

Thomson Reuters – InCites

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THE USE OF THOMSON REUTERS RESEARCH ANALYTIC RESOURCES IN ACADEMIC PERFORMANCE EVALUATION

DR. EVANGELIA A.E.C. LIPITAKIS OCTOBER 2014, PRAGUE

Thomson Reuters: Solutions Portfolio to Seamlessly Support Research

Discover Scholarly Output



Organize References & Write Papers



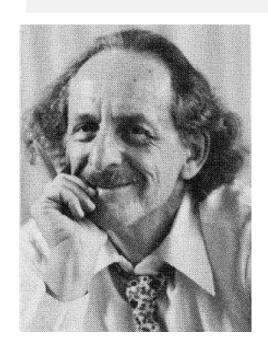


Benchmark & Analyze Performance



Manage & Report on Scholarly Activity

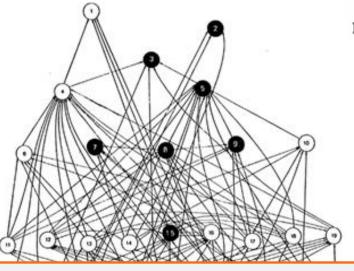
Eugene Garfield's "Association Of Ideas Index"-1955



Science, 122(3159), p.108-11, July 1955.

Citation Indexes for Science

A New Dimension in Documentation through Association of Ideas



Eugene Garfield



Web of Science is the "web" presentation of journal citation indexes developed five decades ago by Dr. Eugene Garfield, founder of ISI (now Thomson Reuters SSR) and an icon in the realm of scholarly information

Web Of Science Online Citation Database

SELECTIVE.....YET COMPREHENS

- "Multidisciplinary" coverage
 - enable to analyze the whole context of scientific research
- "Multiyear" coverage
 - enable to analyze the history and development of sciences
- "Cover to Cover" policy
 - enable to follow the flow of a topic regardless of communication type
- "ALL Authors, ALL Addresses"
 - enable to analyze by author name, by institution
- "ALL Cited References"
 - enable to perform analyses on literature that is not indexed



Selection Process For The Web Of Science Core Collection

Four Points of Evaluation

Publishing Standards Editorial Content

International Diversity

Citation Analysis

12500 selected Journals

12000 annual selected conferences

53000 selected books



1. Quantification:

- Data reduction (extracting essential information)
- Data cleaning and data disambiguation



- For more than four decades Thomson Reuters has provided a wide range of tools and services supporting research evaluation.
- Our specialist work with Web of Science data and ensure maximum standardization and unification before delivery to customers.
- Not just simple counts and averages, but real metrics founded on baselines for comparison and normalized statistics.



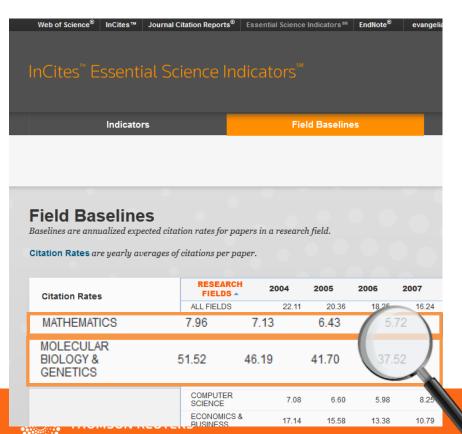
2. Measuring:

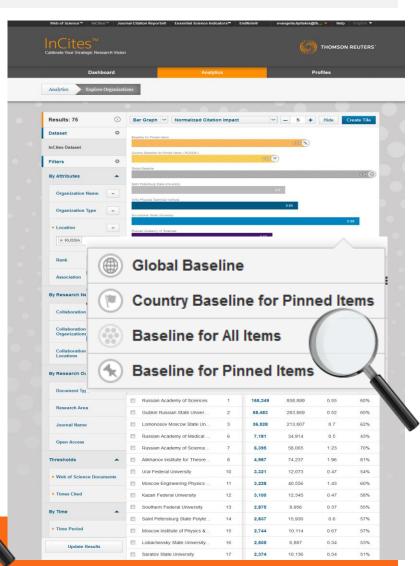
- What can and what should be measured?
- What are appropriate measures for the purpose?



3. Benchmarking

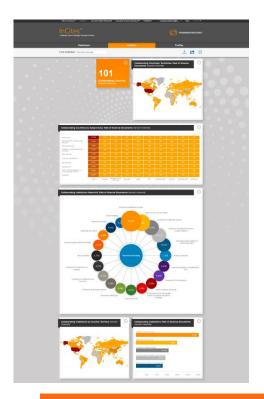
- Comparison (like with like)
- Putting data into context
- Consider limitations



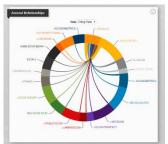


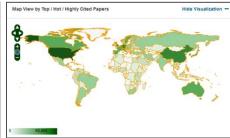
4. Presentation and interpretation

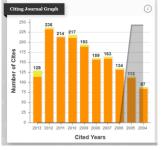
- Visualizations + interpretation of observations
- Linking bibliometric indicators to results of other methods

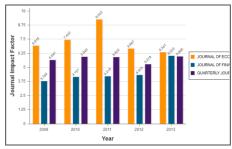


















The "SHANGHAI RANKING"



Indicators and Weights for ARWU

Criteria	Indicator	Code	Weight
Quality of Education	Alumni of an institution winning Nobel Prizes and Fields Medals	Alumni	10%
Quality of Faculty	Staff of an institution winning Nobel Prizes and Fields Medals	Award	20%
	Highly cited researchers in 21 broad subject categories	HiCi	20%
Research Output	Papers published in Nature and Science*	N&S	20%
	Papers indexed in Science Citation Index-expanded and Social Science Citation Index	PUB	20%
Per Capita Performance	Per capita academic performance of an institution	PCP	10%
Total			100%



Data collection

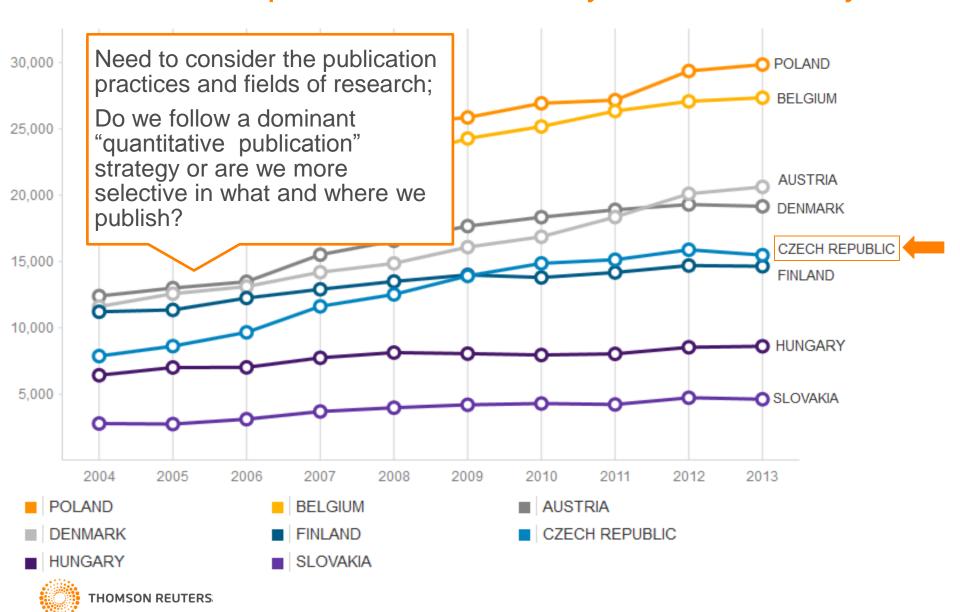
The CWTS Leiden Ranking 2013 is based on data from the Web of Science bibliographic database produced by Thomson Reuters. The ranking includes the 500 universities worldwide with the largest publication output in the Web of Science database. Although the ranking is limited to universities, it does include organizations directly related to universities, in particular hospitals associated with universities. Changes in the organizational structures of universities up to 2012 have been taken into account.

CWTS Leiden Ranking 2013



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National Comparisons – Monitor your Productivity



InCites - Country Comparison and Normalized **Citation Impact** Impact shows a constant upward trend, which is a good indication Red Line indicates 1.7 of improved research the World Average DENMARK 1.6 performance **Impact BELGIUM** 1.5 **AUSTRIA** FINLAND 1.4 1.3 CZECH REPUBLIC 1.2 HUNGARY 1.1 SLOVAKIA **POLAND** 0.9 0.8 0.700 0.600 2005 2006 2004 2007 2008 2009 2010 2011 2012 2013 **POLAND BELGIUM AUSTRIA** DENMARK FINLAND CZECH REPUBLIC SLOVAKIA HUNGARY



InCites - Monitor your International Collaboration

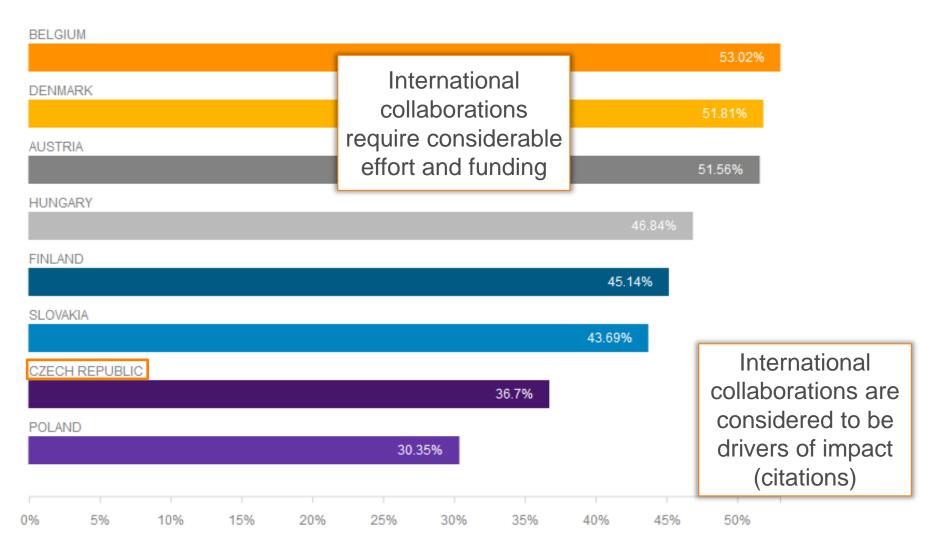
 International research collaboration has intensified and is often regarded as an indicator of quality and a way to develop and disseminate scientific knowledge

 Funding agencies such as the EC stimulate collaboration within the European Union by applying it as a funding criterion

What is the return on international collaboration?

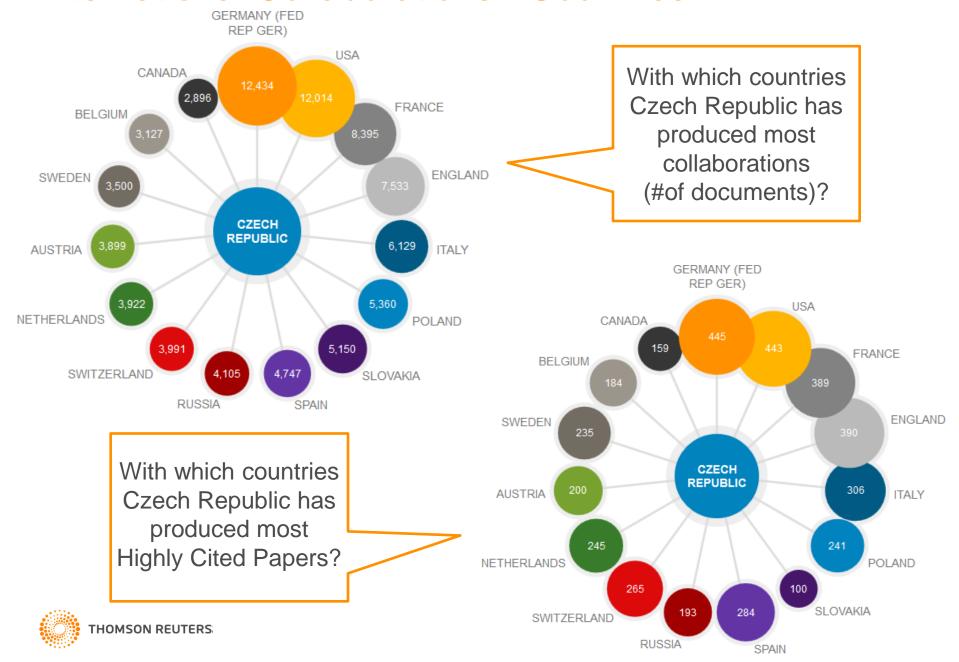


How much Czech Republic is collaborating internationally?

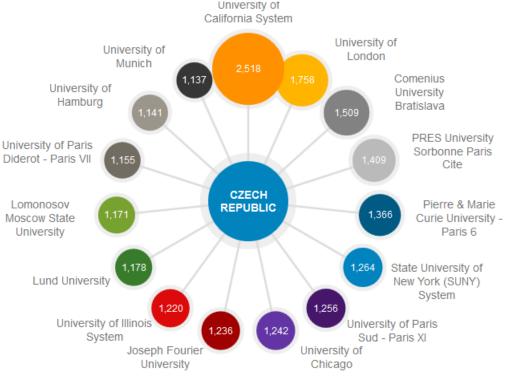




International Collaborations - Countries

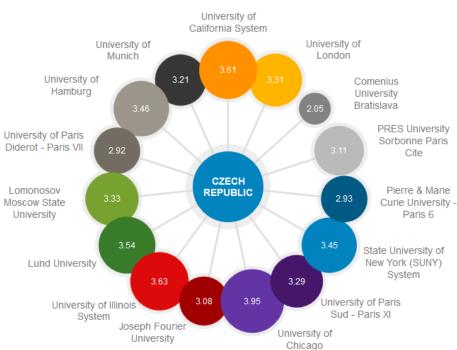


International Collaborations - Institutions



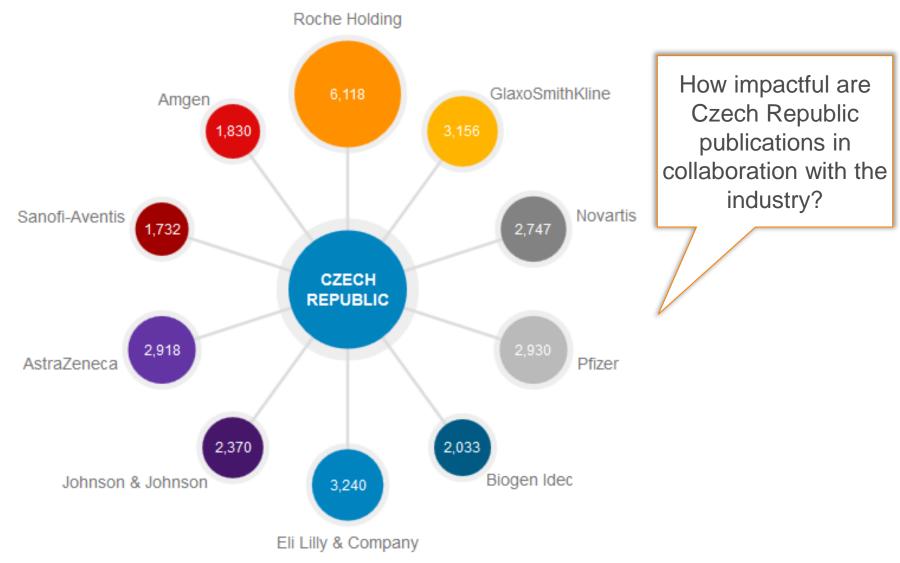
With which institutions
Czech Republic has
produced most
collaborations
(#of documents)?

With which institutions
Czech Republic has
produced the most
successful
collaborations (NCI)?



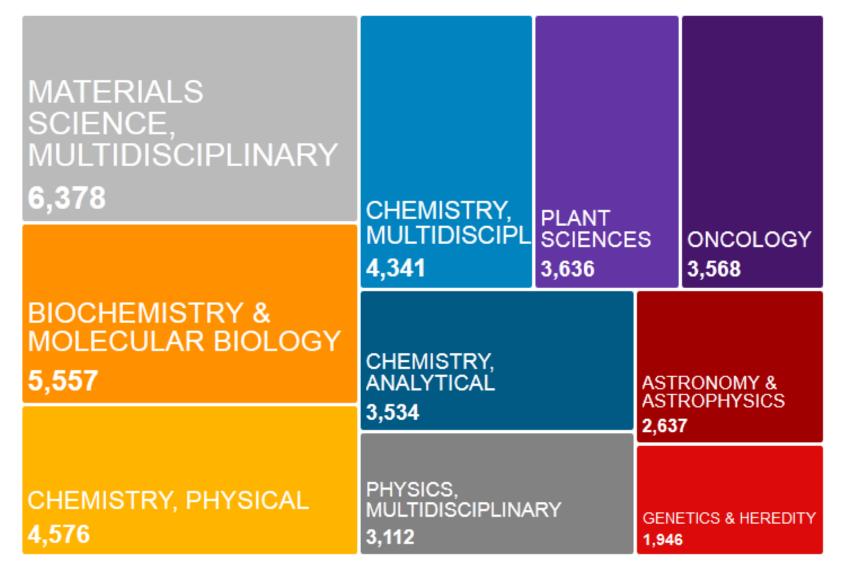


Industry Collaborations – Impact of publications



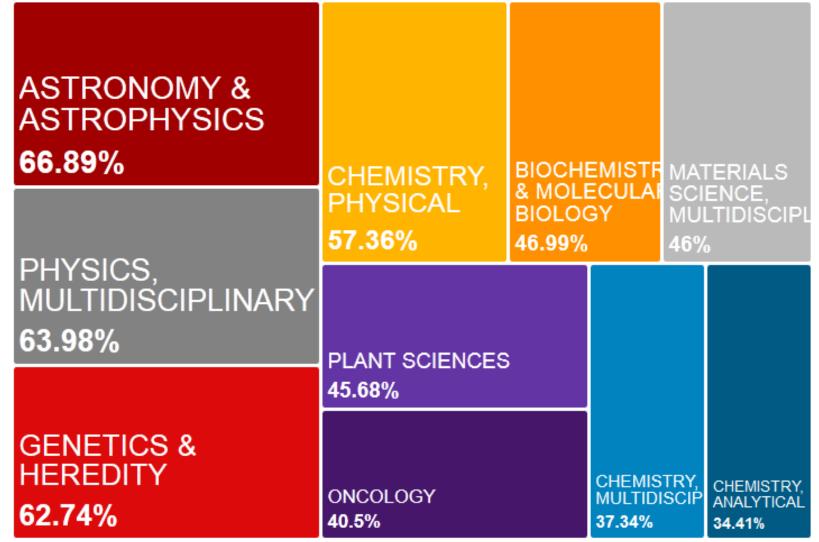


In which disciplines are Czech Republic researchers most active?



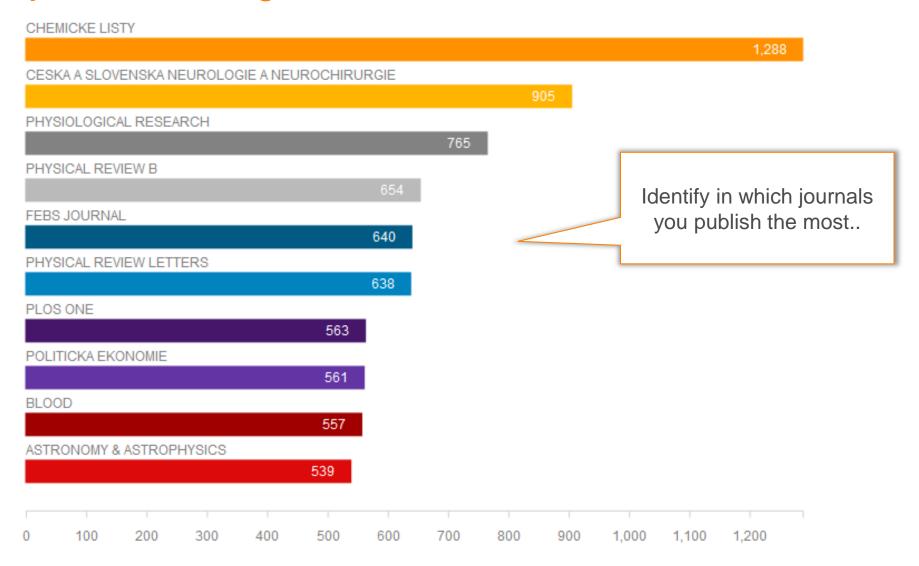


How much Czech Republic researchers collaborate in the disciplines they are most active?



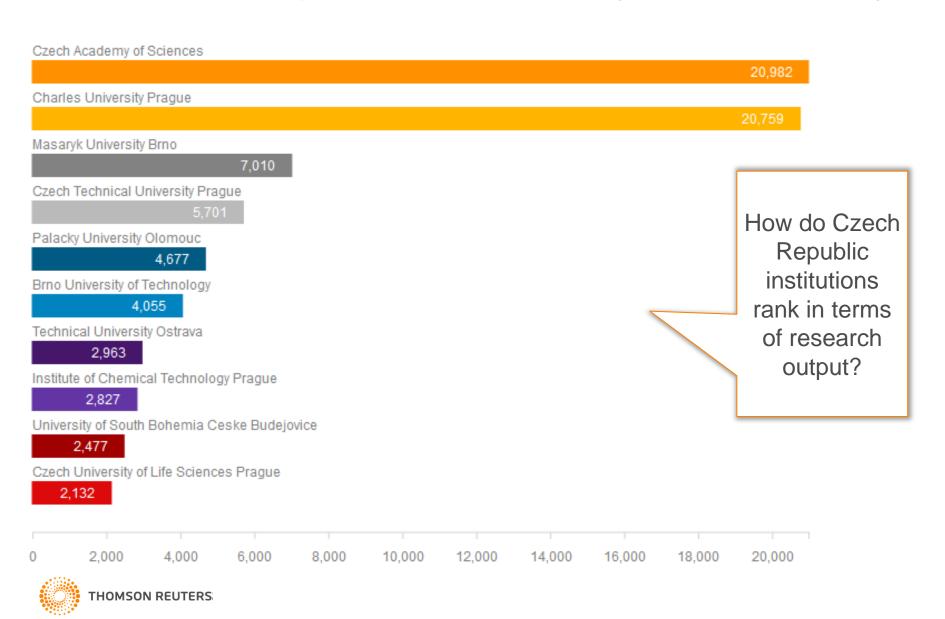


Assess your journal strategy in all disciplines with journal ranking indicators

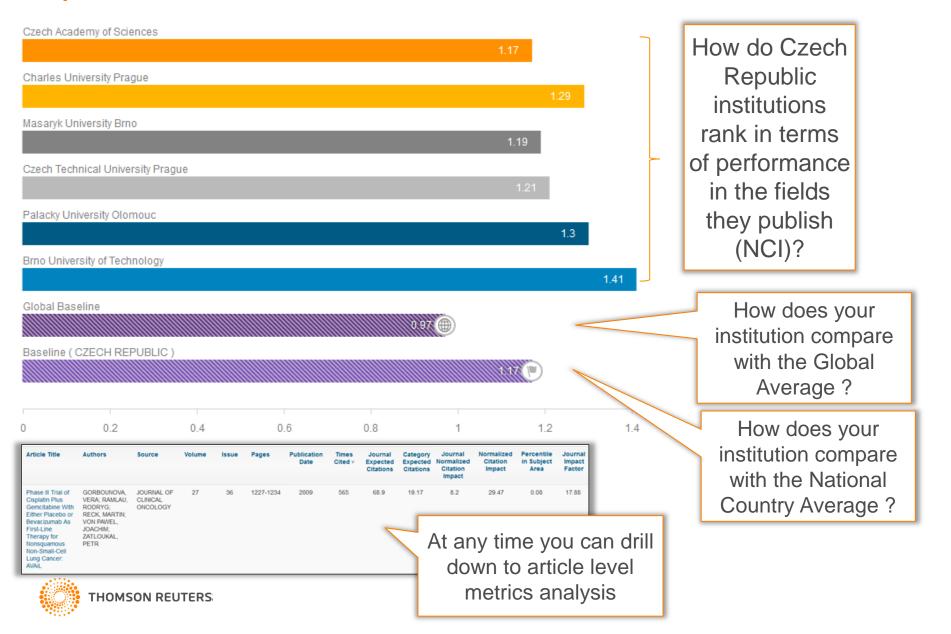




Institutional Comparisons – Monitor your Productivity



Institutional Comparisons –Normalized Citation Impact for 2008-2012



CURRENTLY APPROXIMATELY 600 INCITES CUSTOMERS WORLDWIDE

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Austria

Bulgaria

Czech Republic

France

Greece

Hungary

Ireland

Portugal

Romania

Russia

Slovakia

Slovenia

Turkey

U.K.

Research Institutes and Universities

Max Planck Society

Kings College London

KTH Royal Institute of Technology

Russian Academy of Sciences

University of Geneva

Utrecht University

University of Oslo

Catholic University in Leuven

University of Helsinki

University of Barcelona

University of Vienna

Masaryk University Brno

University of West Bohemia Pilsen

IPN Methodology Project



THANK YOU!

