

STRONG UNIVERSITIES FOR EUROPE

EUA REPORT ON RANKINGS 2011 GLOBAL UNIVERSITY RANKINGS EUA REPORT ON RANKINGS 2013 GLOBAL UNIVERSITY RANKINGS Andrejs AND THEIR IMPACT - REPORT II -Andrejs Rauhvargers

Global university rankings



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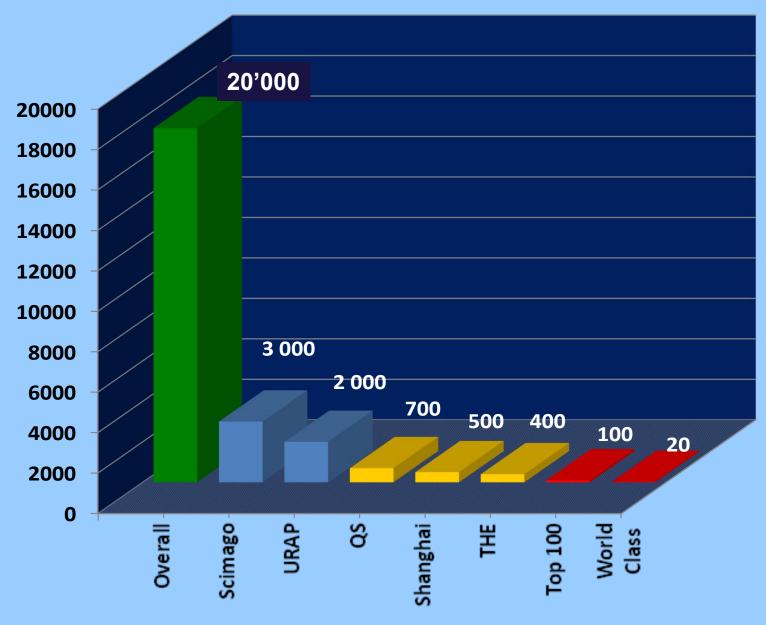
EUA European University Associ		Schourtung
Criteria	Indicator	Weight
Quality of Education	Alumni of an institution winning Nobel Prizes and Fields Medals	10%
	Staff of an institution winning Nobel Prizes and Fields Medals	20%
Quality of Faculty	Highly cited researchers in 21 broad subject categories Top 250 of the HiCi lists of T-R (can be between 250 to close to 400)	20%
Research	Papers published in Nature and Science*	20%
Output	Papers indexed in Science Citation Index- expanded and Social Science Citation Index	20%
Per Capita Performance	Per capita academic performance of an institution	10%

QS global ranking

Indcators	Weight	
Reputation survey (acad)	40%	Invited around 200,000 much less answer
Employer reputation	10%	International recrouting companies, often QS clients, less responses than acad.
Student/staff	20%	In realiy the reverse
Citations/staff	20%	(WoS + Scopus) /FTE (staff)
Foreign staff	5%	% of total staff
Foreign stud.	5%	% of total staff

	Nor	th Am	erica	Western Europe				Easter Europe		Western Asia			
	SH	THE	QS	SH	THE	Qs	SH	THE	QS	SH	THE	QS	
Top 20	17	15	15	2	5	0	0	0	0	0	0	0	
Top 100	57	51	52	30	33	45	1	0	0		0	1	
Top 200	92	81	104	74	85	93	1	0	1		0	2	
Top 300	126	107	140	123	131	140	2	2	3	7	0	6	
Top 400	155	127	159	153	173	182	5	6	7	2	7	14	
Top 500	172		164	195		207	7	29		10	12	22	
					_			_					
	_	ast As	ia	La	tin Am	erica	J	Oceani	a *		Africa	**	
Top 20	SH	THE	QS	SH	THE	QS	SH	THE	QS	SH	THE	QS	,
Top 100	0	0	0	0	0	0	0	0	0	0	0	0	
Top 200	4	11	15	0	0	0	5	5	7	0	0	0	
Top 300	17	18	29	3	1	3	8	9	9	0	0	2	
Top 400	30	30	33	4	2	6	11	13	20	1	4	5	
Top 500	51	45	43	7	2	12	18	24	28	2	6	8	
	73		54	10		19	24		32	4		11	

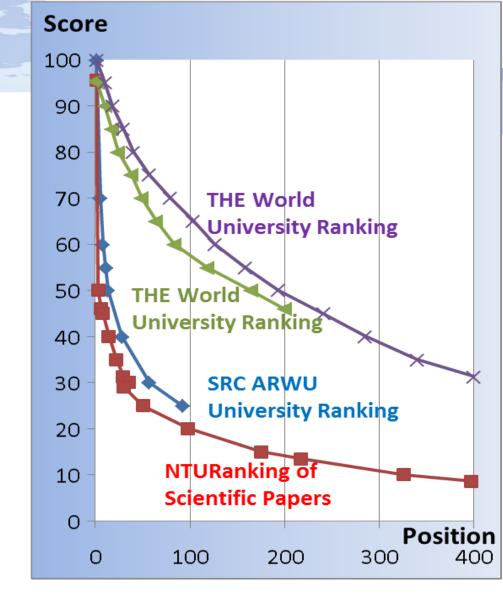






If scores drop so quickly, what is left for the 'remaining' 16500 universities?

While it is OK that the best universities win but it is weon that

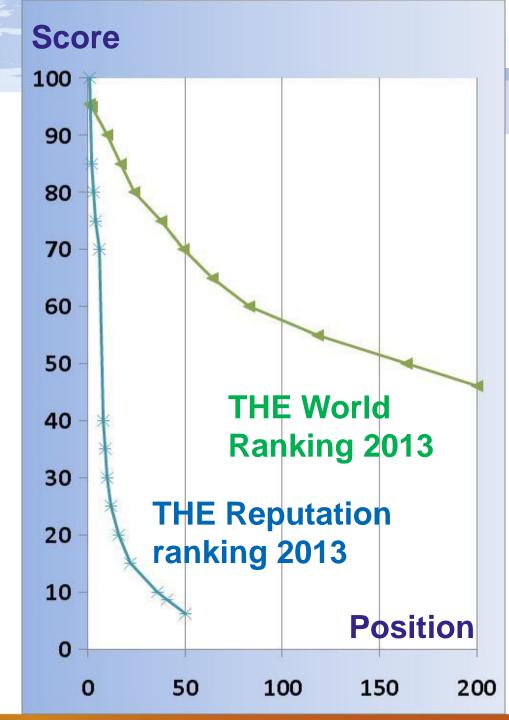




THE Reputation ranking

- A very steep curve
- Reputation score is calcuated as

Secondary impact of rankings on reputation surveys:





Is it fair to compare <u>count</u> of publications or citations?

Data from Shanghai Ranking, 2012

Fields	Publications	Citation
Medicine, Biological Sciences	7,6	59,6
Physical Sciences, Mathematics	6,4	32,0
Engineering	6,0	17,8
Computer Sciences, Social Sciences	2,1	5,5
Arts, Humanities	Unknown	Unknown

Mean-normalisation (MNCS) of citation rate: the number of citation to an article is divided by the mean number of citation in the same field, same and same year



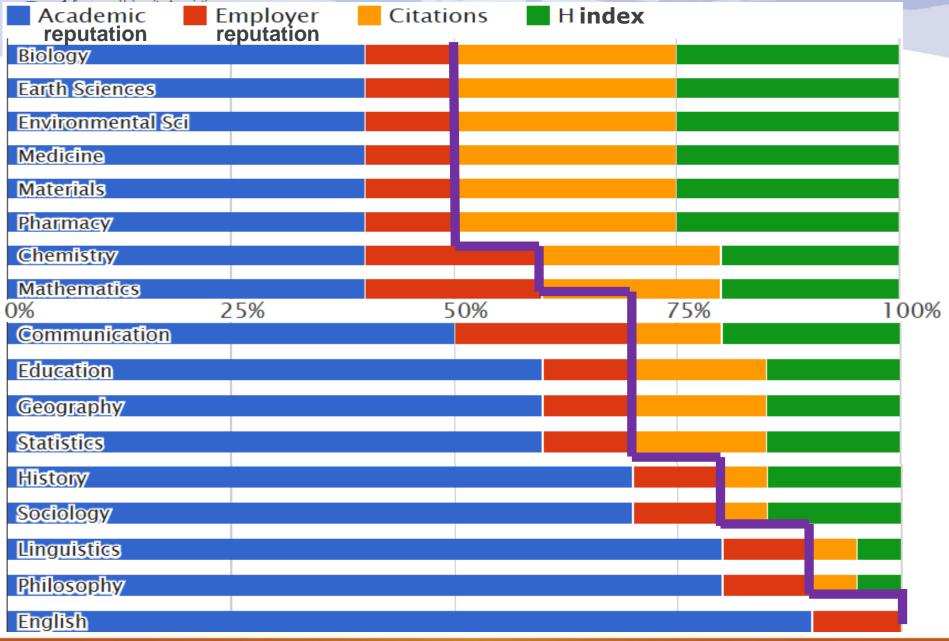
Simple things matter

- Composite scores always contain rankers' subjective view of quality
- Choosing between simple counts or relative values is not neutral
- Not all indicators work well in international comparisons
- Many indicators don't work well for the whole universities, but make sense in subject rankings





Robert Bosch Stiftung





Effects of global university rankings

- Reputation race
- Additional funds to the universities strong in research - on the detriment of other parts of HE systems (Asia, South America, East Europe)
- Support of natural sciences and medicine on the detriment of humanities and social sci.
- Trend to cooperating with 'ranked' universities only
- Trend to choose 'ranked' universities only when choosing university for studies (Asia)
- In some countries issuing foreigner's work permit depends on ranking of his university
- Conventional rankings compare very different universities



Coverage of the research Indicators:

- Publication count Thomson-Reuters, Scopus
- Publication count in Nature & Science
- Publications per staff
- Citations count, per paper or per staff
- Citations to articles in the top impact journals – excellence
- Research income,
- Research reputation (surveys)
- H-index



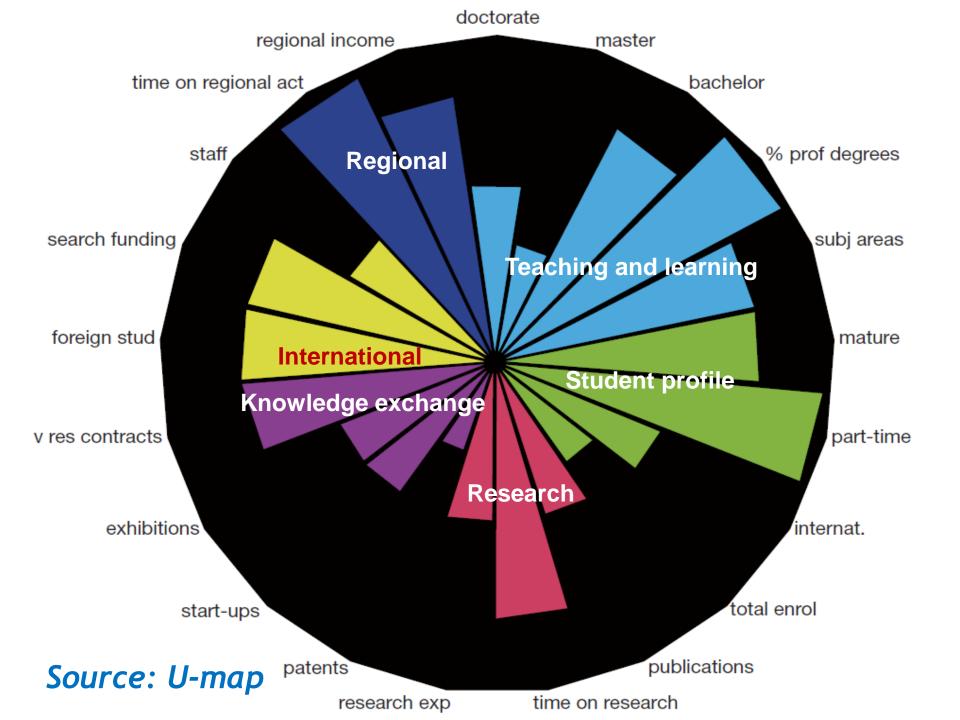
Rankings and the teaching. Indicators:

- Alumni or staff holding a Nobel Prize
- Staff/Student ratio
- Reputation surveys academics, students, employers
- Teaching income
- Dropout rate
- Time to degree
- PhD/ undergraduate ratio
 All of the above are distant proxies, some questionable



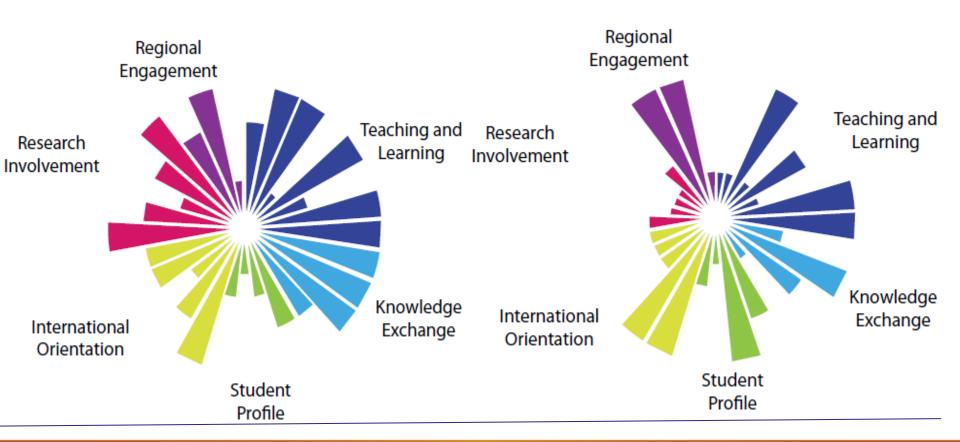
U-map and U-Multirank U-map: using neutral process indicators

- Teaching and learning –
 levels and orientation of degrees, subject range
- · Student profile mature, distance, part-time,
- Research activity,
- Knowledge exchange,
- International orientation,
- Regional engagement.





U=map - visualisation tool allowing to make comparison of selected HEIs



Multi-indicator tool U-Multirank (EU)

- Mainly performance indictors
- No overall score calculated
- Ranking is based on one indicator, scores in other indicators are displayed

Dimension	Institutional	Field-based
	ranking	rankings
TEACHING & LEARNING		
Student-staff-ratio		X
Graduation rate (BA and - separately - MA)	X	X
Percentage of academic staff with PhD		X
 Percentage of students graduating within normative period (BA and –separately - MA) 	X	X
Rate of graduate employment	X	X
Inclusion of work experience in degree programme		X
Indicators from the student surve		X
Overall learning experience		X
 Quality of courses & teaching 		X
Organisation of program		X
Contact to teachers	neyas	X
 Contact to teachers Social climate Facilities libraries, Comment: Stude Comment: ore only used in oversions. 	nt sul ranking	X
• Facilities sent: Study	n Field	X
 libraries, Comina uses 	ty rains	X
 laboratories, 		X
 Contact to teachers Social climate Facilities libraries, laboratories, rooms, Comment: Stude Comment: Stude Comment: Stude		X
• IT		X
Research orientation of teaching programme		X
Inclusion of work experience /practical elements		X





Dimension	Institutional ranking	Field-based rankings
RESEARCH		
External research income (per fte academic staff)	Х	Χ
Doctorate productivity		X
 Total research publication output (per fte academic staff)* 	X	X
Art related output	X	
Field-normalised citation rate*	X	X
Highly cited research publications *	X	X
Interdisciplinary research publications*	X	X
Research orientation of teaching (student survey)		X
Number of post-doc positions	X	

*bibliometric indicators (hard data)

D	imension	Institutional ranking	Field-based rankings
	INTERNATIONAL ORIENTATION		
•	Educational programmes (BA, resp. MA) in foreign	X	
	language		
•	International orientation of degree programmes		X
•	Opportunities to study abroad (student survey)		X
•	Student mobility (composite of incoming, outgoing, joint degree students)	X	X
•	Percentage of international academic staff	X	X
•	Percentage of PhDs awarded to foreign students	X	X
•	International joint research publications*	X	X
•	International research grants		X
	*bibliometr	ric indicators	

FLINIDACÃO



Dimension	Institutional ranking	Field-based rankings
REGIONAL ENGAGEMENT		
Percentage of graduates working in the region	χ	X
Student internships in regional enterprises	χ	χ
Degree theses in cooperation with regional industry		χ
Regional joint research publications*	χ	Χ
Income from regional sources	χ	Χ

*bibliometric indicators

«Personalizing» the set of indicators ranking

Teaching & learning	Teaching & learning;	Research
	student satisfaction	
□ student staff ratio □ graduation rate □ investments in laboratories □ qualification of academic staff □ rel. graduate unemployment rate □ interdisciplinarity of programs □ inclusion of employability issues □ inclusion of work experience in program □ computer facilities: internet access □ student gender balance	 □ overall judgement of program □ evaluation of teaching ☑ facilities (libraries) ☑ facilities (IT) □ organisation of program □ research orientation of ed. program ☑ inclusion of work experience □ quality of courses □ social climate □ support by teachers □ opportunities to stay abroad 	□ external research income □ research publication output □ doctorate productivity □ field normalised citation rate □ highly cited research publications
Knowledge transfer	International orientation	Regional engagement
□ ac. staff with non-HE experience □ joint research contracts priv sector □ university-industry joint publications	 incoming and outgoing exch students international orientation of programs international academic staff international research grants international joint research publ. % international students 	☐ graduates working in the region ☐ degree theses with reg. enterprise ☐ regional participation in continuing ed. ☐ summer schools sec.ed.students ☑ student internships in region
Source: Multirank presentation, 2011	□ internat doctorate graduation rate	

Multirank: default set of 15 indicators

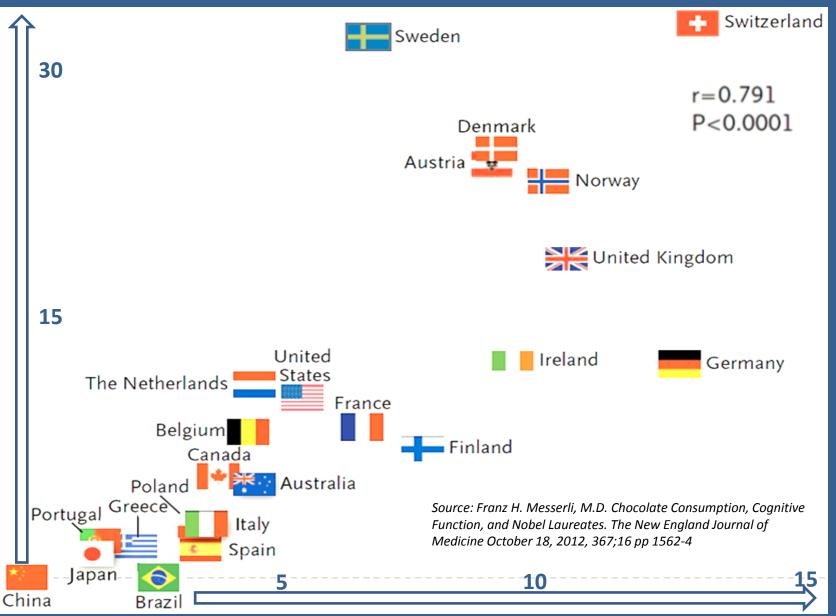
		achin earni		R	Research			Knowledge transfer			rnati entat		Regional engagement		
code of institution	student staff ratio	graduation rate	qualification of academic staff	research publication output	external research income	citation index	% income third party funding	CPD courses offered	startup firms	international academic staff	% international students	joint international publ.	graduates working in the region	student internships in local enterprise	regional co- publication
148		0	0			0	0	0	0		0	0	0		0
293		0	0	0	-	0	0		0	0	0	-	0		
196	0						0		0	0	0		0		
111	0	0		0		0	0		0	0	0	0	0	-	0
222	0	0		0	2	0		-	0	-	0	0	0	0	0
4	0	-	-	0				0		0	0		0	0	
98	0	0	0	0	0			0	0	0	0	0	0	0	
152		0	0	0	_	0		0	0	0			0	0	
	M	M		M		M		M	M		M		M		



Other useful tools:

- Webometrics web rankings, cover ALL universities,
- Leiden ranking research comparisons
- Scimago comparisons of HEIs, countrules, journals,
- U-21 ranking of higher education systems

THE CHOCOLATE RANKING



Chocolate consumption kg/year, per capita

Nobel winners per 10 mio population

Are they catching you?



