



# THE USE OF INCITES IN RESEARCH PERFORMANCE EVALUATION

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## **INCITES**

Bibliometric analysis of research output and impact

with peer comparisons.



## InCites – RPP: Citation Frequency Distribution

Report Limited To

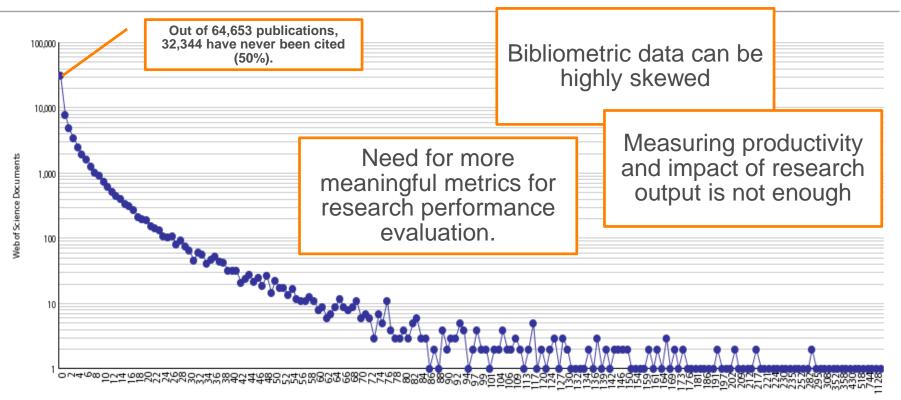
Dataset: Czech Republic: 2005-2011: InCites Appraisal Dataset

Report Type: Citation Frequency Distribution

Time Period: 2005 - 2011

Additional Information: Cite this report as InCitesTM, Thomson Reuters (2014). Report Created: Jan 4, 2014 Data Processed Feb 14, 2011 5:34:23 PM Data Source: Web of Science ® This data is reproduced under

Science business of Thomson Reuters. Subject area baseline data processed Unavailable



Times Cited



## InCites – Why Normalized Metrics?

The average number of citations varies significantly across disciplines (Field normalization)

The average citation maturity rate differs between fields

(Field, Time normalization)

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

(Time normalization)

Different publication types have different citation behaviour

(Publication type normalization)

### InCites - Article Level Metrics

'How many citations should I expect from my papers?'

How do my papers perform in my field?'

'How do other researchers perform in my field?'

'How do my papers perform in the journals I publish?'

'How is my research perceived by the journals I publish in?'

'Knowing I am better than average is not enough. Where do my research papers stand in competition to other similar papers?'

The ratio of all citations over all publications in a given year, journal and publication type

Journal

Normalized

Citation

Impact

Journal Category

Expected Expected

Citations Citations

Indicator of performance in the **field**: If>1, performs higher than average If<1, performs lower than average

Normalized

Citation

Impact

Article Title	Authors	Source	Volume	Issue	Pages	Publication Date
Human capital creation, accumulation and management in Lithuania: The case of	GRUNDEY, DAINORA; VARNAS, DARIUS	TRANSFORMATIONS IN BUSINESS & ECONOMICS	5	3	81-105	2006

A class of advanced bibliometric indicators for quantitative research performance evaluation

The ratio of all citations over all publications in a given journal, year and publication type

**Times** 

Cited ▼

15

Indicator of performance in the journal: If>1, performs higher than average If<1, performs lower than average

**Percentile** is a value above which a certain proportion of the observations fall

Percentile

in Subject

20.53

Journal

**Impact** 

Factor

0.26

Percentiles allow the classification of publications into meaningful citation impact classes

The smaller the percentile number, the higher the number of citations



national and foreign capital enterprises

### InCites – Individual Researcher

#### Examples of how InCites users are applying the data

 Identify high-impact researchers in each department and use them as mentors for other faculty members.

Monitor research performance in the **field**:

If>1, performs higher than average If<1, performs lower than average Monitor research performance in the **journal**:

If>1, performs higher than average

If<1, performs lower than average

Name	Rank	Web of Science Documents	Times Cited	Citation Impact	h-index	Normalized Citation Impact	Journal Normalized Citation
Researcher A	1	66	291	4.4	9	1.32	1.86
Researcher B	2	62	289	4.66	9	0.45	0.72



Differentiate between research output of same productivity and impact in terms of its performance in category and journal dataset and use information to enhance your research performance

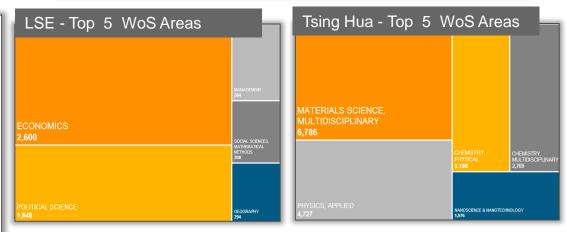
## Normalized Citation Impact (NCI) - Institutions

For example, lets try to compare LSE and Tsing-Hua University...

#### **Different Publication Output**

#### 

#### **Different Research Areas**



#### **Different Publication Types**

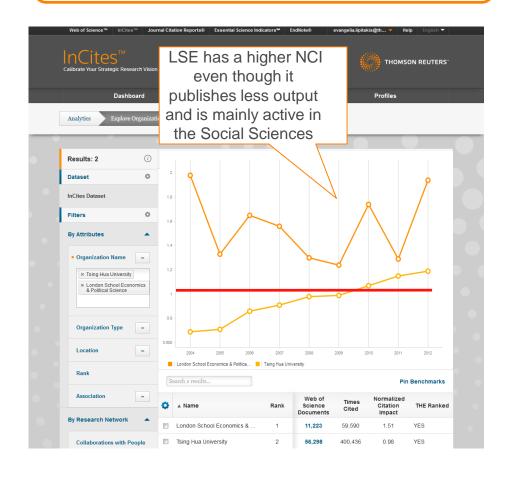




## Normalized Citation Impact (NCI) - Institutions

The Normalized Citation Impact indicator allows meaningful comparisons of institutions/countries in different subject mix and different publication rates

 'How do my papers perform in my field?'
'How do other institutions perform in my field?'





## A CLASS OF BIBLIOMETRIC INDICATORS FOR RESEARCH PERFORMANCE EVALUATION

Apply key quantitative based performance indicators as accountability measures to support funding proposals, foster strategic collaborations and make informed decisions.

**Productivity** and **Impact Normalization Top Performance** and **Scientific Excellence Scientific Collaborations** 

- Fractional Counting
- % Open Access
- Grants

- Patents
- h-index
- Citation Impact

- Impact Relative to **Country**
- Impact Relative to Area
- Impact Relative to World

- Normalized Citation *Impact*
- Normalized Citation Impact - Country Adjusted
- Journal Normalized Citation Impact

- Hot Papers
- Highly Cited Papers
- ESI Most Cited
- THE Ranked

- % Documents in 1%
- % Documents in 10%
- Average Percentiles
- Average Quartiles
- Research Fronts
- Co-citations
- Baselines

 International Collaborations  % International **Collaborations** 

% Industry **Collaborations** 



## **INCITES BENCHMARKING & ANALYTICS**

#### Benchmark

### Analyze

## Collaborate

Evaluate



User friendly and interoperable platform combining all TR analytic products



Create research entities at all levels (author, research group, institution, country, field, publication output)



Select from a wide range of advanced bibliometric indicators



Apply flexible analysis with multiple filters



Analyze big datasets instantly (Create customized datasets in WoS and export them to InCites for analysis, coming soon)



Produce enhanced visualizations, user friendly reports and comprehensive tables



### **INCITES 2 DATA OVERVIEW**

Source Edition: Web of Science Core Collection Data

SCIE, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH

**Citing Edition:** 

• ALL

**Document Types:** 

 ALL (Articles, Reviews, Letters, Editorials, Conference Proceedings, Books, Book Chapters, etc)

**Organizations:** 

4,600 unified organizations

**Regions:** 

220 Countries

**Subject Schemas:** 

11 Discipline Schemas (including WoS & ESI categories and regional schemas)

**Publication Types:** 

 98,000+ Publication types from Web of Science Core Collection

**Time Period:** 

• 1 Year, Cumulative

**Data and Benchmarks:** 

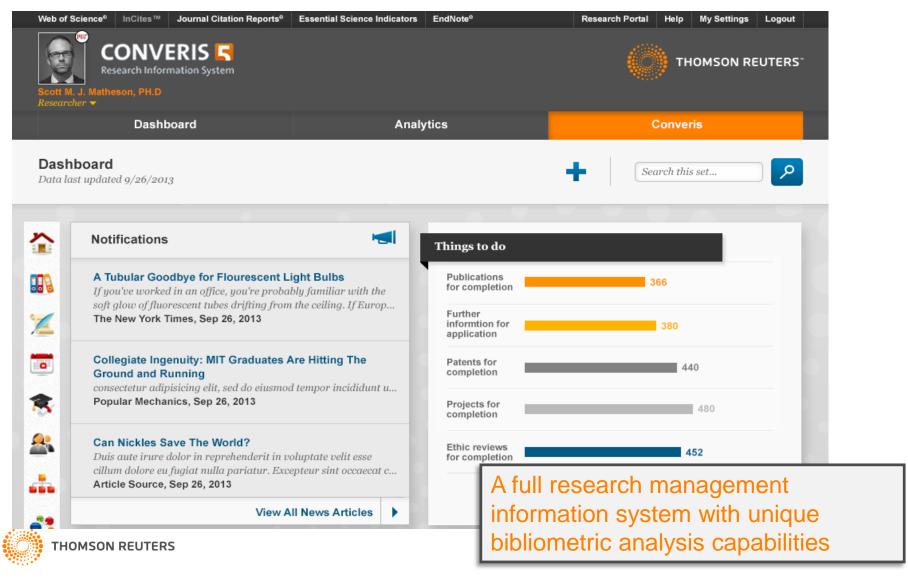
Will be updated bimonthly

**Source and Citing Years:** 

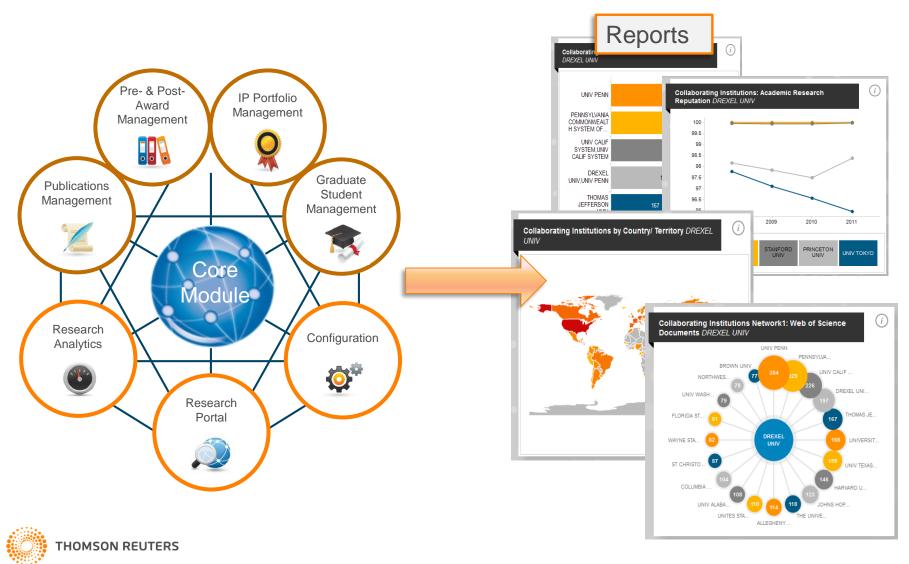
2004-2013 (30 years of historic data, coming soon)



## INCITES PROFILING SYSTEM Powered by Converis



## CONVERIS INFORMATION AND WORKFLOW MANAGEMENT



## Thank you!



