

Opis metodologii czterech głównych światowych rankingów uczelni wyższych

ARWU, QS, US News, THE



INTERNATIONAL Visibility Project

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10 lipca 2019

Projekt finansowany w ramach programu Ministra Nauki i Szkolnictwa Wyższego pod nazwą „DIALOG” w latach 2019-2020

Perspektywy

 DIALOG



Ministerstwo Nauki
i Szkolnictwa Wyższego

Kim jesteśmy?



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INTERNATIONAL Visibility Project

US NEWS

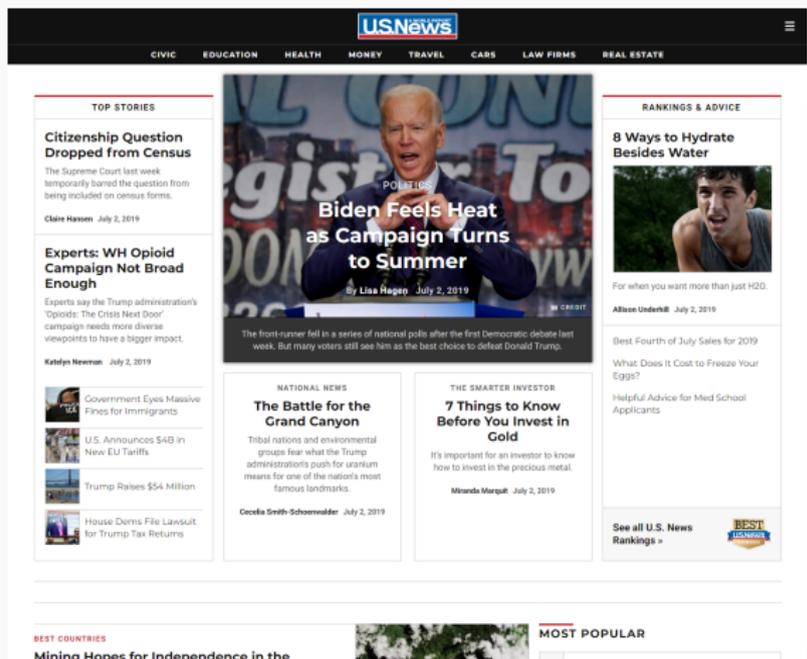
M.J. Mrowiński

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Perspektywy



Ministerstwo Nauki
i Szkolnictwa Wyższego



The screenshot shows the U.S. News & World Report website homepage. At the top, there is a navigation bar with categories: CIVIC, EDUCATION, HEALTH, MONEY, TRAVEL, CARS, LAW FIRMS, and REAL ESTATE. The main content area is divided into several sections:

- TOP STORIES**
 - Citizenship Question Dropped from Census**
The Supreme Court last week temporarily barred the question from being included on census forms.
Clare Hassan July 2, 2019
 - Experts: WH Opioid Campaign Not Broad Enough**
Experts say the Trump administration's 'Opioids: The Crisis Next Door' campaign needs more diverse viewpoints to have a bigger impact.
Katelyn Newman July 2, 2019
 - Government Eyes Massive Fines for Immigrants**
 - U.S. Announces \$4B in New EU Tariffs**
 - Trump Raises \$54 Million**
 - House Dems File Lashout for Trump Tax Returns**
- Politics**
 - Biden Feels Heat as Campaign Turns to Summer**
By Lisa Hepp July 2, 2019
The front-runner fell in a series of national polls after the first Democratic debate last week. But many voters still see him as the best choice to defeat Donald Trump.
- NATIONAL NEWS**
 - The Battle for the Grand Canyon**
Tribal nations and environmental groups fear what the Trump administration's push for uranium means for one of the nation's most famous landmarks.
Cecelia Smith-Schoenfelder July 2, 2019
- THE SMARTER INVESTOR**
 - 7 Things to Know Before You Invest in Gold**
It's important for an investor to know how to invest in the precious metal.
Miranda Marquie July 2, 2019
- RANKINGS & ADVICE**
 - 8 Ways to Hydrate Besides Water**
For when you want more than just H2O.
Allison Underhill July 2, 2019
 - Best Fourth of July Sales for 2019**
What Does it Cost to Freeze Your Eggs?
Helpful Advice for Med School Applicants
 - See all U.S. News Rankings >**
- BEST COUNTRIES**
 - Minina Hopes for Independence in the**
- MOST POPULAR**

USNews

8 Ways to Stay Hydrated Besides Drinking Water



Eat your vegetables.

Twenty percent of your daily water intake is derived from food, according to the National Institutes of Health. "Fruit and vegetables are especially high in water content," Mangieri says. You can keep your body hydrated by consuming fruits and veggies that contain 85 percent or more water. Try cucumbers and lettuce, for example, which are packed with 96% water. Next on the most-water-filled list are celery and radishes, with 95% water. Other top performers include cauliflower, bell peppers and spinach (92% water). "You really can't go wrong with fruits and vegetables," Armul says, "and they'll contribute up to about two to three cups a day of fluids if you're eating enough."



Take advantage of summer fruit.

Summer farmers markets are overflowing with fruits high in water. In addition to that forgotten fruit tomatoes, which are 94% water, also topping the list are strawberries and watermelon, which are both 92% water. Cantaloupe has 90% water, followed by peaches (88% water). Summer favorites such as pineapples and oranges offer 87% water. But don't go overboard – while fruits

FOR PARENTS

Sneaky Signs of Childhood Anxiety



FOOD

Vegan Keto Diet: Is It Possible?



EAT + RUN

How to Keep Your Yoga Pain Free



FOR PARENTS

Dealing With a Bug or Spider Phobia



FITNESS

Your Guide to Summer Hiking



Overall Best Countries Ranking

2019 Rankings

The overall ranking of Best Countries measure global performance on a variety of metrics.

SUMMARY ▾



DOWNLOAD FULL RANKINGS: 2019 | 2018 | 2017 | 2016



Switzerland

#1 in Best Countries Overall
No Change in Rank from 2018

Switzerland, officially called the Swiss Federation, is a small country in Central Europe. [READ MORE ▾](#)

GDP
\$678.9 billion

POPULATION
8.5 million

GDP PER CAPITA, PPP
\$62,125



Japan

#2 in Best Countries Overall
#5 out of 80 in 2018

Japan, one of the world's most literate and technically advanced nations, is an East Asian ... [READ MORE ▾](#)

GDP
\$4.9 trillion

POPULATION
126.8 million

GDP PER CAPITA, PPP
\$42,942



Canada

#3 in Best Countries Overall
#2 out of 80 in 2018

Canada takes up about two-fifths of the North American continent, making it the second-lar ... [READ MORE ▾](#)

GDP
\$1.7 trillion

POPULATION
36.7 million

GDP PER CAPITA, PPP
\$48,390



Germany

GDP
\$3.7 trillion

RECENT ARTICLES

BEST COUNTRIES

Pacific Island Aspires for Independence



BEST COUNTRIES

Countries Confront Water Shortages



BEST COUNTRIES

5 News Events to Watch This Week



BEST COUNTRIES

Commentary: Health Care and Inequality



[READ MORE ARTICLES ▾](#)

100 Best Jobs

No single job suits all of us, but many of the best ones have a few attributes in common: They pay well, challenge us year after year, match our talents and skills, aren't too stressful, offer room to advance throughout our careers and provide a satisfying work-life balance. Whether the position is in demand is also a consideration, especially among job seekers. U.S. News uses these qualities to rank the 100 Best Jobs of 2019. Software developer, statistician, physician assistant, dentist and orthodontist are among the top-ranked careers on the list. You can also explore the [best paying jobs](#) and other more specific [career rankings](#). For more information on how we rank, read the [Best Jobs Methodology](#).



SUMMARY ▾

100 Jobs [The 100 Best Jobs](#) [CLEAR ALL](#)

SORT BY: Best Match ▾

FIND A JOB

Job Name

RANKINGS

The 100 Best Jobs ▾

SALARY

\$0 - \$250,000+

INDUSTRY

- Engineering (3)
- Sales And Marketing (3)
- Science (3)
- Business (1)
- Healthcare (3)
- Healthcare Support (1)
- Education (3)
- Creative And Media (3)

Find Top Paying Jobs in Your City

See current salary offers for jobs in your field

Job Title, Keywords

Search

ZipRecruiter



Software Developer

👉 #1 in 100 Best Jobs

Software developers need to be innovative, creative and, of course, technical in order to succeed in this field. They might write new code or fix bugs in code to make it work better. [READ MORE](#)

PROJECTED JOBS

255,400

MEDIAN SALARY

\$101,790

EDUCATION NEEDED

Bachelor's



Statistician

👉 #2 in 100 Best Jobs

Statistics is the science of using data to make decisions. This is relevant in almost all fields of work and there are many opportunities for employment. [READ MORE](#)

PROJECTED JOBS

12,600

MEDIAN SALARY

\$84,060

EDUCATION NEEDED

Master's

World's Best Places to Visit

With a world full of fascinating destinations, choosing the perfect place to vacation can present a challenge. That's why U.S. News used expert opinions, user votes and current trends, in addition to evaluating sights, cultures, scenic beauty, food scenes and more, to compile this list. Use these recommendations to craft your travel bucket list, and cast your vote below to help us determine next year's list. [Take a photo tour of the World's Best Places to Visit »](#)



[Read Best Vacations Methodology »](#)

SUMMARY ▾



Paris

🏆 #1 in World's Best Places to Visit

Every day, the magnetic City of Light draws visitors who travel from around the globe to see iconic attractions like the Eiffel Tower, the Louvre, Le Marais and the Arc de Triomphe in real life. But what travelers really fall in love with are the city's quaint cafes, vibrant markets, trendy shopping districts and unmistakable *je ne sais qu'on charm*. [READ MORE »](#)

Belongs on List? Yes No

[BEST HOTELS](#) | [FLIGHTS](#) | [THINGS TO DO](#)



South Island, New Zealand

🏆 #2 in World's Best Places to Visit

New Zealand's South Island brims with majestic landscapes at every turn, from dramatic mountains to fjords to glaciers. Here, you can explore Fiordland National Park, a UNESCO World Heritage Area, or gaze at the starry skies at Mount John Observatory. You can also indulge your inner daredevil in Queenstown, explore two of the most accessible glaciers in the world on the west coast or sample delicious food and wine in Marlborough.

Belongs on List? Yes No

[FLIGHTS](#)



Rome



Best Diets Overall

U.S. News evaluated and ranked the 41 diets below with input from a panel of health experts. To be top-rated, a diet had to be relatively easy to follow, nutritious, safe, effective for weight loss and protective against diabetes and heart disease. The Mediterranean diet took the top spot, while the government-endorsed DASH diet, which stands for Dietary Approaches to Stop Hypertension, came in second.

[Read the Best Diets methodology](#)

Find a Diet

Choose Diet

Diets by Ranking

- All Diets
- Best Diets Overall
- Best Weight-Loss Diets
- Best Commercial Diets
- Best Diabetes Diets
- Best Diets for Healthy Eating
- Best Fast Weight-Loss Diets
- Best Heart-Healthy Diets
- Best Plant-Based Diets
- Easiest Diets to Follow

41 matches

SORT BY: Ranking

[Ranking: Best Diets Overall](#) [Clear All](#)

Mediterranean Diet

#1 in Best Diets Overall

With its emphasis on fruits, vegetables, olive oil, fish and other healthy fare, the Mediterranean diet is eminently sensible. [...more](#)

4.2/5 Overall Score | 3.0/5 Weight Loss | 4.9/5 Healthy



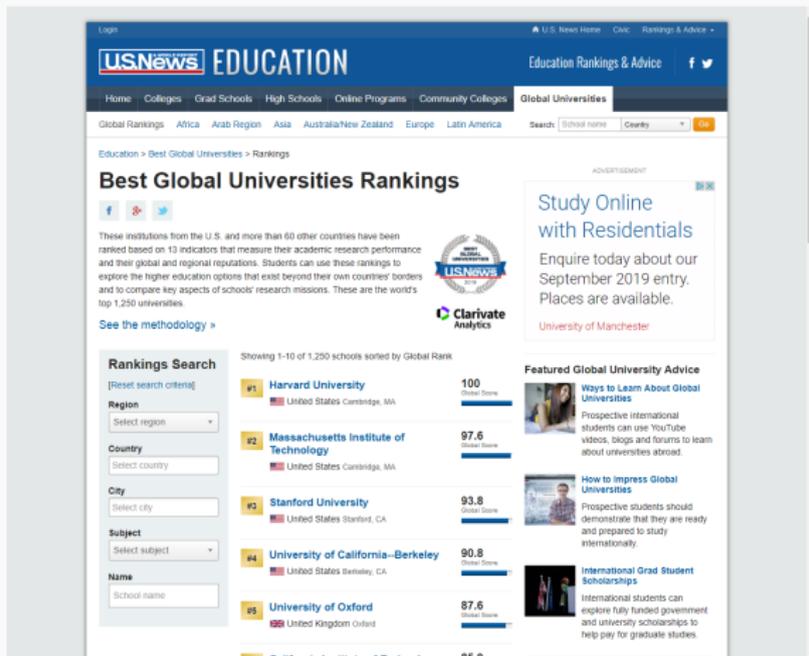
DASH Diet

#2 in Best Diets Overall

DASH fights high blood pressure and was praised for its nutritional completeness, safety, ability to prevent or control diabetes, and [...more](#)

4.1/5 Overall Score | 3.1/5 Weight Loss | 4.8/5 Healthy





The screenshot displays the 'Best Global Universities Rankings' page on the U.S. News & World Report Education website. The page features a navigation bar with 'U.S. News & World Report EDUCATION' and 'Education Rankings & Advice'. A search bar is located at the top right. The main content area includes a section for 'Best Global Universities Rankings' with a brief description of the ranking methodology and a 'See the methodology' link. A 'Rankings Search' sidebar on the left allows users to filter results by region, country, city, and subject. The main list shows the top 10 universities, including Harvard University (rank 1, score 100), Massachusetts Institute of Technology (rank 2, score 97.6), Stanford University (rank 3, score 93.8), University of California–Berkeley (rank 4, score 90.8), and University of Oxford (rank 5, score 87.6). An advertisement for 'Study Online with Residentials' by the University of Manchester is also visible on the right side of the page.

U.S. News & World Report EDUCATION Education Rankings & Advice

Home Colleges Grad Schools High Schools Online Programs Community Colleges Global Universities

Global Rankings Africa Arab Region Asia Australia/New Zealand Europe Latin America

Search School name Country Go

Education > Best Global Universities > Rankings

Best Global Universities Rankings

These institutions from the U.S. and more than 60 other countries have been ranked based on 13 indicators that measure their academic research performance and their global and regional reputations. Students can use these rankings to explore the higher education options that exist beyond their own countries' borders and to compare key aspects of schools' research missions. These are the world's top 1,250 universities.

See the methodology >

ADVERTISEMENT

Study Online with Residentials

Enquire today about our September 2019 entry. Places are available.

University of Manchester

Clarivate Analytics

Showing 1-10 of 1,250 schools sorted by Global Rank

Rankings Search

[Reset search criteria]

Region
Select region

Country
Select country

City
Select city

Subject
Select subject

Name
School name

#1	Harvard University United States Cambridge, MA	100 Global Score
#2	Massachusetts Institute of Technology United States Cambridge, MA	97.6 Global Score
#3	Stanford University United States Stanford, CA	93.8 Global Score
#4	University of California–Berkeley United States Berkeley, CA	90.8 Global Score
#5	University of Oxford United Kingdom Oxford	87.6 Global Score
#6	California Institute of Technology United States Pasadena, CA	85.9 Global Score

Featured Global University Advice

Ways to Learn About Global Universities
Prospective international students can use YouTube videos, blogs and forums to learn about universities abroad.

How to Impress Global Universities
Prospective students should demonstrate that they are ready and prepared to study internationally.

International Grad Student Scholarships
International students can explore fully funded government and university scholarships to help pay for graduate studies.

U.S. News & World Report

- ▶ Od 1983 roku ranking amerykańskich szkół (na podstawie m. in. ankiet)
- ▶ Od 2014 roku ranking „Best Global Universities” (InCites)

Thirteen indicators were used to calculate this institution's overall Best Global Universities rank. Here is a breakdown of how this institution ranked relative to other schools for each indicator. [See the methodology](#) »



Global score	100.0
Global research reputation	#1
Regional research reputation	#1
Publications	#1
Books	#2
Conferences	#118
Normalized citation impact	#12
Total citations	#1
Number of publications that are among the 10 percent most cited	#1
Percentage of total publications that are among the 10 percent most cited	#6
International collaboration	#68
Percentage of total publications with international collaboration	#484
Number of highly cited papers that are among the top 1 percent most cited	#1
Percentage of highly cited papers that are among the top 1 percent most cited	#9

Subject Rankings

 **Agricultural Sciences**

Show Agricultural Sciences indicator rankings

 **Arts and Humanities**

Follow U.S. News Education







 **School Finder**

Select your degree level and major, then click "Find a Match"

SPONSORED SCHOOL


```
library(stringr)

get_info <- function(address) {
  message(address)

  lines <- readLines(address, encoding = "UTF-8")
  first <- grep("Thirteen indicators were used", lines)
  last <- grep("Percentage of highly cited papers", lines)

  pattern <- "^[[:space:]]+([[:digit:]]+)"
  linesFound <- grep(pattern, lines[first:last], value = TRUE)
  global <- as.numeric(linesFound)

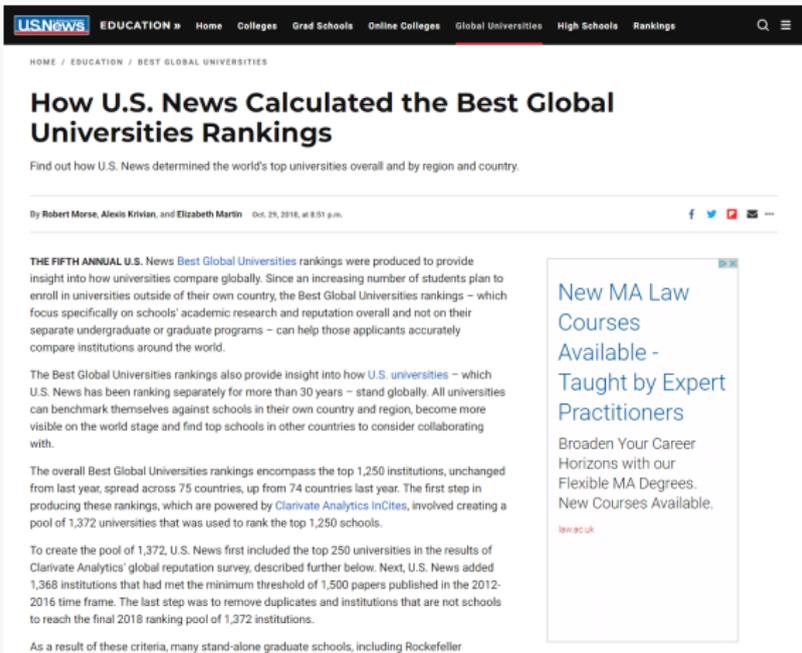
  pattern <- '#([<]*)'
  linesFound <- grep(pattern, lines[first:last], value = TRUE)
  linesFound <- str_match(linesFound, pattern)[,2]
  linesFound <- as.numeric(str_replace(linesFound, ",", ""))

  return(list(global_score = global,
             reputation_global = linesFound[1],
             reputation_regional = linesFound[2],
             publications = linesFound[3],
             books = linesFound[4],
             conferences = linesFound[5],
             nci = linesFound[6],
             citations = linesFound[7],
             pub10 = linesFound[8],
             pub10_pc = linesFound[9],
             int_collab = linesFound[10],
             int_collab_pc = linesFound[11],
             hot = linesFound[12],
             hot_pc = linesFound[13]))
}

usnews <- data.frame()

for(page in 1 : 125) {
  message("Page ", page)
```

rank	name	country	link	global_score	reputation_global	reputation_regional	publications
1	Harvard University	United States	https://www...	100.0	1	1	1
2	Massachusetts Institute of Technology	United States	https://www...	97.6	2	3	31
3	Stanford University	United States	https://www...	93.8	3	2	9
4	University of California Berkeley	United States	https://www...	90.8	5	4	19
5	University of Oxford	United Kingdom	https://www...	87.6	6	3	5
6	California Institute of Technology	United States	https://www...	85.9	10	13	150
7	University of Cambridge	United Kingdom	https://www...	85.8	4	1	10
8	Columbia University	United States	https://www...	85.6	12	7	17
9	Princeton University	United States	https://www...	84.7	7	6	157
10	University of Washington	United States	https://www...	84.6	28	17	11
11	Yale University	United States	https://www...	84.2	9	9	30
12	Johns Hopkins University	United States	https://www...	83.9	18	12	7
13	University of California Los Angeles	United States	https://www...	83.6	8	8	13
14	University of Chicago	United States	https://www...	83.4	13	10	39
15	University of California San Francisco	United States	https://www...	83.2	31	25	45
16	University of Pennsylvania	United States	https://www...	82.7	17	11	14
17	University of California San Diego	United States	https://www...	82.4	35	27	29
18	Imperial College London	United Kingdom	https://www...	82.3	15	11	22
19	University of Michigan Ann Arbor	United States	https://www...	82.3	11	5	6
20	University of Toronto	Canada	https://www...	81.9	20	21	2
21	University College London	United Kingdom	https://www...	81.6	24	13	4
22	Duke University	United States	https://www...	81.2	30	16	34
23	Cornell University	United States	https://www...	80.5	19	14	32
24	Northwestern University	United States	https://www...	78.6	32	22	53
25	Swiss Federal Institute of Technology Zurich	Switzerland	https://www...	78.4	16	4	57
26	University of Melbourne	Australia	https://www...	77.5	42	1	28



USNews EDUCATION » Home Colleges Grad Schools Online Colleges Global Universities High Schools Rankings 🔍 ☰

HOME / EDUCATION / BEST GLOBAL UNIVERSITIES

How U.S. News Calculated the Best Global Universities Rankings

Find out how U.S. News determined the world's top universities overall and by region and country.

By Robert Morse, Alexis Krivan, and Elizabeth Martin Oct. 25, 2018, at 8:51 p.m. [f](#) [t](#) [v](#) [e](#) [m](#)

THE FIFTH ANNUAL U.S. News Best Global Universities rankings were produced to provide insight into how universities compare globally. Since an increasing number of students plan to enroll in universities outside of their own country, the Best Global Universities rankings – which focus specifically on schools' academic research and reputation overall and not on their separate undergraduate or graduate programs – can help those applicants accurately compare institutions around the world.

The Best Global Universities rankings also provide insight into how U.S. universities – which U.S. News has been ranking separately for more than 30 years – stand globally. All universities can benchmark themselves against schools in their own country and region, become more visible on the world stage and find top schools in other countries to consider collaborating with.

The overall Best Global Universities rankings encompass the top 1,250 institutions, unchanged from last year, spread across 75 countries, up from 74 countries last year. The first step in producing these rankings, which are powered by Clarivate Analytics InCites, involved creating a pool of 1,372 universities that was used to rank the top 1,250 schools.

To create the pool of 1,372, U.S. News first included the top 250 universities in the results of Clarivate Analytics' global reputation survey, described further below. Next, U.S. News added 1,368 institutions that had met the minimum threshold of 1,500 papers published in the 2012-2016 time frame. The last step was to remove duplicates and institutions that are not schools to reach the final 2018 ranking pool of 1,372 institutions.

As a result of these criteria, many stand-alone graduate schools, including Rockefeller

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Lista uniwersytetów

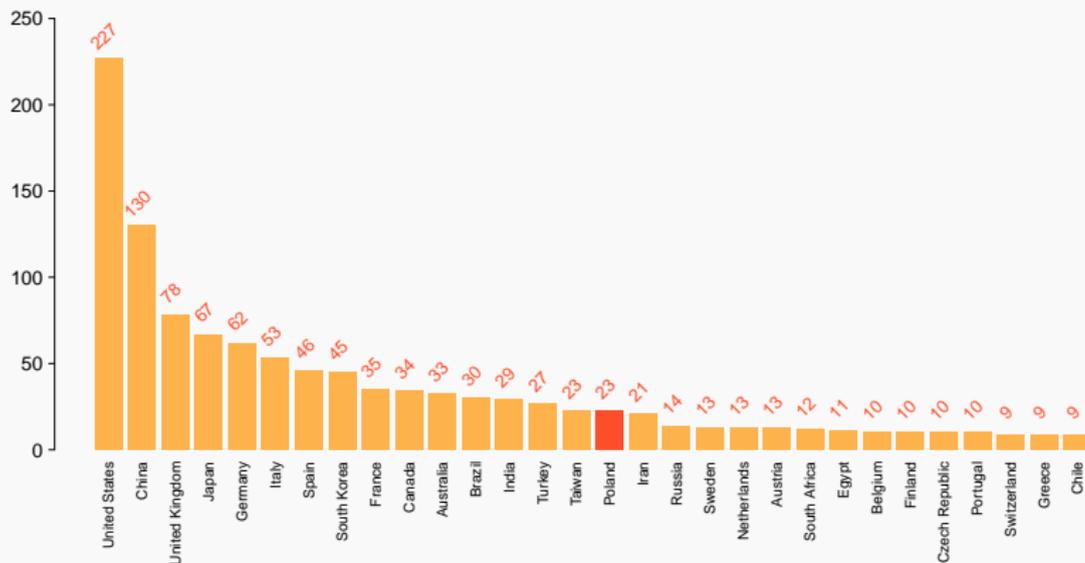
W sumie 1372 uniwersytety

- ▶ 250 najwyżej punktowanych w ankiecie reputacji
- ▶ 1368 instytucji z minimum 1500 publikacjami w latach 2012-2016
- ▶ Ostateczna lista 1372 uniwersytetów - połączenie powyższych i usunięcie duplikatów

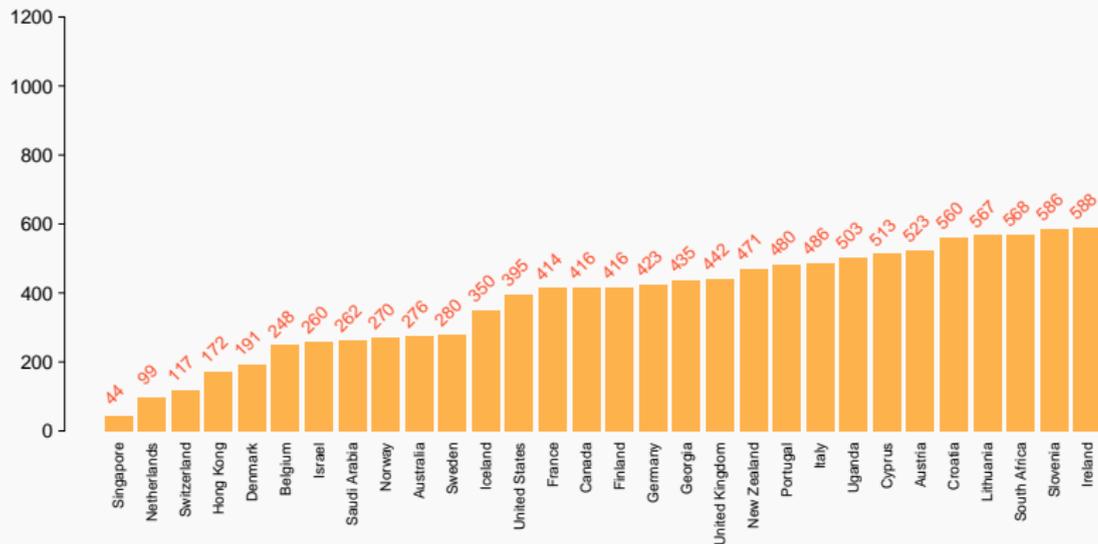
Kraje

- ▶ W rankingu znajdują się uczelnie z 75 krajów
- ▶ W tym 23 uczelnie z Polski

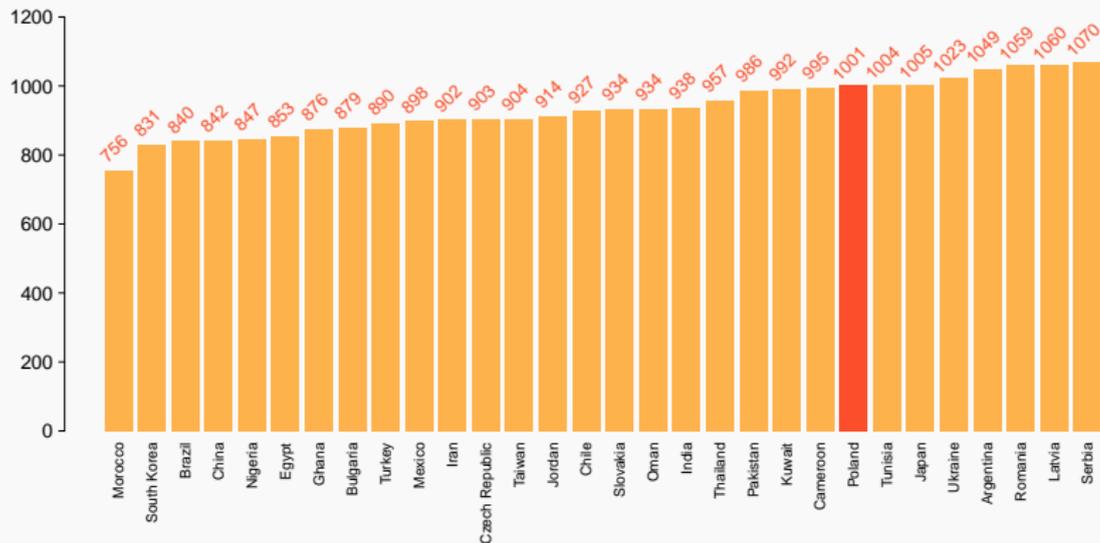
Kraje w rankingu



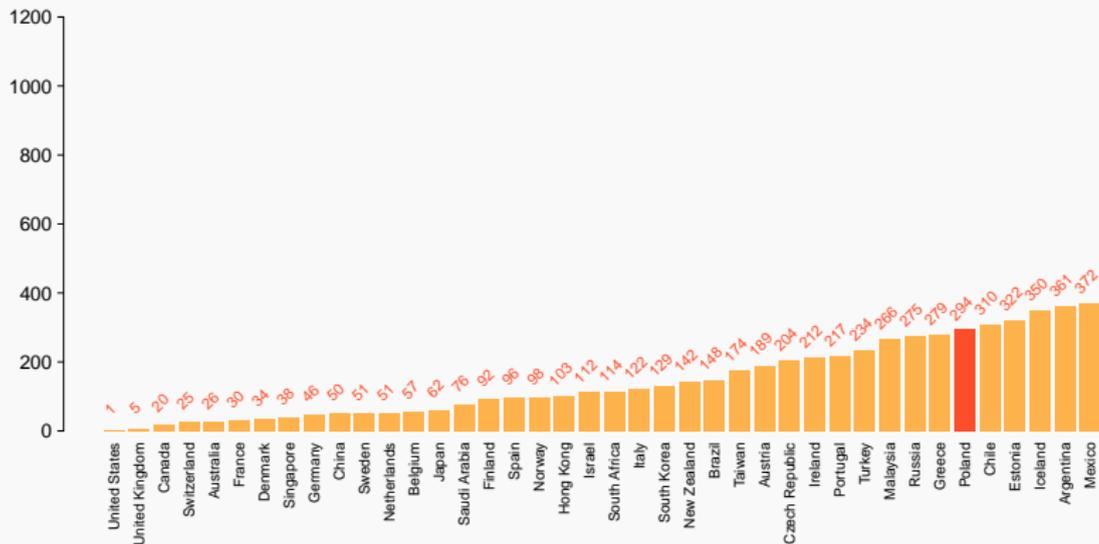
Kraje w rankingu



Kraje w rankingu



Kraje w rankingu



Reputation Indicators

- ▶ Global research reputation (12.5%)
- ▶ Regional research reputation (12.5%)

Bibliometric Indicators

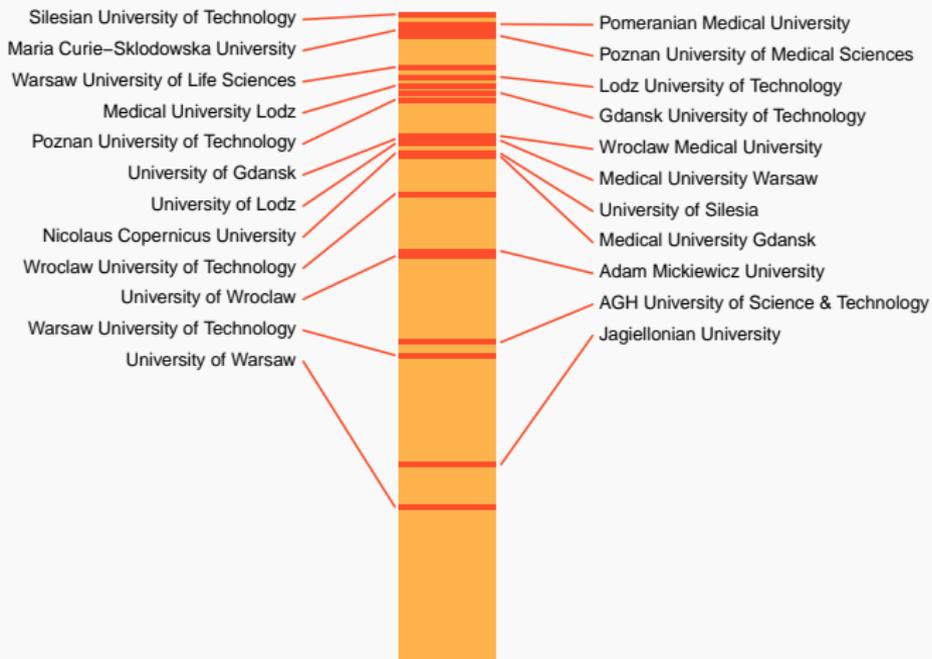
- ▶ Publications (10.0%)
- ▶ Books (2.5%)
- ▶ Conferences (2.5%)
- ▶ Normalized citation impact (10.0%)
- ▶ Total citations (7.5%)
- ▶ 10% most cited (12.5%)
- ▶ 10% most cited (%) (10.0%)
- ▶ International collaboration (5.0%)
- ▶ International collaboration (%) (5.0%)

Scientific Excellence Indicators

- ▶ Top 1% most cited (5.0%)
- ▶ Top 1% most cited (%) (5.0%)

Rank	Name	Country
1	Harvard University	United States
2	Massachusetts Institute of Technology	United States
3	Stanford University	United States
4	University of California Berkeley	United States
5	University of Oxford	United Kingdom
6	California Institute of Technology	United States
7	University of Cambridge	United Kingdom
8	Columbia University	United States
9	Princeton University	United States
10	University of Washington	United States

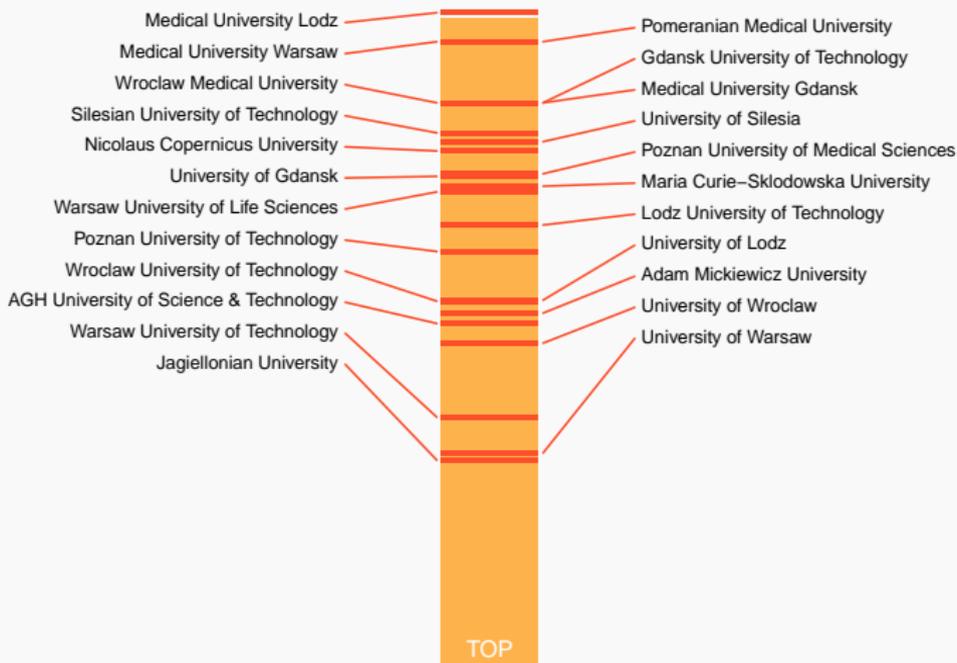
Rank	Name	Country
294	University of Warsaw	Poland
376	Jagiellonian University	Poland
587	Warsaw University of Technology	Poland
612	AGH University of Science & Technology	Poland
778	University of Wrocław	Poland
788	Adam Mickiewicz University	Poland
898	Wrocław University of Technology	Poland
970	Medical University Gdansk	Poland
976	Nicolaus Copernicus University	Poland
976	University of Silesia	Poland
995	University of Lodz	Poland
1001	Medical University Warsaw	Poland
1004	University of Gdansk	Poland
1010	Wrocław Medical University	Poland
1080	Poznan University of Technology	Poland
1093	Gdansk University of Technology	Poland
1107	Medical University Lodz	Poland
1124	Lodz University of Technology	Poland
1143	Warsaw University of Life Sciences	Poland
1203	Poznan University of Medical Sciences	Poland
1214	Maria Curie-Skłodowska University	Poland
1226	Pomeranian Medical University	Poland
1245	Silesian University of Technology	Poland



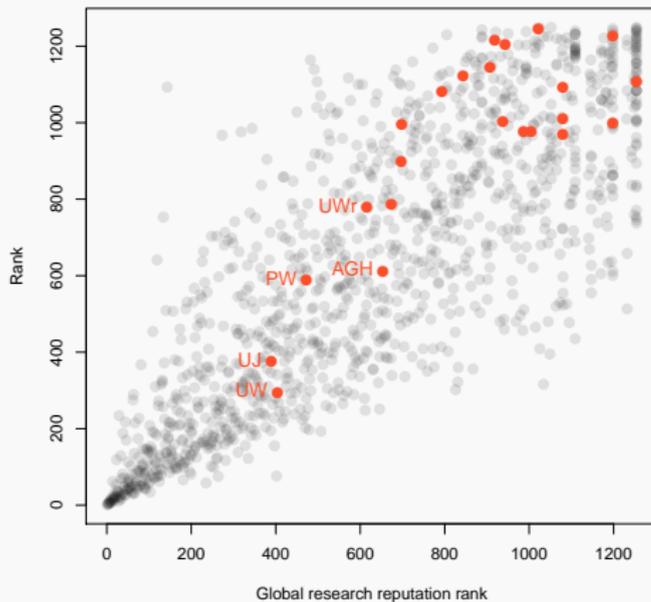
Global research reputation

- ▶ Na podstawie Academic Reputation Survey
- ▶ Agregacja pięciu lat wyników ankiety

Wskaźniki - Global research reputation (12.5%)



Wskaźniki - Global research reputation (12.5%)



Wskaźniki - Global research reputation (12.5%)

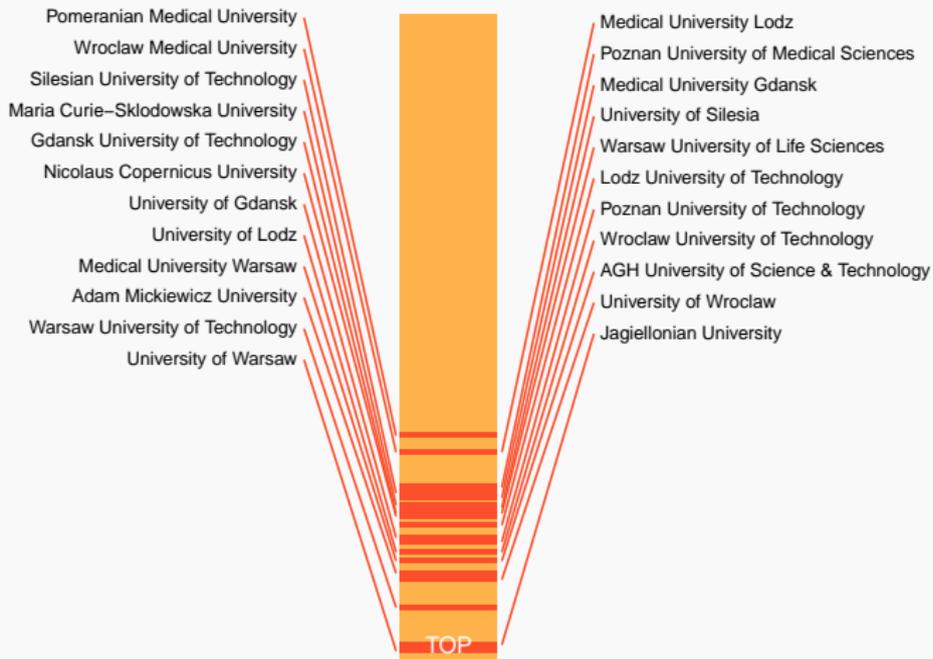


Name	Rank	Global research reputation
Jagiellonian University	376	390
University of Warsaw	294	404
Warsaw University of Technology	587	473
University of Wrocław	778	616
AGH University of Science & Technology	612	654
Adam Mickiewicz University	788	674
Wrocław University of Technology	898	697
University of Łódź	995	699
Poznań University of Technology	1080	793
Łódź University of Technology	1124	844
Warsaw University of Life Sciences	1143	908
Maria Curie-Skłodowska University	1214	919
University of Gdańsk	1004	938
Poznań University of Medical Sciences	1203	943
Nicolaus Copernicus University	976	987
University of Silesia	976	1005
Silesian University of Technology	1245	1022
Medical University Gdańsk	970	1080
Wrocław Medical University	1010	1080
Gdańsk University of Technology	1093	1080
Medical University Warsaw	1001	1198
Pomeranian Medical University	1226	1198
Medical University Łódź	1107	1254

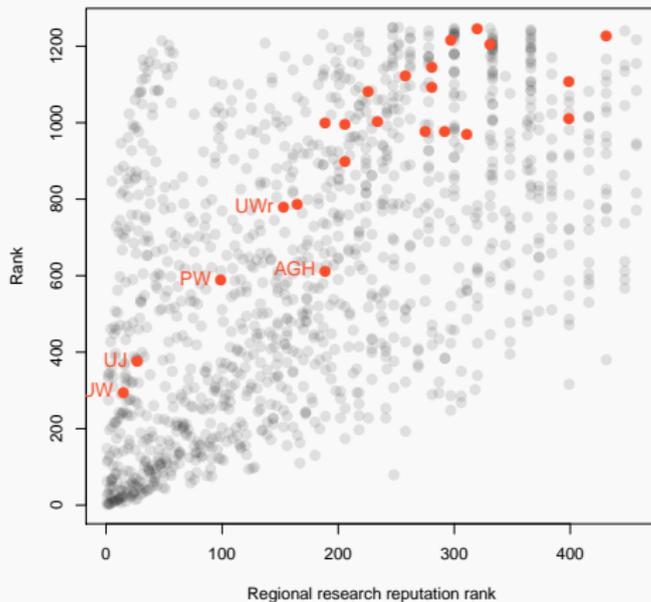
Regional research reputation

- ▶ Na podstawie Academic Reputation Survey
- ▶ Agregacja pięciu lat wyników ankiety
- ▶ Zawężone do poszczególnych regionów

Wskaźniki - Regional research reputation (12.5%)



Wskaźniki - Regional research reputation (12.5%)



Wskaźniki - Regional research reputation (12.5%)

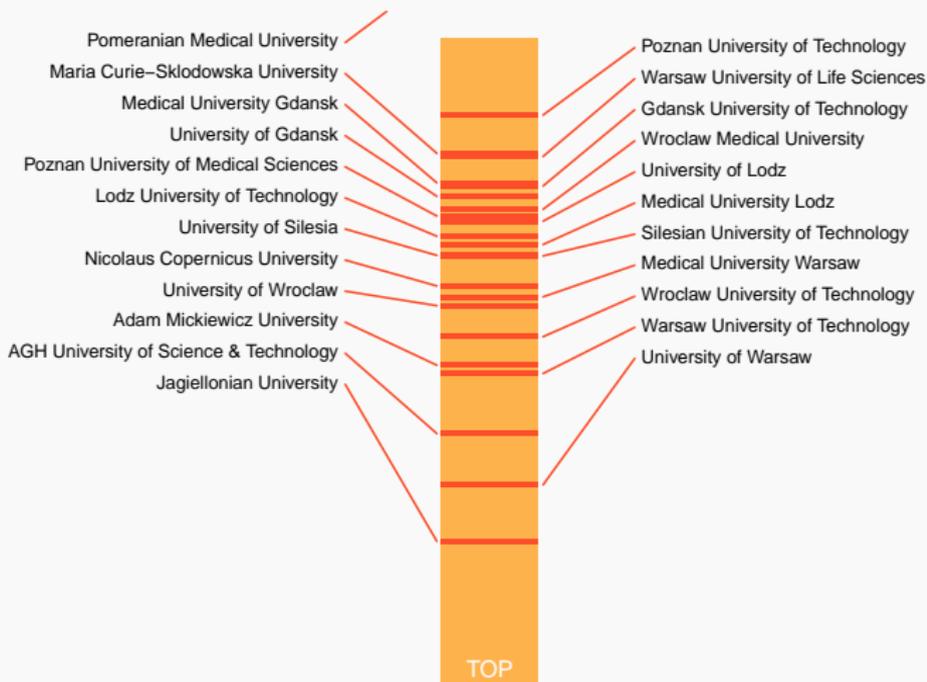


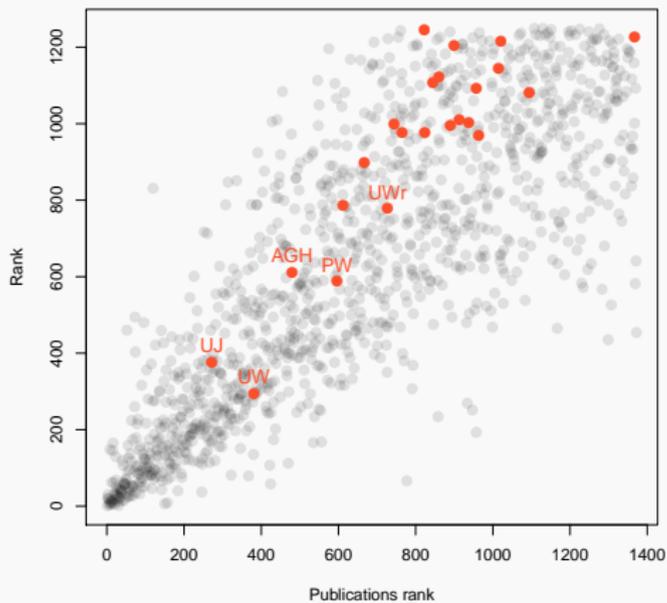
Name	Rank	Regional research reputation
University of Warsaw	294	15
Jagiellonian University	376	27
Warsaw University of Technology	587	99
University of Wrocław	778	153
Adam Mickiewicz University	788	165
AGH University of Science & Technology	612	189
Medical University Warsaw	1001	189
Wrocław University of Technology	898	206
University of Łódź	995	206
Poznań University of Technology	1080	226
University of Gdańsk	1004	234
Łódź University of Technology	1124	258
Nicolaus Copernicus University	976	275
Gdańsk University of Technology	1093	281
Warsaw University of Life Sciences	1143	281
University of Silesia	976	292
Małgorzata Dobrzańska University of Economics and Business Administration	1214	297
Medical University Gdańsk	970	311
Silesian University of Technology	1245	320
Poznań University of Medical Sciences	1203	331
Wrocław Medical University	1010	399
Medical University Łódź	1107	399
Pomeranian Medical University	1226	431

Publications

- ▶ Liczba publikacji uniwersytetu
- ▶ Mierzy produktywność
- ▶ Powiązany jest z wielkością uniwersytetu i z dyscyplinami

Wskaźniki - Publications (10.0%)



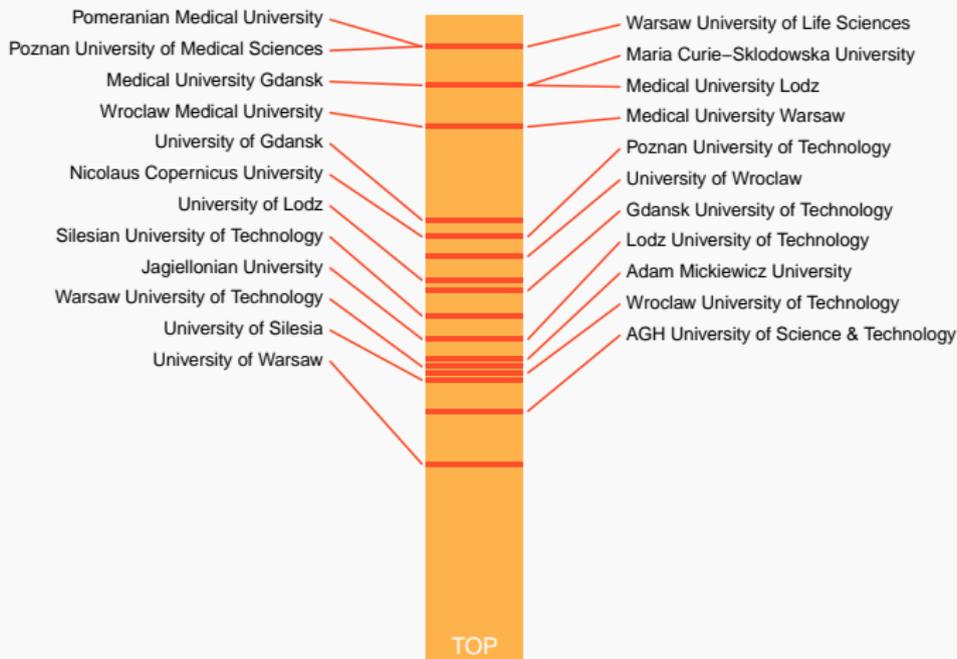


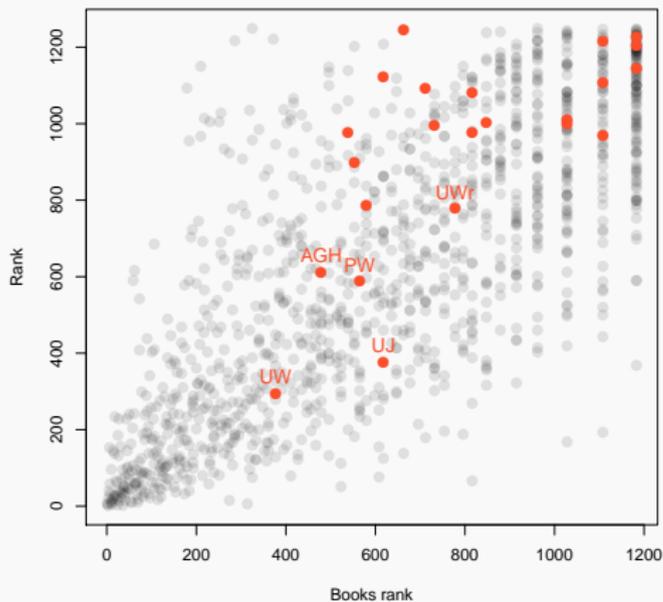
Name	Rank	Publications
Jagiellonian University	376	272
University of Warsaw	294	381
AGH University of Science & Technology	612	480
Warsaw University of Technology	587	596
Adam Mickiewicz University	788	612
Wrocław University of Technology	898	667
University of Wrocław	778	727
Medical University Warsaw	1001	744
Nicolaus Copernicus University	976	765
Silesian University of Technology	1245	823
University of Silesia	976	824
Medical University Lodz	1107	845
Lodz University of Technology	1124	861
University of Lodz	995	890
Poznan University of Medical Sciences	1203	900
Wrocław Medical University	1010	913
University of Gdansk	1004	938
Gdansk University of Technology	1093	958
Medical University Gdansk	970	964
Warsaw University of Life Sciences	1143	1015
Małgorzata Skłodowska-Curie University	1214	1021
Poznan University of Technology	1080	1095
Pomeranian Medical University	1226	1368

Books

- ▶ Liczba opublikowanych książek
- ▶ Uzupelnienie wskaźnika publikacji
- ▶ Lepiej oddaje uniwersytety

Wskaźniki - Books (2.5%)



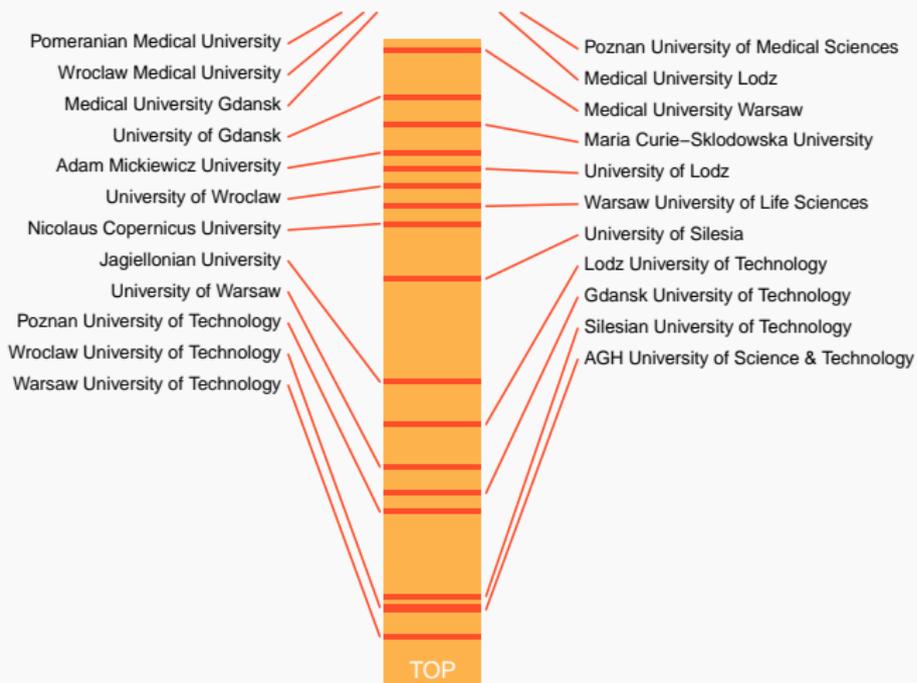


Name	Rank	Books
University of Warsaw	294	377
AGH University of Science & Technology	612	479
University of Silesia	976	539
Wroclaw University of Technology	898	553
Warsaw University of Technology	587	565
Adam Mickiewicz University	788	580
Jagiellonian University	376	618
Lodz University of Technology	1124	618
Silesian University of Technology	1245	663
Gdansk University of Technology	1093	712
University of Lodz	995	732
University of Wroclaw	778	778
Nicolaus Copernicus University	976	816
Poznan University of Technology	1080	816
University of Gdansk	1004	848
Medical University Warsaw	1001	1028
Wroclaw Medical University	1010	1028
Medical University Gdansk	970	1108
Medical University Lodz	1107	1108
Maria Curie-Skłodowska University	1214	1108
Warsaw University of Life Sciences	1143	1183
Poznan University of Medical Sciences	1203	1183
Pomeranian Medical University	1226	1183

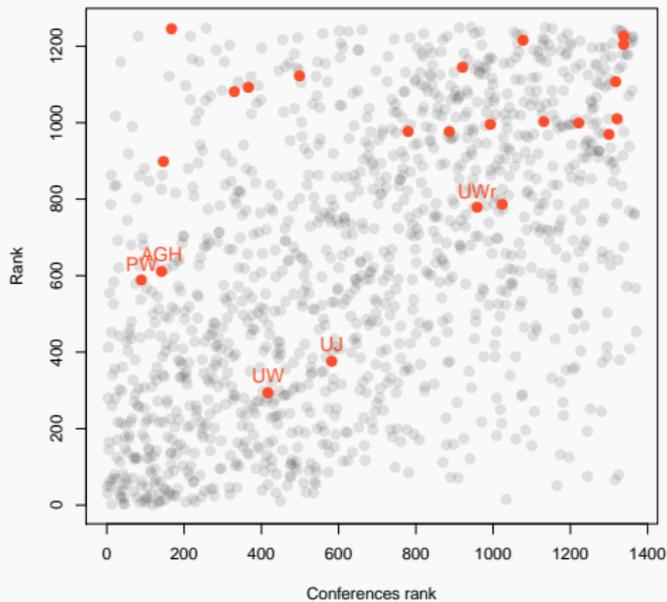
Conferences

- ▶ Liczba publikacji konferencyjnych
- ▶ Może reprezentować ważne odkrycia, które nie są publikowane w inny sposób

Wskaźniki - Conferences (2.5%)



Wskaźniki - Conferences (2.5%)



Name	Rank	Conferences
Warsaw University of Technology	587	90
AGH University of Science & Technology	612	142
Wroclaw University of Technology	898	147
Silesian University of Technology	1245	168
Poznan University of Technology	1080	331
Gdansk University of Technology	1093	367
University of Warsaw	294	418
Lodz University of Technology	1124	500
Jagiellonian University	376	582
University of Silesia	976	781
Nicolaus Copernicus University	976	887
Warsaw University of Life Sciences	1143	921
University of Wroclaw	778	959
University of Lodz	995	993
Adam Mickiewicz University	788	1024
Maria Curie-Skłodowska University	1214	1078
University of Gdansk	1004	1132
Medical University Warsaw	1001	1222
Medical University Gdansk	970	1301
Medical University Lodz	1107	1318
Wroclaw Medical University	1010	1321
Poznan University of Medical Sciences	1203	1338
Pomeranian Medical University	1226	1338

NCI

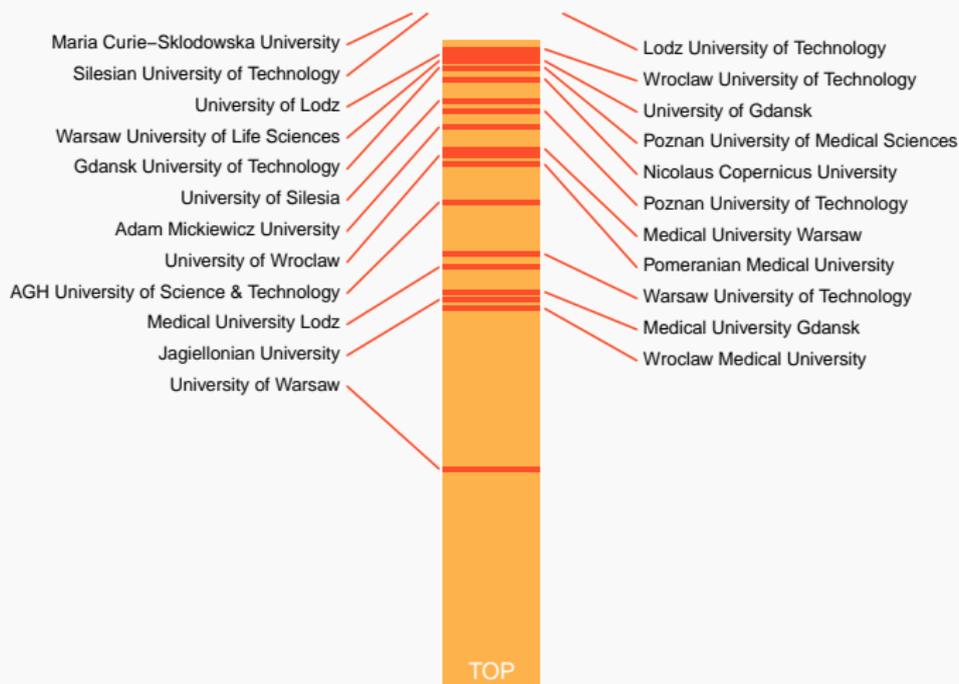
- ▶ Stosunek liczby cytowań do oczekiwanej liczby cytowań

$$CNCI = \frac{c}{e_{ftd}}$$

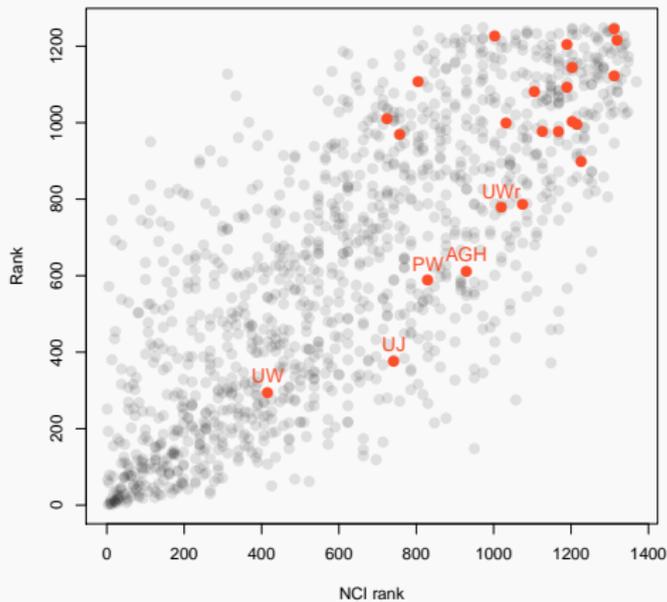
$$CNCI = \frac{1}{n} \sum_n \frac{c}{e_{f_n t d}}$$

$$CNCI = \frac{1}{n} \sum_n CNCI_n$$

Wskaźniki - Normalized citation impact (10.0%)



Wskaźniki - Normalized citation impact (10.0%)



Wskaźniki - Normalized citation impact (10.0%)



Name	Rank	NCI
University of Warsaw	294	416
Wroclaw Medical University	1010	725
Jagiellonian University	376	742
Medical University Gdansk	970	757
Medical University Lodz	1107	805
Warsaw University of Technology	587	830
AGH University of Science & Technology	612	930
Pomeranian Medical University	1226	1003
University of Wroclaw	778	1020
Medical University Warsaw	1001	1033
Adam Mickiewicz University	788	1075
Poznan University of Technology	1080	1106
University of Silesia	976	1126
Nicolaus Copernicus University	976	1168
Gdansk University of Technology	1093	1190
Poznan University of Medical Sciences	1203	1190
University of Gdansk	1004	1203
Warsaw University of Life Sciences	1143	1203
University of Lodz	995	1215
Wroclaw University of Technology	898	1226
Lodz University of Technology	1124	1312
Silesian University of Technology	1245	1312
Maria Curie-Skłodowska University	1214	1320

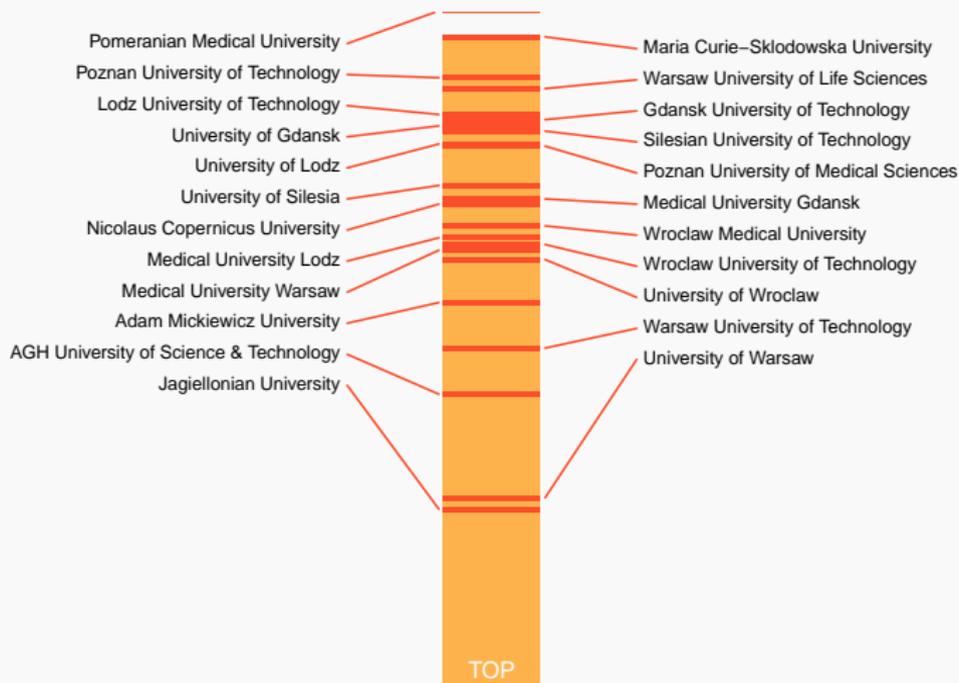
Total citations

- ▶ Obliczony jako

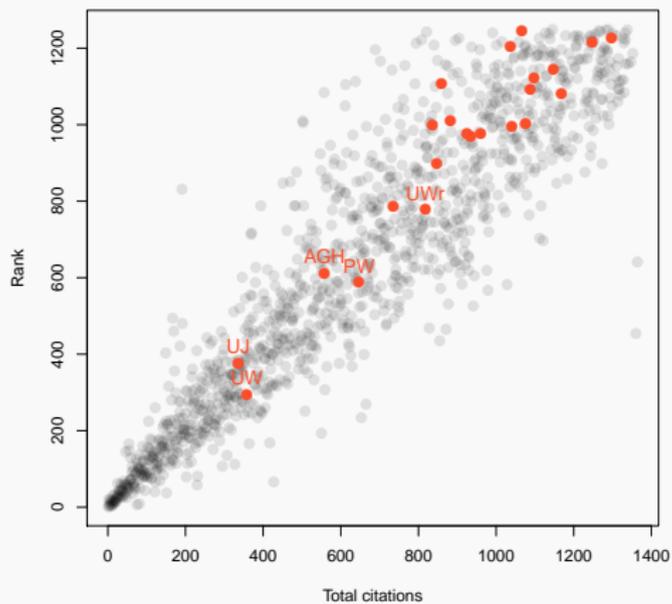
Publications * NCI

- ▶ Oddaje pozycję uniwersytetu w globalnej społeczności naukowej

Wskaźniki - Total citations (7.5%)



Wskaźniki - Total citations (7.5%)



Wskaźniki - Total citations (7.5%)

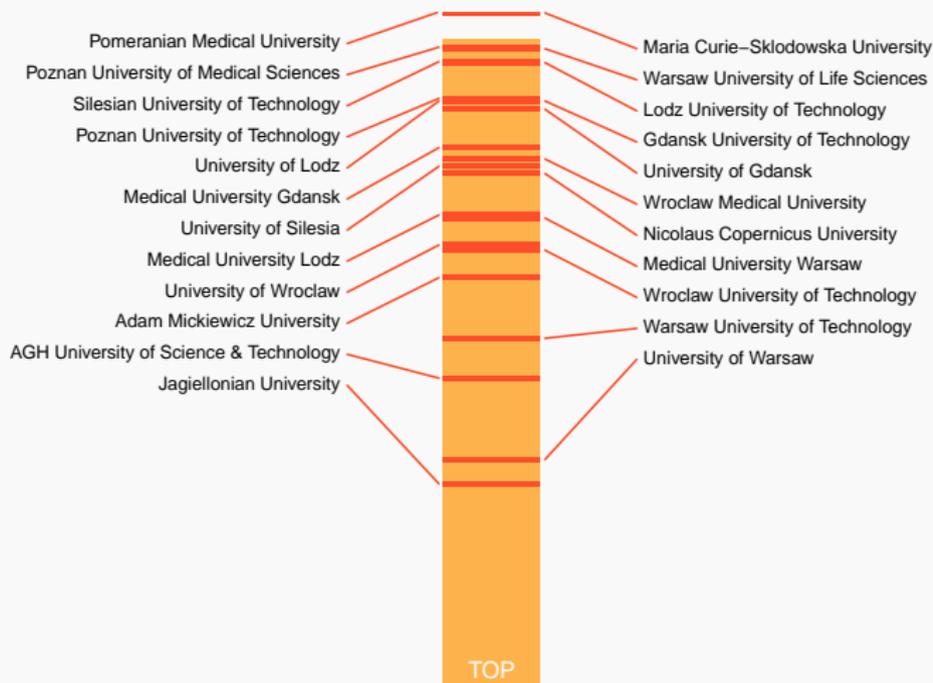


Name	Rank	Total citations
Jagiellonian University	376	336
University of Warsaw	294	358
AGH University of Science & Technology	612	558
Warsaw University of Technology	587	647
Adam Mickiewicz University	788	735
University of Wrocław	778	818
Medical University Warsaw	1001	836
Wrocław University of Technology	898	847
Medical University Łódź	1107	860
Wrocław Medical University	1010	883
Nicolaus Copernicus University	976	925
Medical University Gdańsk	970	935
University of Silesia	976	961
Poznań University of Medical Sciences	1203	1037
University of Łódź	995	1041
Silesian University of Technology	1245	1066
University of Gdańsk	1004	1076
Gdańsk University of Technology	1093	1088
Łódź University of Technology	1124	1098
Warsaw University of Life Sciences	1143	1148
Poznań University of Technology	1080	1169
Maria Curie-Skłodowska University	1214	1248
Pomeranian Medical University	1226	1298

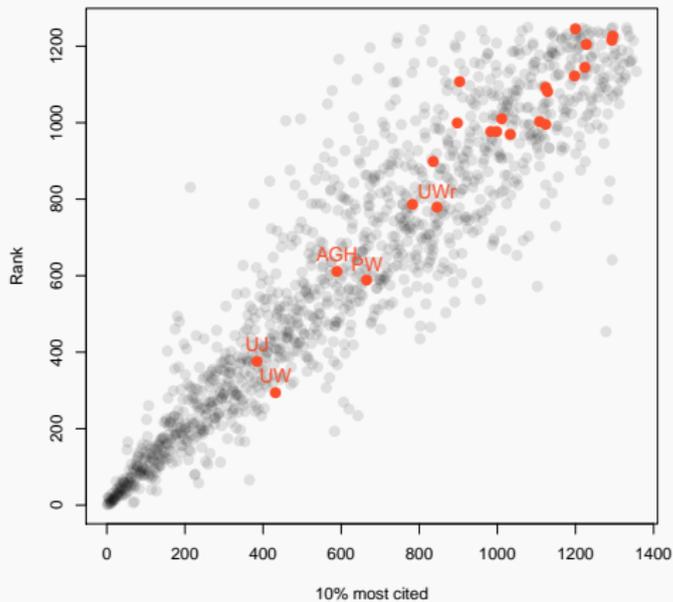
10% most cited

- ▶ Liczba publikacji wśród 10% najbardziej cytowanych
- ▶ Zależy od wielkości uniwersytetu

Wskaźniki - 10% most cited (12.5%)



Wskaźniki - 10% most cited (12.5%)



Wskaźniki - 10% most cited (12.5%)

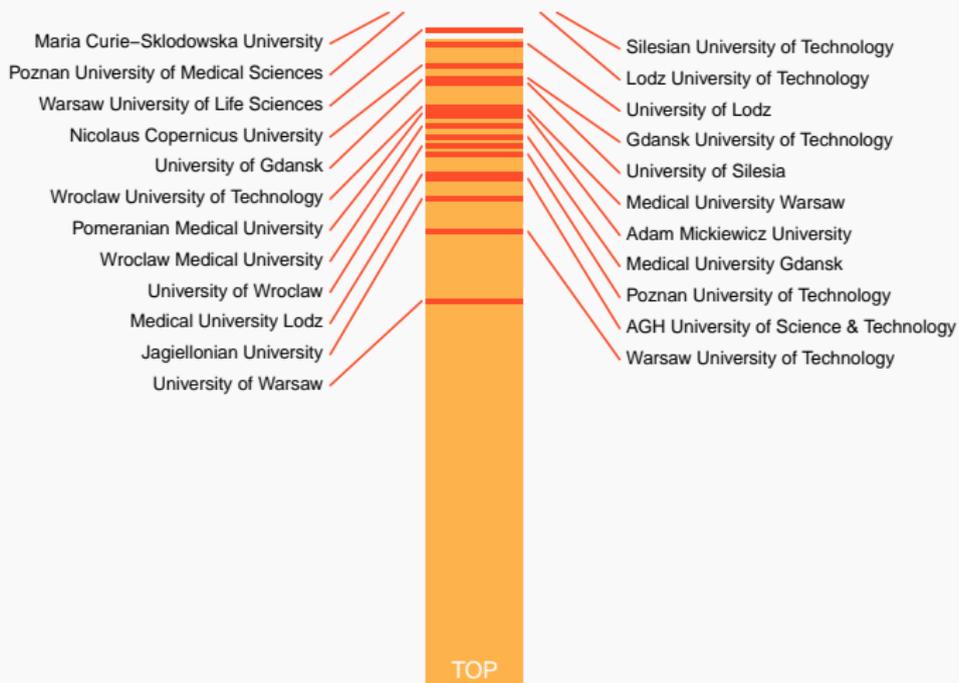


Name	Rank	10% most cited
Jagiellonian University	376	385
University of Warsaw	294	432
AGH University of Science & Technology	612	589
Warsaw University of Technology	587	666
Adam Mickiewicz University	788	783
Wroclaw University of Technology	898	836
University of Wroclaw	778	846
Medical University Warsaw	1001	898
Medical University Lodz	1107	904
Nicolaus Copernicus University	976	984
University of Silesia	976	998
Wroclaw Medical University	1010	1012
Medical University Gdansk	970	1034
University of Gdansk	1004	1108
University of Lodz	995	1124
Gdansk University of Technology	1093	1124
Poznan University of Technology	1080	1129
Lodz University of Technology	1124	1198
Silesian University of Technology	1245	1200
Warsaw University of Life Sciences	1143	1225
Poznan University of Medical Sciences	1203	1228
Maria Curie-Skłodowska University	1214	1294
Pomeranian Medical University	1226	1296

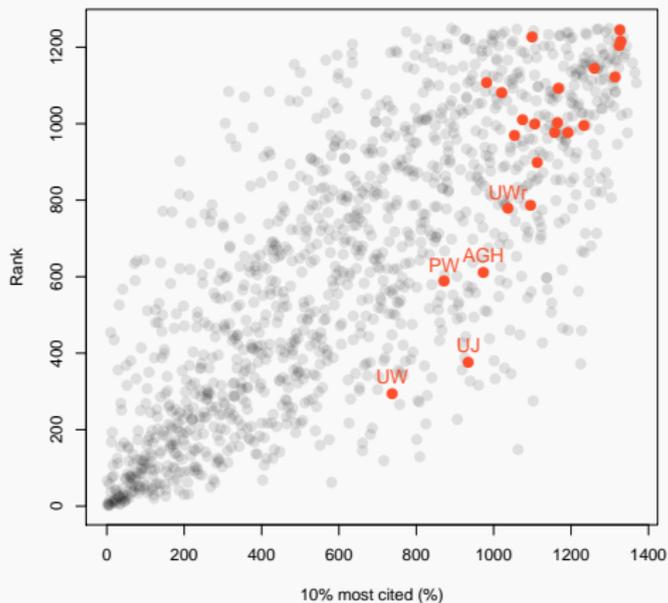
% of 10% most cited

- ▶ Procent publikacji wśród 10% najbardziej cytowanych
- ▶ Nie zależy od wielkości uniwersytetu

Wskaźniki - 10% most cited (%) (10.0%)



Wskaźniki - 10% most cited (%) (10.0%)



Wskaźniki - 10% most cited (%) (10.0%)

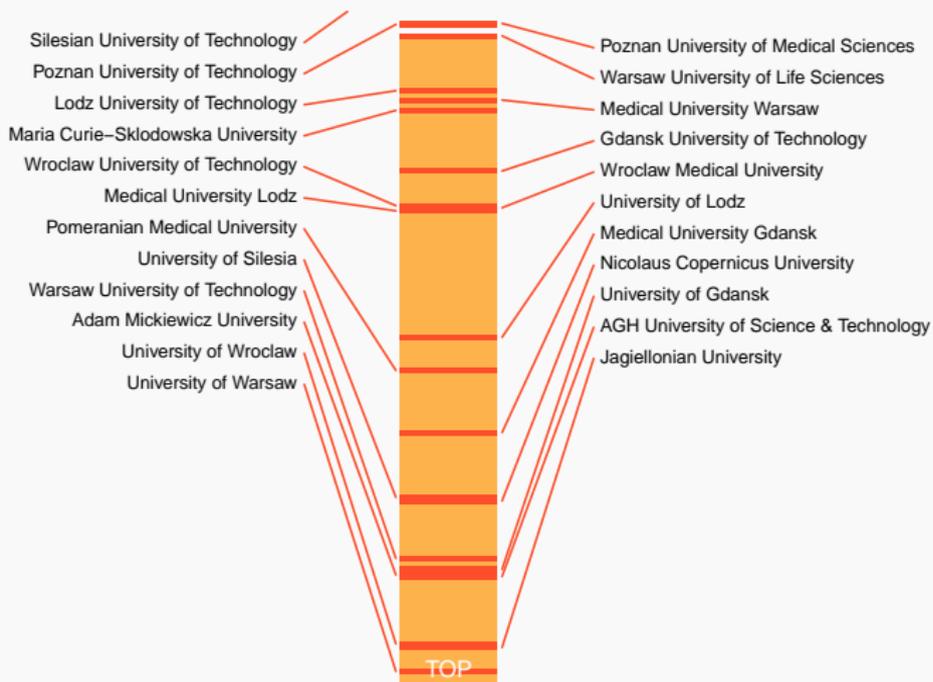


Name	Rank	10% most cited (%)
University of Warsaw	294	738
Warsaw University of Technology	587	872
Jagiellonian University	376	935
AGH University of Science & Technology	612	974
Medical University Lodz	1107	982
Poznan University of Technology	1080	1021
University of Wroclaw	778	1037
Medical University Gdansk	970	1054
Wroclaw Medical University	1010	1075
Adam Mickiewicz University	788	1096
Pomeranian Medical University	1226	1100
Medical University Warsaw	1001	1107
Wroclaw University of Technology	898	1113
University of Silesia	976	1158
University of Gdansk	1004	1165
Gdansk University of Technology	1093	1168
Nicolaus Copernicus University	976	1193
University of Lodz	995	1234
Warsaw University of Life Sciences	1143	1261
Lodz University of Technology	1124	1315
Poznan University of Medical Sciences	1203	1325
Silesian University of Technology	1245	1327
Maria Curie-Skłodowska University	1214	1329

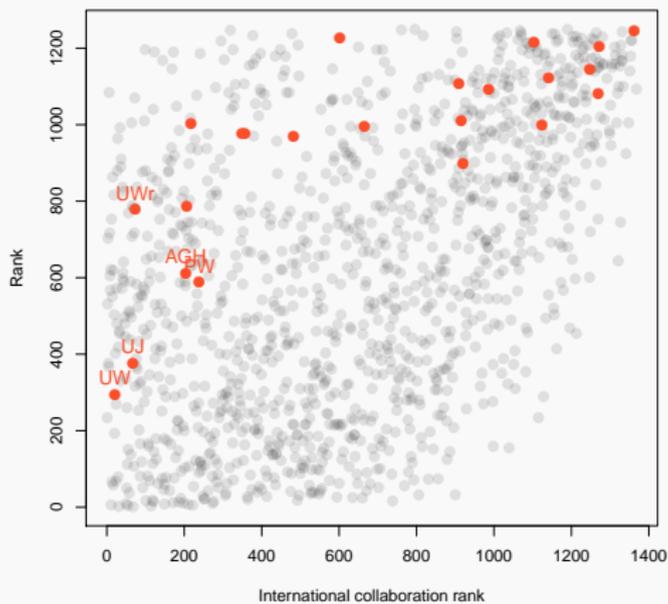
International collaboration

- ▶ Mierzy współpracę międzynarodową danej uczelni
- ▶ Obliczany jest jako stosunek % publikacji uczelni zawierających autora z innego kraju do % publikacji z danego kraju zawierających autora z innego kraju

Wskaźniki - International collaboration (5.0%)



Wskaźniki - International collaboration (5.0%)



Wskaźniki - International collaboration (5.0%)

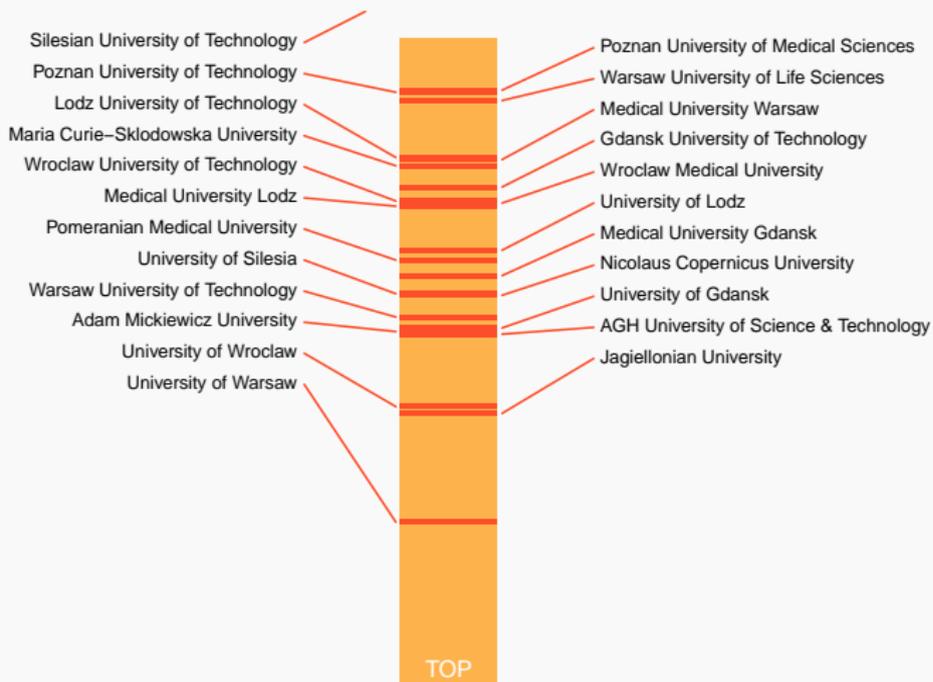


Name	Rank	International collaboration
University of Warsaw	294	21
Jagiellonian University	376	67
University of Wrocław	778	74
AGH University of Science & Technology	612	204
Adam Mickiewicz University	788	207
University of Gdańsk	1004	218
Warsaw University of Technology	587	239
Nicolaus Copernicus University	976	350
University of Silesia	976	357
Medical University Gdańsk	970	482
Pomeranian Medical University	1226	602
University of Łódź	995	666
Medical University Łódź	1107	910
Wrocław Medical University	1010	916
Wrocław University of Technology	898	920
Gdańsk University of Technology	1093	987
Maria Curie-Skłodowska University	1214	1104
Medical University Warsaw	1001	1124
Łódź University of Technology	1124	1142
Warsaw University of Life Sciences	1143	1248
Poznań University of Technology	1080	1270
Poznań University of Medical Sciences	1203	1272
Silesian University of Technology	1245	1362

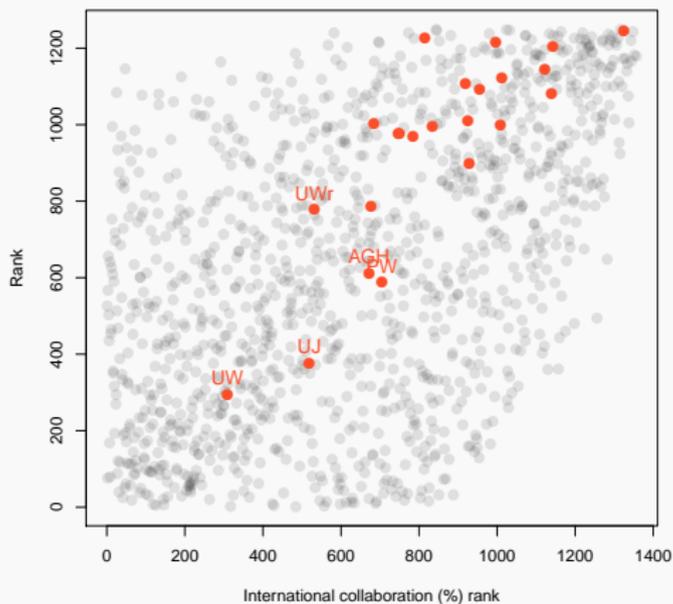
International collaboration (%)

- ▶ Mierzy współpracę międzynarodową danej uczelni
- ▶ Procent publikacji uczelni zawierających autora z innego kraju

Wskaźniki - International collaboration (%) (5.0%)



Wskaźniki - International collaboration (%) (5.0%)



Wskaźniki - International collaboration (%) (5.0%)

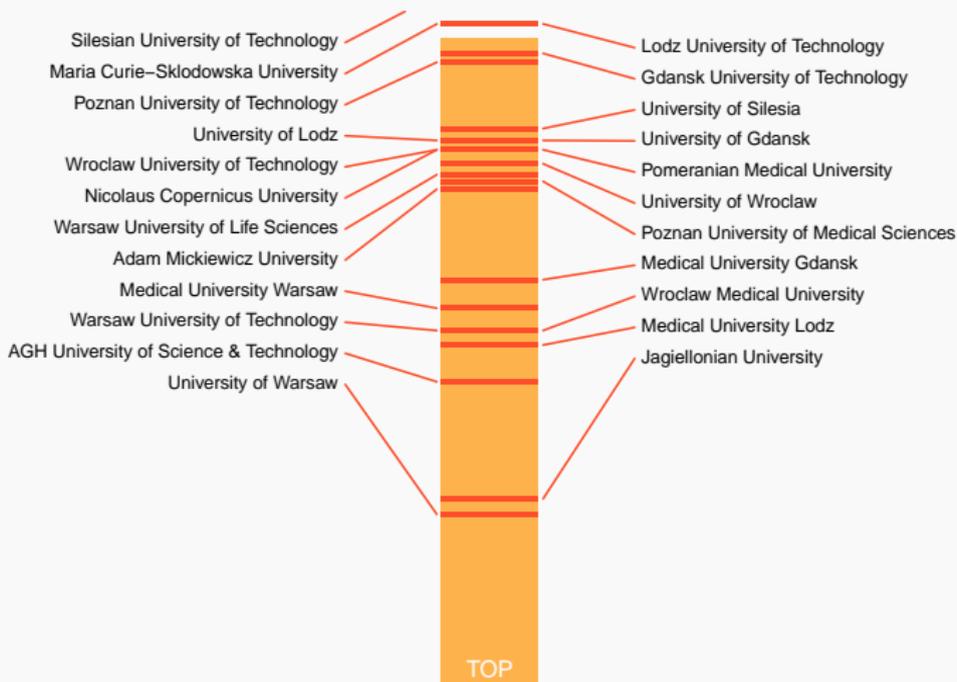


Name	Rank	International collaboration (%)
University of Warsaw	294	309
Jagiellonian University	376	519
University of Wrocław	778	532
AGH University of Science & Technology	612	672
Adam Mickiewicz University	788	677
University of Gdańsk	1004	684
Warsaw University of Technology	587	705
Nicolaus Copernicus University	976	747
University of Silesia	976	750
Medical University Gdańsk	970	785
Pomeranian Medical University	1226	815
University of Łódź	995	834
Medical University Łódź	1107	919
Wrocław Medical University	1010	925
Wrocław University of Technology	898	929
Gdańsk University of Technology	1093	956
Maria Curie-Skłodowska University	1214	997
Medical University Warsaw	1001	1009
Łódź University of Technology	1124	1013
Warsaw University of Life Sciences	1143	1123
Poznań University of Technology	1080	1139
Poznań University of Medical Sciences	1203	1143
Silesian University of Technology	1245	1325

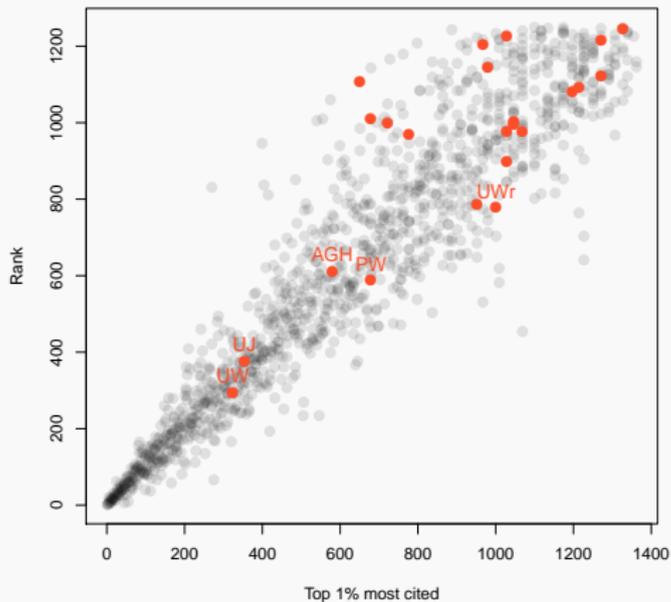
Top 1% most cited

- ▶ Liczba artykułów wśród 1% najbardziej cytowanych w danej dziedzinie
- ▶ Dane z ESI (Essential Science Indicators)

Wskaźniki - Top 1% most cited (5.0%)



Wskaźniki - Top 1% most cited (5.0%)



Wskaźniki - Top 1% most cited (5.0%)

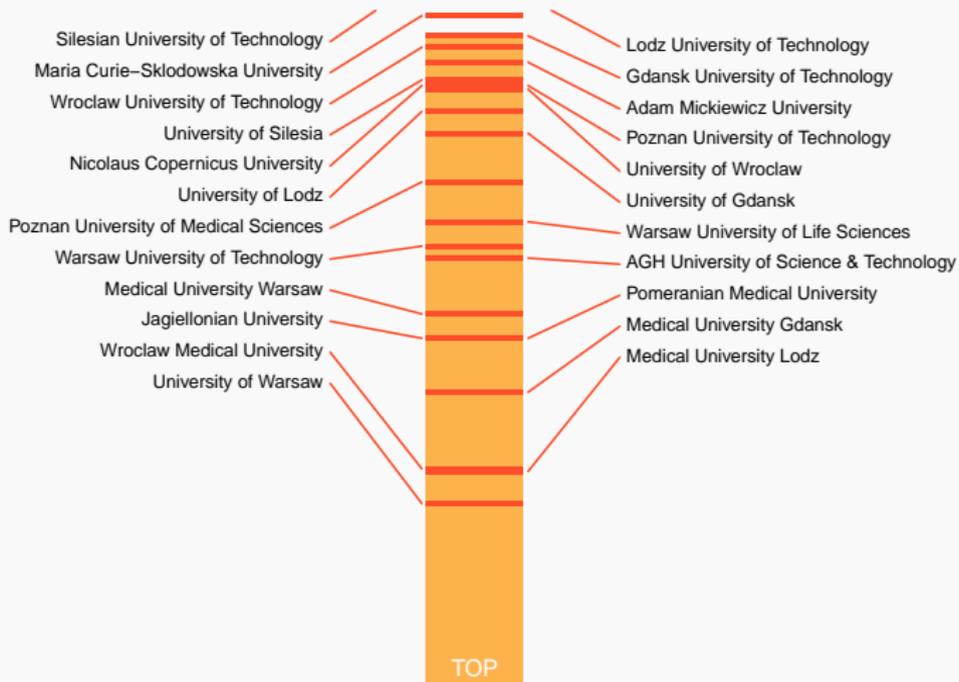


Name	Rank	Top 1% most cited
University of Warsaw	294	324
Jagiellonian University	376	354
AGH University of Science & Technology	612	580
Medical University Lodz	1107	651
Warsaw University of Technology	587	679
Wroclaw Medical University	1010	679
Medical University Warsaw	1001	722
Medical University Gdansk	970	777
Adam Mickiewicz University	788	952
Poznan University of Medical Sciences	1203	967
Warsaw University of Life Sciences	1143	980
University of Wrocław	778	1001
Wroclaw University of Technology	898	1028
Nicolaus Copernicus University	976	1028
Pomeranian Medical University	1226	1028
University of Lodz	995	1046
University of Gdansk	1004	1046
University of Silesia	976	1069
Poznan University of Technology	1080	1197
Gdansk University of Technology	1093	1214
Lodz University of Technology	1124	1271
Maria Curie-Skłodowska University	1214	1271
Silesian University of Technology	1245	1327

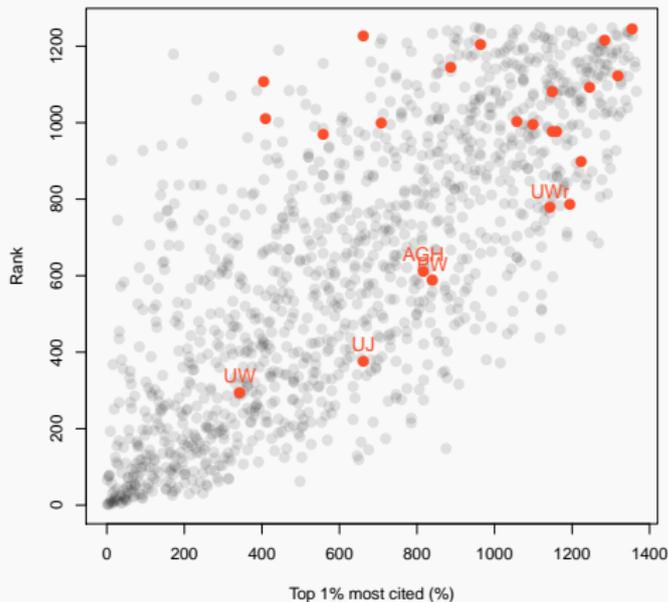
Top 1% most cited

- ▶ Procent artykułów wśród 1% najbardziej cytowanych w danej dziedzinie
- ▶ Dane z ESI (Essential Science Indicators)

Wskaźniki - Top 1% most cited (%) (5.0%)



Wskaźniki - Top 1% most cited (%) (5.0%)

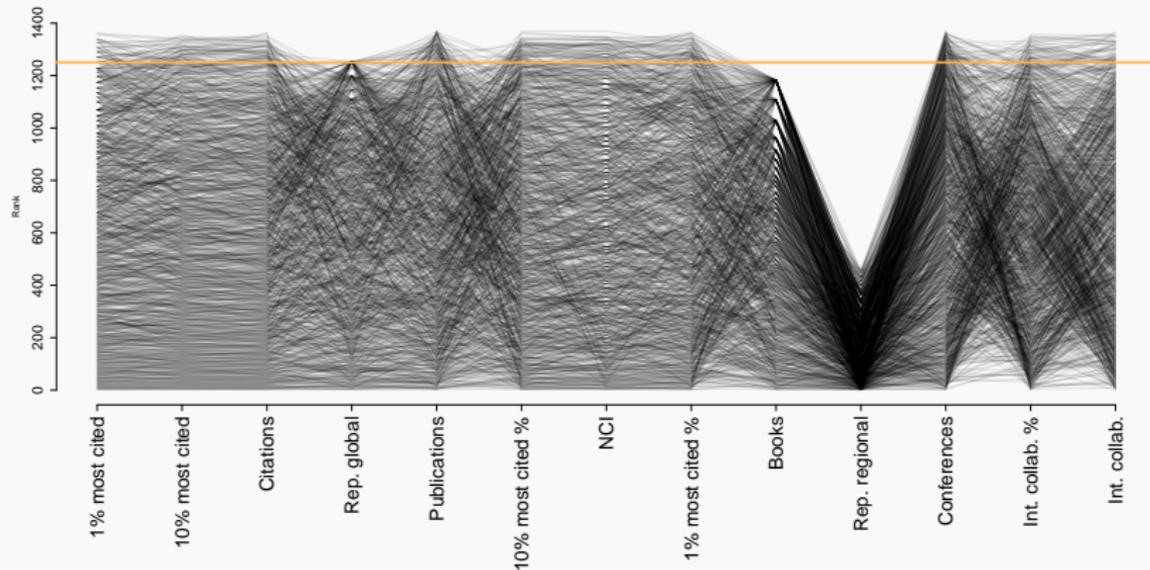


Wskaźniki - Top 1% most cited (%) (5.0%)

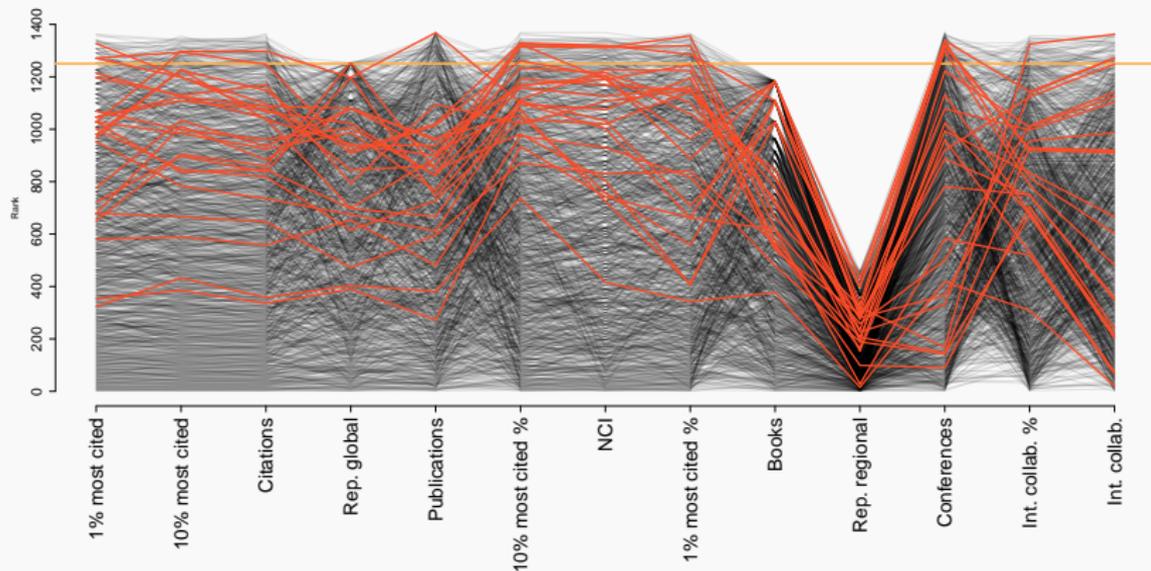


Name	Rank	Top 1% most cited (%)
University of Warsaw	294	343
Medical University Lodz	1107	405
Wroclaw Medical University	1010	410
Medical University Gdansk	970	558
Jagiellonian University	376	662
Pomeranian Medical University	1226	662
Medical University Warsaw	1001	709
AGH University of Science & Technology	612	817
Warsaw University of Technology	587	840
Warsaw University of Life Sciences	1143	887
Poznan University of Medical Sciences	1203	964
University of Gdansk	1004	1058
University of Lodz	995	1100
University of Wroclaw	778	1143
Nicolaus Copernicus University	976	1150
Poznan University of Technology	1080	1150
University of Silesia	976	1161
Adam Mickiewicz University	788	1195
Wroclaw University of Technology	898	1224
Gdansk University of Technology	1093	1246
Maria Curie-Skłodowska University	1214	1285
Lodz University of Technology	1124	1319
Silesian University of Technology	1245	1356

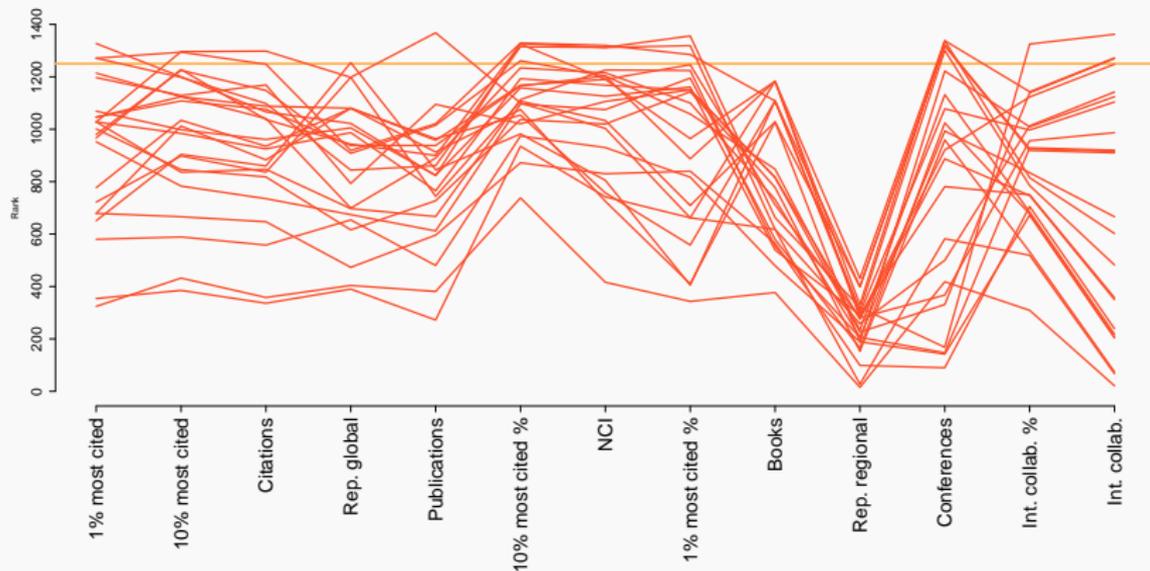
Podsumowanie wskaźników



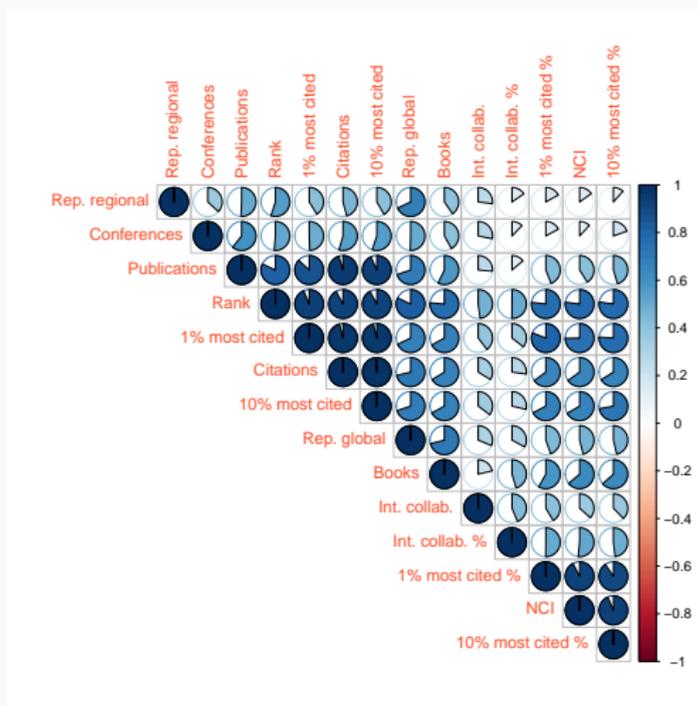
Podsumowanie wskaźników



Podsumowanie wskaźników



Podsumowanie wskaźników



Jak podnieść pozycję w rankingu?

- ▶ Publikacje (i cytowania)
- ▶ Publikacje w 10% i 1%
- ▶ Czy można poprawić pozycję w rankingu reputacyjnym?

Problemy z odtworzeniem rankingu

- ▶ Zbiór uczelni
- ▶ Brakujące dane
- ▶ Brak wyników cząstkowych



INTERNATIONAL Visibility Project

Podsumowanie czterech rankingów

M.J. Mrowiński

Projekt finansowany w ramach programu Ministra Nauki i Szkolnictwa Wyższego pod nazwą „DIALOG” w latach 2019-2020

Perspektywy

 **DIALOG**



Ministerstwo Nauki
i Szkolnictwa Wyższego

ARWU

- ▶ Wskaźniki dobrze różnicują najlepsze światowe uczelnie, gorzej te spoza pierwszej 100
- ▶ Małe zmiany poszczególnych wskaźników nie wpływają istotnie na zmianę pozycji w rankingu
- ▶ Najważniejsza dla polskich uczelni wydają się większa liczba dobrych publikacji

ARWU

- ▶ Wskaźniki dobrze różnicują najlepsze światowe uczelnie, gorzej te spoza pierwszej 100
- ▶ Małe zmiany poszczególnych wskaźników nie wpływają istotnie na zmianę pozycji w rankingu
- ▶ Najważniejsza dla polskich uczelni wydają się większa liczba dobrych publikacji

QS

- ▶ Największy wpływ na pozycję w rankingu mają ankiety reputacyjne.
- ▶ Duży wpływ na ranking mają też stosunek liczby pracowników do studentów oraz liczba pracowników i studentów z zagranicy.

THE

- ▶ Do najważniejszych wskaźników rankingu możemy zaliczyć dane bibliometryczne (szczególnie dotyczące cytowań publikacji) oraz wyniki ankiety reputacji akademickiej.

THE

- ▶ Do najważniejszych wskaźników rankingu możemy zaliczyć dane bibliometryczne (szczególnie dotyczące cytowań publikacji) oraz wyniki ankiety reputacji akademickiej.

US News

- ▶ Z uwagi na bibliometryczny charakter rankingu, liczą się publikacje i ich cytowania.



Dziękujemy za uwagę!

INTERNATIONAL
Visibility Project

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Perspektywy

 **DIALOG**



Ministerstwo Nauki
i Szkolnictwa Wyższego