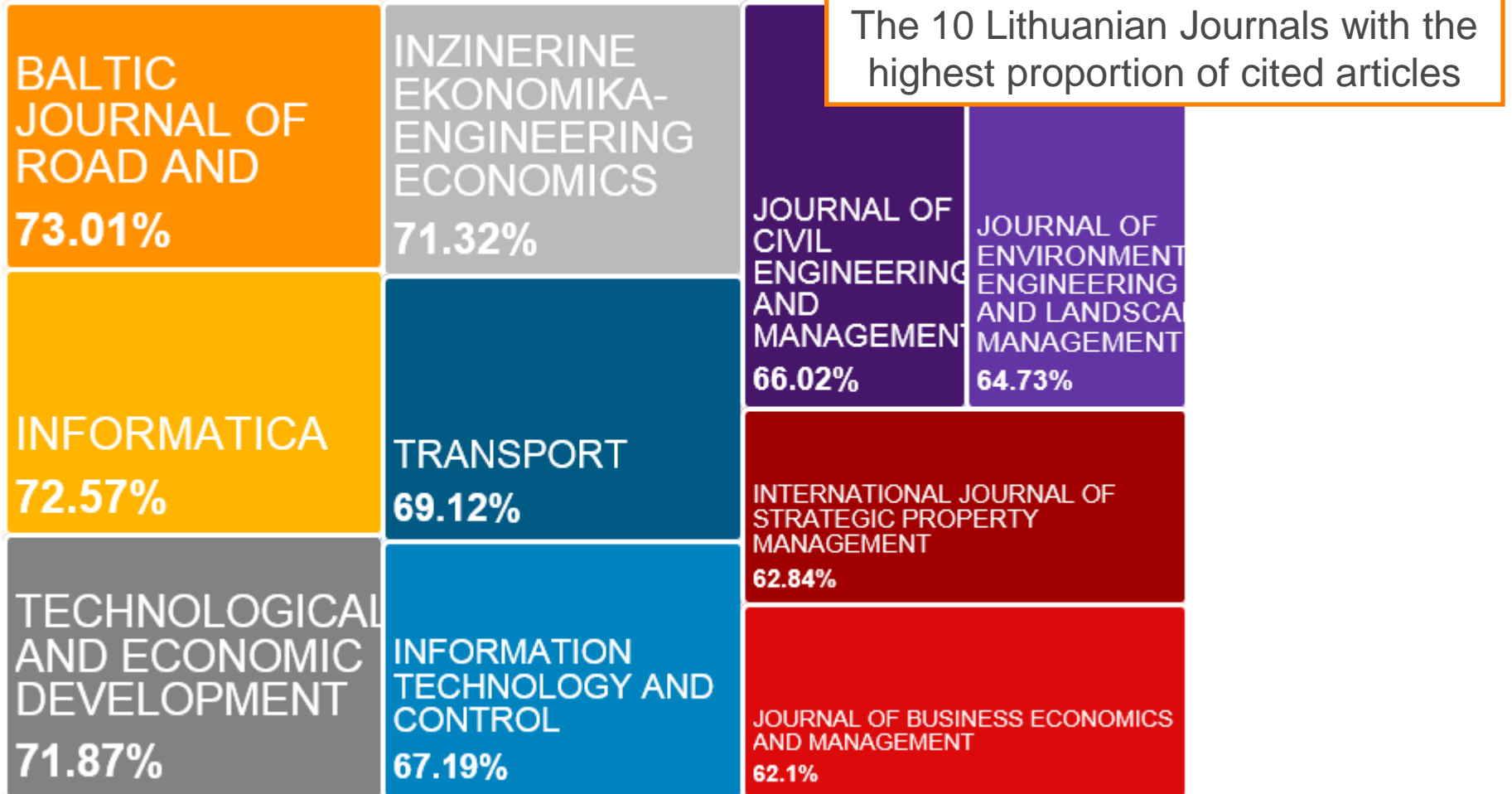
The 29 Lithuanian Journals indexed in the Core Collection



The 10 most prolific Lithuanian journals out of the 29 Indexed in the Core Collection

- ELEKTRONIKA IR ELEKTROTECHNIKA
- JOURNAL OF VIBROENGINEERING
- MECHANIKA
- MEDICINA LITHUANIA
- TRANSFORMATIONS IN BUSINESS ECONOMICS
- JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT
- MATERIALS SCIENCE MEDZIAGOTYRA
- ZEMDIRBYSTE AGRICULTURE
- INZINERINE EKONOMIKA ENGINEERING ECONOMICS
- LOGOS VILNIUS
- TRANSPORT
- JOURNAL OF BUSINESS ECONOMICS AND MANAGEMENT
- TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF ECONOMY
- MATHEMATICAL MODELLING AND ANALYSIS
- LITHUANIAN JOURNAL OF PHYSICS
- BALTIC ASTRONOMY
- FILOSOFIJA SOCIOLOGIJA
- CHEMIJA
- PROBLEMOS
- LITHUANIAN MATHEMATICAL JOURNAL
- INFORMATION TECHNOLOGY AND CONTROL INFORMATICA
- JOURNAL OF ENVIRONMENTAL ENGINEERING AND LANDSCAPE MANAGEMENT
- NONLINEAR ANALYSIS MODELLING AND CONTROL
- BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING
- JOURNAL OF BALTIC SCIENCE EDUCATION
- BALTIC FORESTRY
- INTERNATIONAL JOURNAL OF STRATEGIC PROPERTY MANAGEMENT
- BALTICA

The 29 Lithuanian Journals indexed in the Core Collection

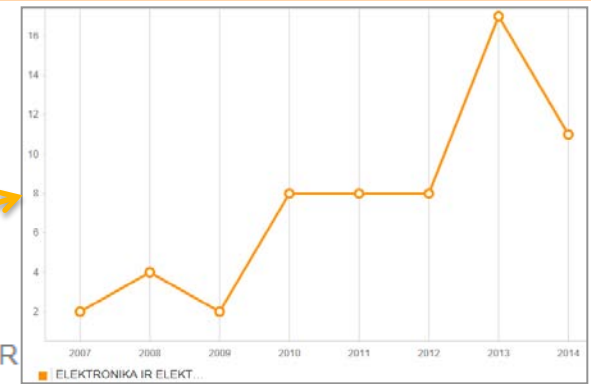


The 29 Lithuanian Journals indexed in the Core Collection

Journal Normalized citation impact



When did we publish these Polish authors?



What happens when we publish Polish authors?
Do they raise the overall impact of our journal?

The 29 Lithuanian Journals indexed in the Core Collection

Journal Normalized citation impact

| Locations | | Name | Rank | Affiliation | ▼ Web of Science Documents | Journal Normalized Citation Impact |
|----------------------|--------------------------|----------------|------|-------------------------|----------------------------|------------------------------------|
| By Research Output ▲ | <input type="checkbox"/> | B[REDACTED]. | 1 | Kaunas University of... | 16 | 0.64 |
| Document Type | <input type="checkbox"/> | Ba[REDACTED] | 2 | Kaunas University of... | 15 | 0.89 |
| Research Area | <input type="checkbox"/> | D[REDACTED]. | 2 | Kaunas University of... | 15 | 0.92 |
| ● Journal | <input type="checkbox"/> | Kit[REDACTED]. | 4 | Kaunas University of... | 12 | 0.82 |
| Journal Name | <input type="checkbox"/> | K[REDACTED] | 5 | Vilnius Gediminas Te... | 11 | 1.11 |
| ISSN | <input type="checkbox"/> | O[REDACTED] | 5 | Kaunas University of... | 11 | 1.82 |
| | <input type="checkbox"/> | J[REDACTED] | 7 | Kaunas University of... | 10 | 1.43 |
| | <input type="checkbox"/> | Kre[REDACTED] | 7 | Vilnius Gediminas Te... | 10 | 1.08 |

Who are the authors raising our visibility and impact?

The 29 Lithuanian Journals indexed in the Core Collection

Journal Normalized citation impact

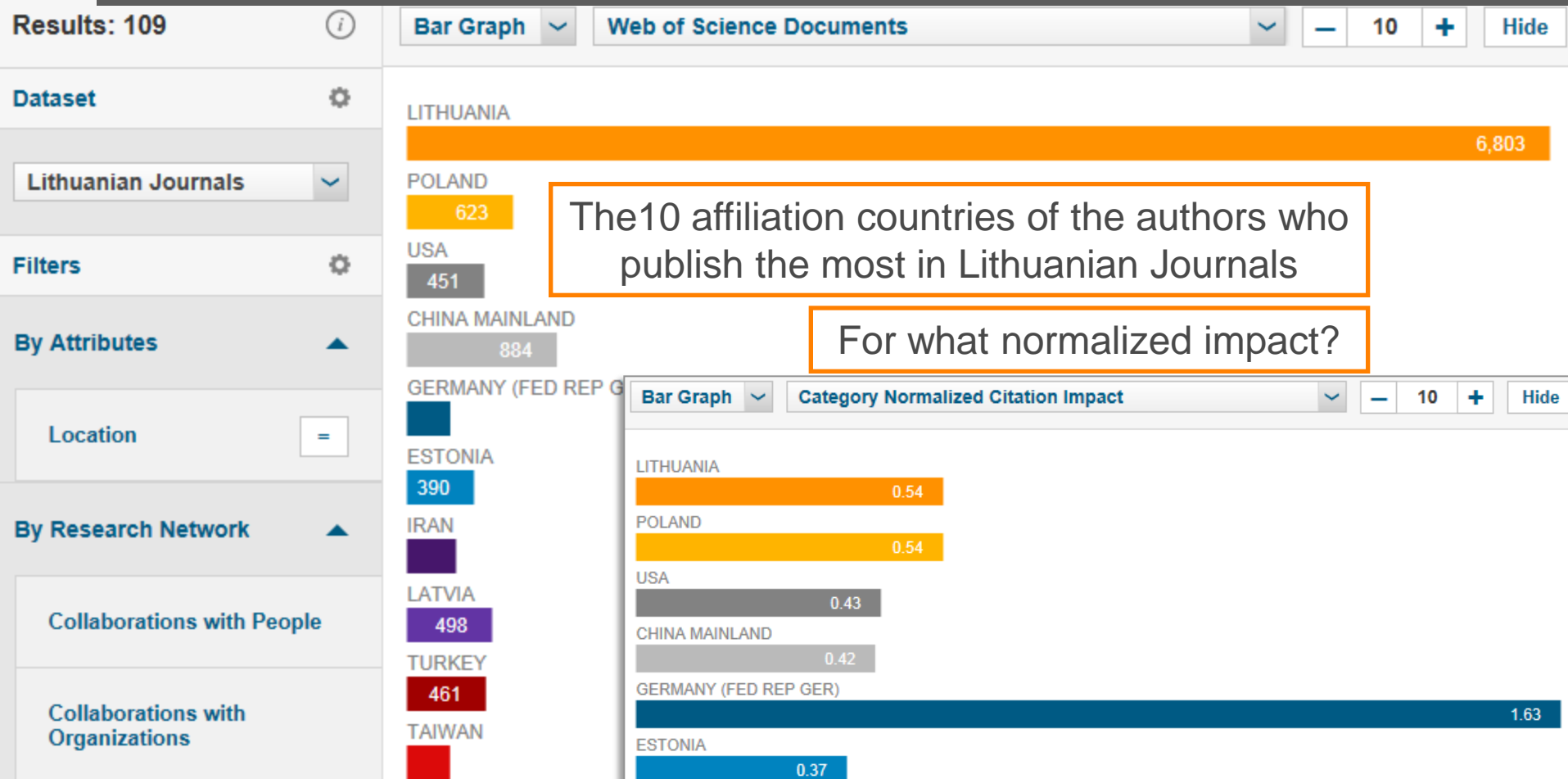
| Locations | Name | Rank | Affiliation | Web of Science Documents | Journal Normalized Citation Impact |
|--------------------|---------------------------------|------|-------------------------|--------------------------|------------------------------------|
| By Research Output | <input type="checkbox"/> B... | 1 | Kaunas University of... | 16 | 0.64 |
| Document Type | <input type="checkbox"/> Ba... | 2 | Kaunas University of... | 15 | 0.89 |
| Research Area | <input type="checkbox"/> D... | 2 | Kaunas University of... | 15 | 0.92 |
| Journal | <input type="checkbox"/> Kib... | 4 | Kaunas University of... | 12 | 0.82 |

| Article Title | Authors | Source | Volume | Issue | Pages | Publication Date | Times Cited | Journal Expected Citations | Category Expected Citations | Journal Normalized Citation Impact |
|--|--|-----------|--------|-------|-------|------------------|-------------|----------------------------|-----------------------------|------------------------------------|
| Comparison of dynamic behaviour of EMA-3 railgun under differently induced loadings | Tumonis, L.; Schneider, M.; Kacianauskas, R.; Kaceniauskas, A. | MECHANIKA | n/a | 6 | 31-37 | 2009 | 10 | 4.86 | 8.24 | 2.11 |
| Evaluation of friction due to deformed behaviour of rail in the electromagnetic railgun: numerical investigation | Tumonis, L.; Kacianauskas, R.; Kaceniauskas, A. | MECHANIKA | n/a | 6 | 58-63 | 2007 | 7 | 2.87 | 11.27 | 2.11 |

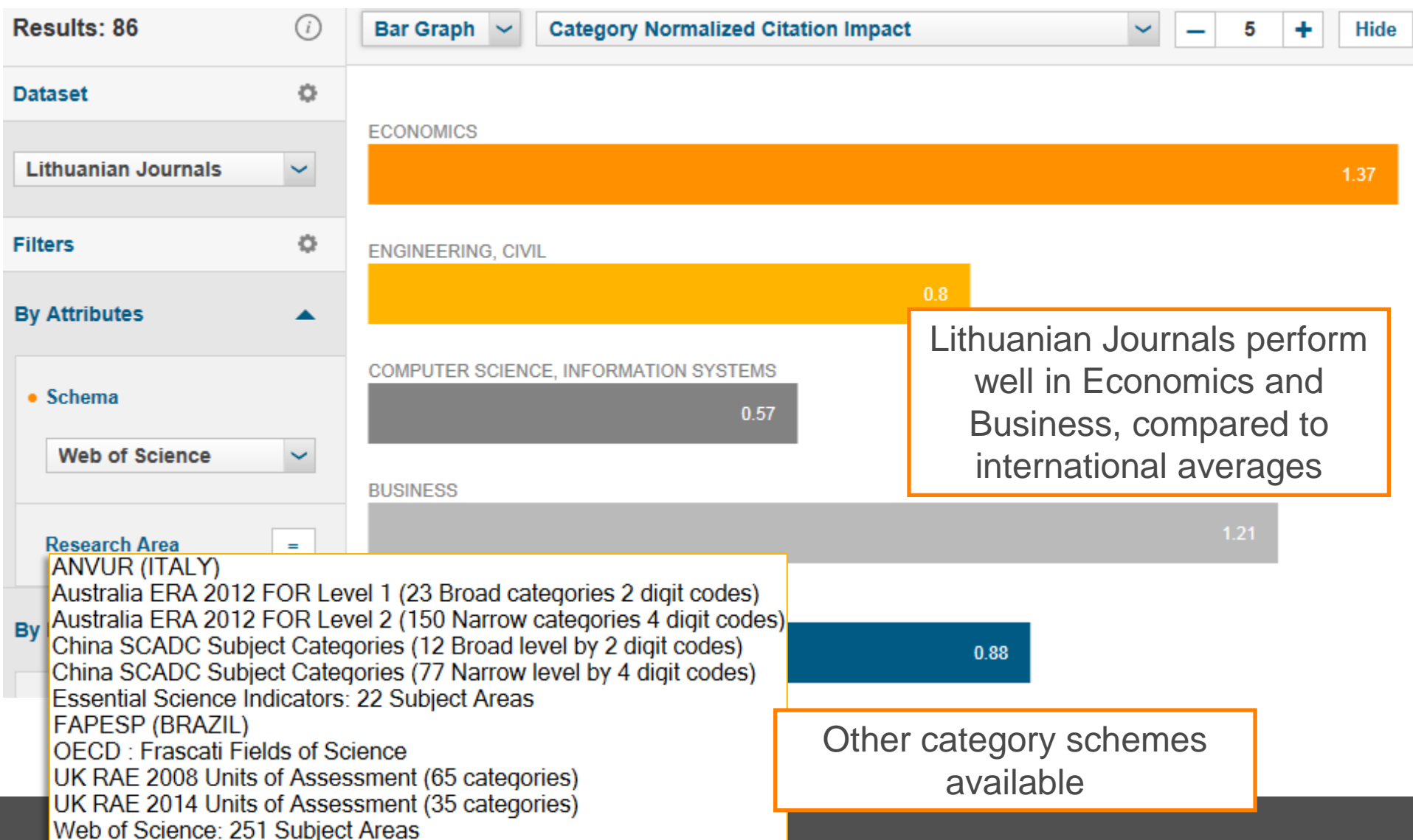
visibility and

Drill to article level metrics and visualise the papers in the Web of Science

The 29 Lithuanian Journals indexed in the Core Collection



The 29 Lithuanian Journals indexed in the Core Collection



The 29 Lithuanian Journals indexed in the Core Collection


What are the Lithuanian journals in Economics and Business?

| Lithuanian Journals | | | Web of Science Documents | Times Cited | % Docs Cited | ▲ Category Normalized Citation Impact |
|--------------------------|---------------------------|---|--------------------------|-------------|--------------|---------------------------------------|
| <input type="checkbox"/> | TRANSFORMATIONS IN BU... | 1 | 570 | 1,243 | 49% | 1.04 |
| <input type="checkbox"/> | INZINERINE EKONOMIKA-E... | 2 | 408 | 1,662 | 71% | 0.83 |
| <input type="checkbox"/> | TECHNOLOGICAL AND EC... | 3 | 359 | 2,715 | 72% | 1.82 |
| <input type="checkbox"/> | JOURNAL OF BUSINESS E... | 4 | 343 | 1,715 | 62% | 1.78 |

Did *Technological And Economic Development Of Economy* publish many **Top1%** or **top 10%** articles?

| Name | Rank | Web of Science Documents | % Documents in Top 1% | % Documents in Top 10% |
|-------------------------|------|--------------------------|-----------------------|------------------------|
| TECHNOLOGICAL AND EC... | 1 | 359 | 1.69% | 18.54% |

Lithuanian Research

|  | Name | Rank | Web of Science Documents | Category Normalized Citation Impact | ▼ Times Cited | % Docs Cited |
|---|---------------------------------|------|--------------------------|-------------------------------------|---------------|--------------|
| <input type="checkbox"/> | Vilnius Gediminas Technical... | 1 | 465 | 3.3 | 3,231 | 58% |
| <input type="checkbox"/> | Kaunas University of Technol... | 2 | 523 | 0.85 | 1,199 | 44% |
| <input type="checkbox"/> | Vilnius University | 3 | 361 | 1.58 | 1,070 | 55% |
| <input type="checkbox"/> | Mykolas Romeris University | 4 | 90 | 0.8 | 198 | 38% |

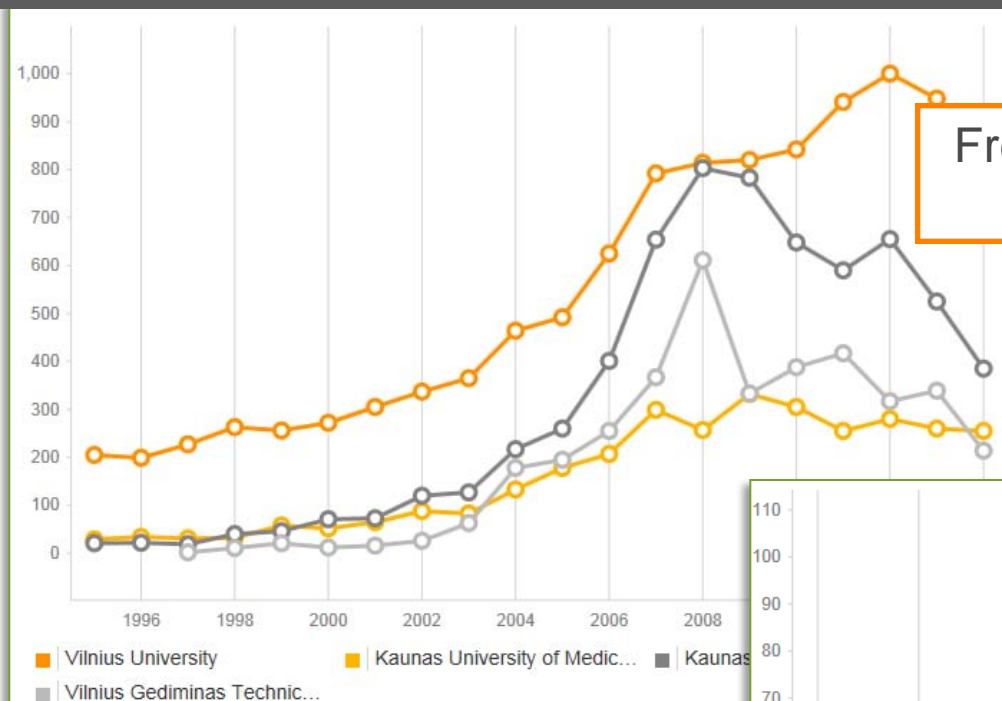
Schema
Web of Science

Research Area
× ECONOMICS
× BUSINESS

• Location =
× LITHUANIA

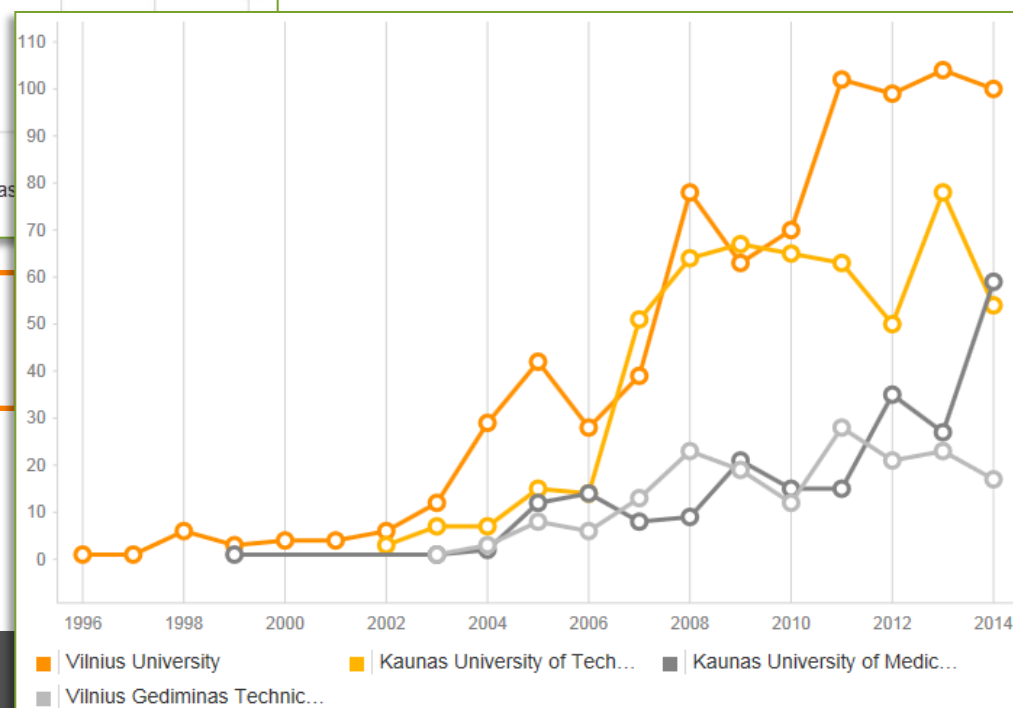
Drill into InCites data
(Strong performance in Economics and business by
Vilnius Gediminas Technical University)

Lithuanian Research



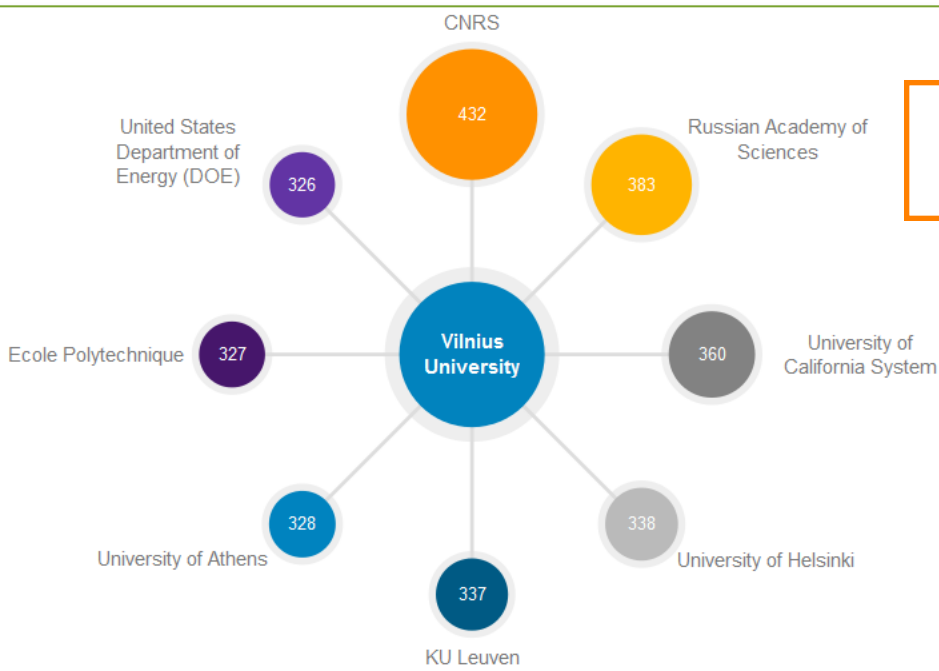
Frequency of publication by 4 main institutions...

...and frequency of their Open Access Publications

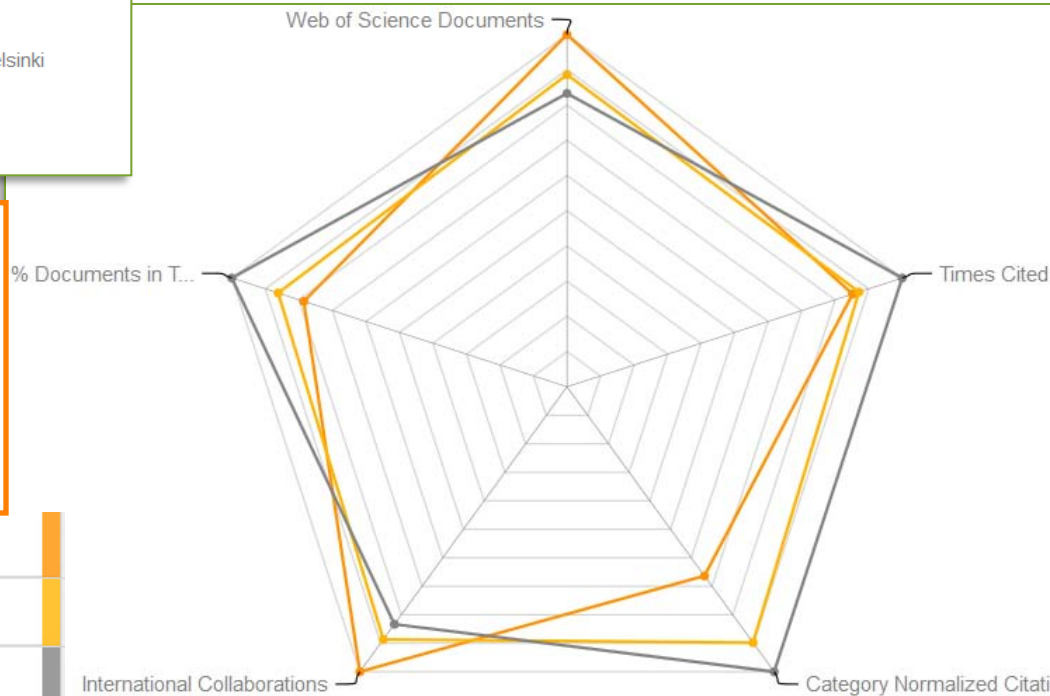


Lithuanian Research

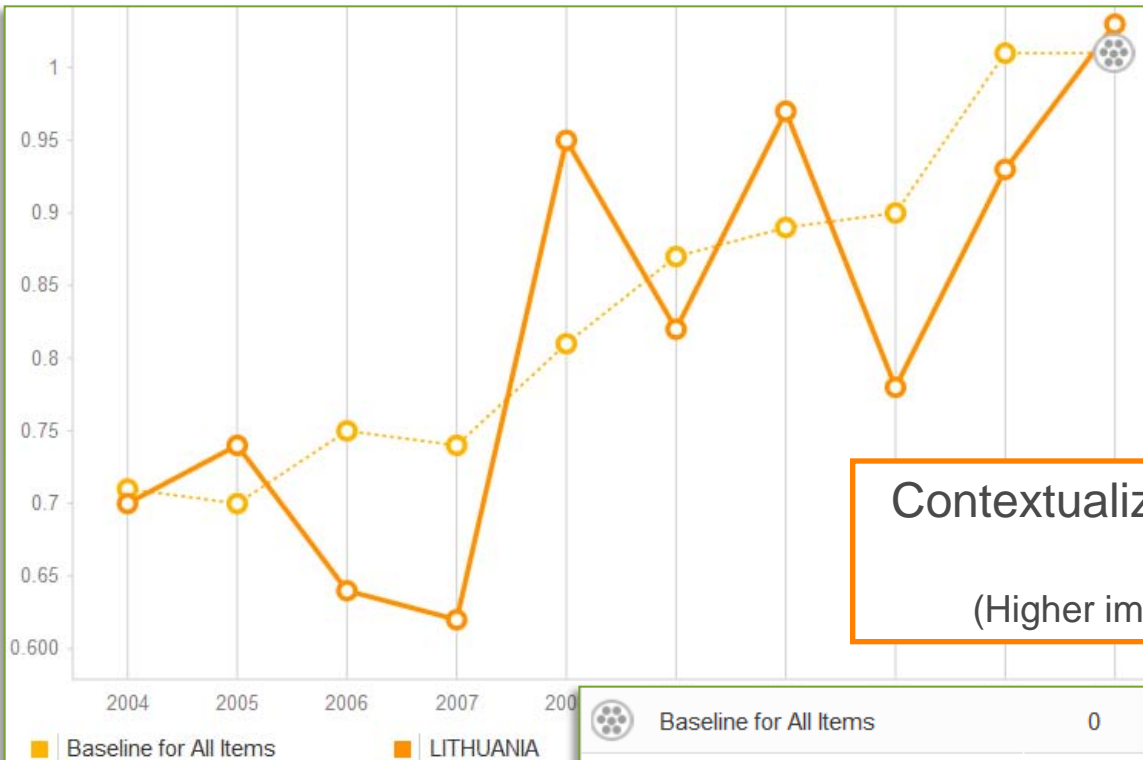
The international collaborations of Vilnius University...



...and a “multi-metrics” comparison of its collaboration with the French CNRS, the Russian Academy of Sciences and the University of California System



Lithuanian Research



Location =

- LITHUANIA
- SLOVENIA
- SLOVAKIA
- ESTONIA
- BELARUS
- LATVIA

Contextualize the data and customize your analysis
(Higher impact than the group in 2013)

| | | | | | | |
|-------------------------------------|------------------------|---|---------------|------|---------|--------|
| | Baseline for All Items | 0 | 138,502 | 0.86 | 836,448 | 57.62% |
| <input checked="" type="checkbox"/> | SLOVENIA | 1 | 38,767 | 0.95 | 283,071 | 63% |
| <input checked="" type="checkbox"/> | SLOVAKIA | 2 | 38,404 | 0.84 | 238,772 | 59% |
| <input checked="" type="checkbox"/> | LITHUANIA | 3 | 25,396 | 0.84 | 114,864 | 53% |
| <input checked="" type="checkbox"/> | ESTONIA | 4 | 16,290 | 1.25 | 153,263 | 66% |
| <input checked="" type="checkbox"/> | BELARUS | 5 | 13,368 | 0.66 | 68,058 | 52% |
| <input checked="" type="checkbox"/> | LATVIA | 6 | 9,517 | 0.82 | 40,544 | 41% |

Bibliometrics Best Practices

- Trust the data (selection, quality) before you trust the metrics
- Understand each metrics, the question(s) they answer and their limits
- Use multiple metrics for a balanced view
- Complete the analysis with human judgement (metrics are just one piece of the puzzle)



Thank you!

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marcin.kozakowski@thomsonreuters.com