

The CHE-Ranking of German Universities

Gero Federkeil CHE - Center for Higher Education Development Gütersloh, Germany

> CHEA – International Committee San Francisco 26 Jan 2006

Our institution

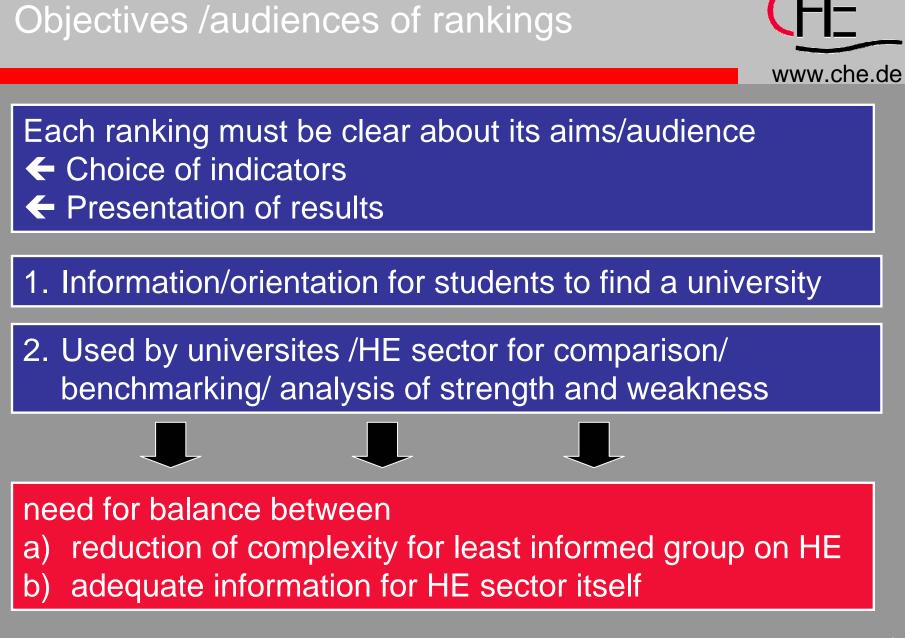


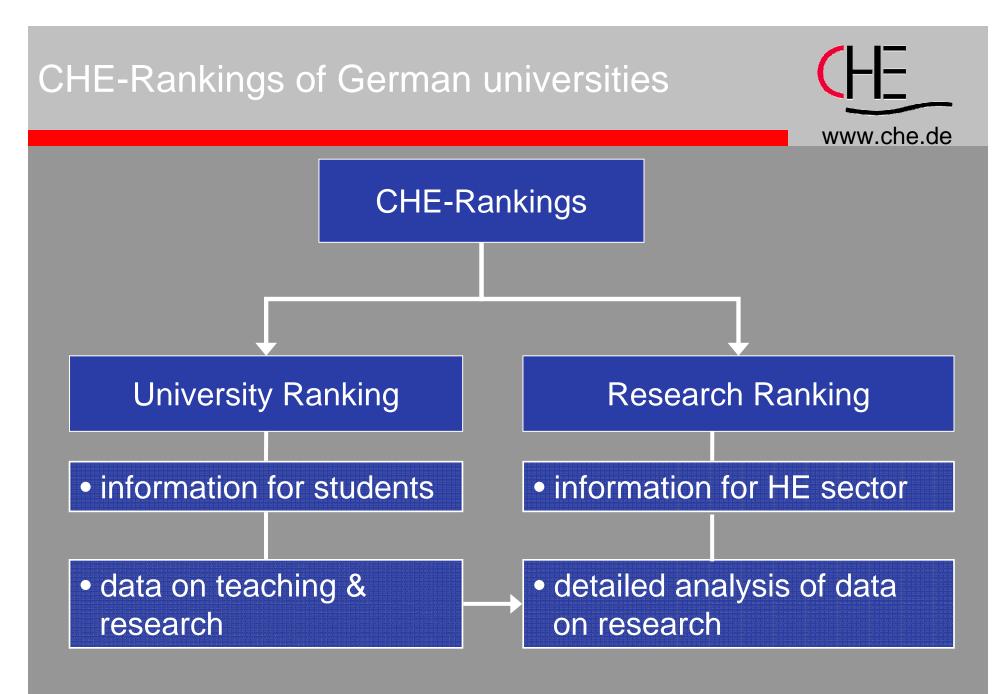
- Private non-profit organisation
- Founded in 1994 by German Rectors' Conference & Bertelsmann Foundation
- Promoting reforms in higher education sector
- Staff: 26 persons

History of the CHE-Ranking



- Initiated by German Rectors' Conference (early 90s)
- Founding task for CHE
- First ranking: 1998
- Since 1999: co-operation with weekly magazine *stern*;
 From 2005: co-operation with *Die Zeit*
- 2002: First Research Ranking: more detailed analysis of data on research
- 2004: Inclusion of Austrian universities
 2005: Inclusion of Switz universities
- 2005: Inclusion of Swiss universities





Methodological Principles



No ranking of whole universities

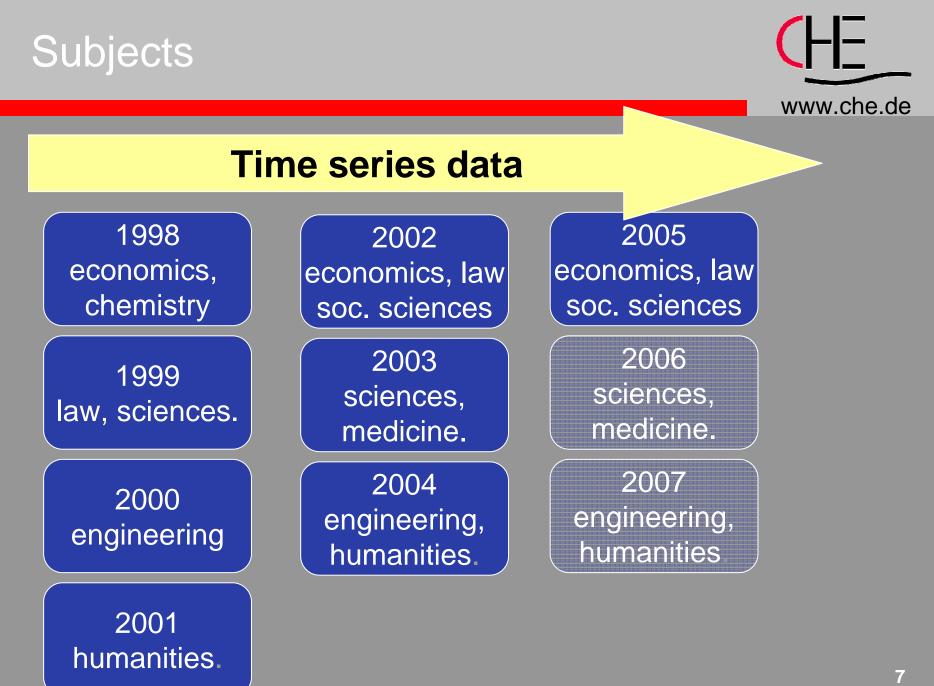
No overall score from weighted indicators

No individual ranks in league tables

Ranking of single subjects / subject areas

Multidimensional ranking

Rank groups top intermediate bottom



Subjects



Linguistics and Civilization Studies, Psychology	Engineering Sciences				
Education Science	Architecture				
English/North American	<u>Civil Engineering</u>				
Studies	Electrical and Information				
<u>German Language and</u> Literature	Engineering				
	Industrial Engineering				
History	Interial Design				
Psychology	Mechanical Engineering				
	Physical and Instrumental Engineering (FH)				
	<u>Process- and Chemical</u> Engineering				
	Surveying (FH)				

Natural sciences, Mathematics, Computer Science	Legal, Economic and Social Sciences
<u>Biochemistry</u>	Business Administration
<u>Biology</u>	Business and Economics
Chemistry	Education
Computer Science	Commercial/Business Law
Food Chemistry	Economics
Mathematics	Law
Pharmacy	Nursing
Physics	Political Science
Technical Computer Science	Social Policy and Social Work
	Sociology/Social Science

Medicine

<u>Dentistry</u>

Human Medicine

34 subjects

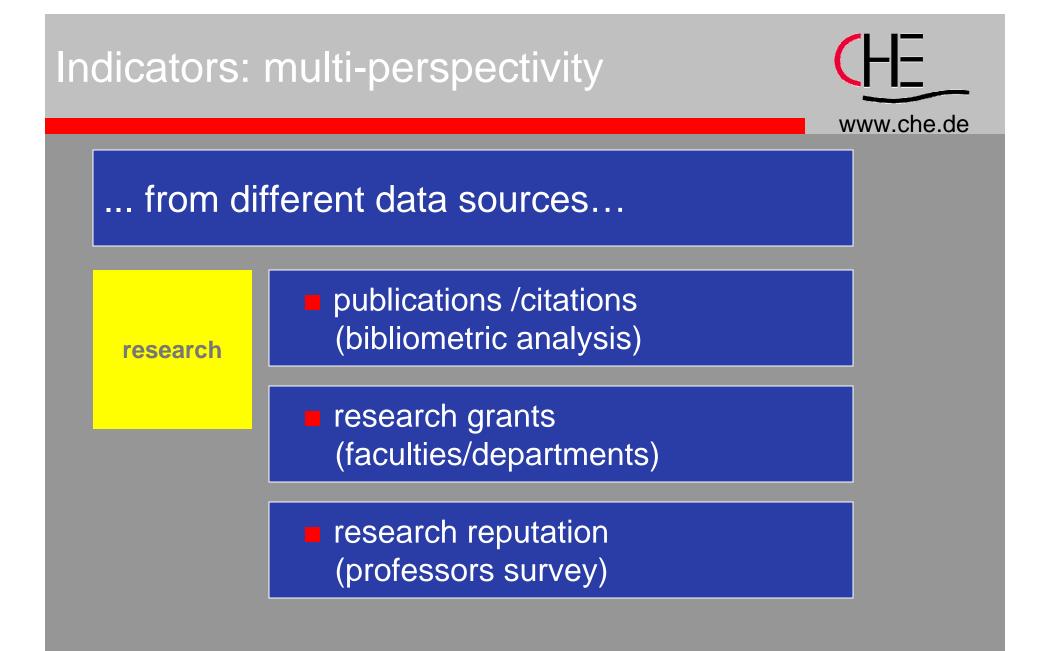
covering > 75 % of all students

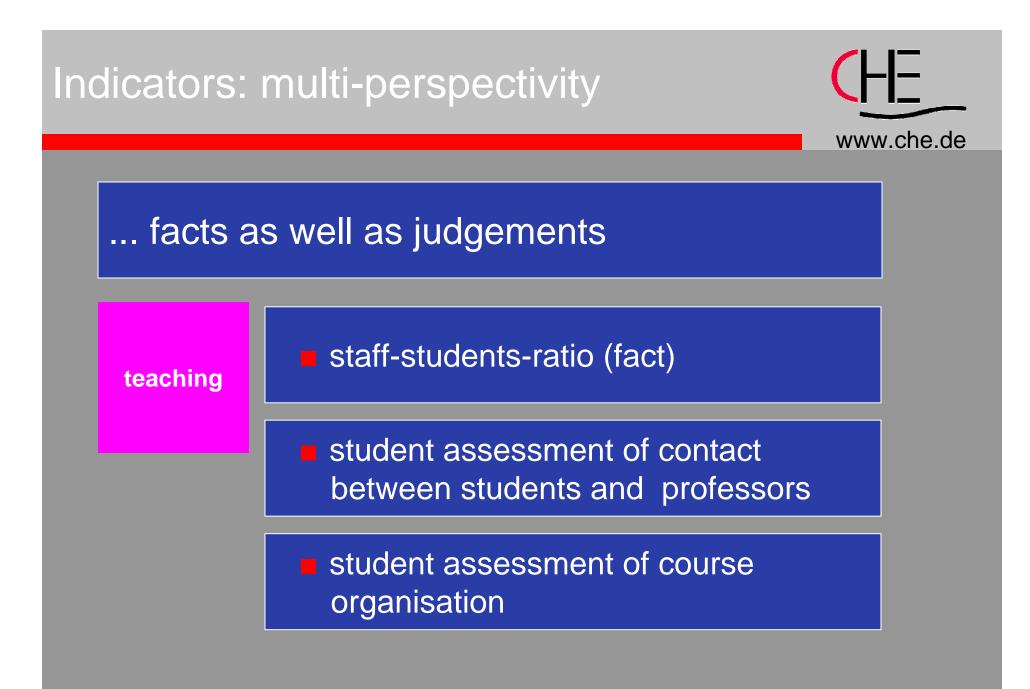
University Ranking: Decision model

HE www.che.de

city, university	students	study outcome	
internatio- nalisation	teaching	ressources	
research	labour market, employability	overall assessment (students, professors)	

Each component contains several indicators..., 20 – 25 in sum





Rank groups: procedure



Groups instead of league table positions avoid misinterpretation of differences in indicators

2 different procedures of group ranking:

1. Facts

ordering according to quartiles correction in case of characteristic jumps

Rank groups: procedure



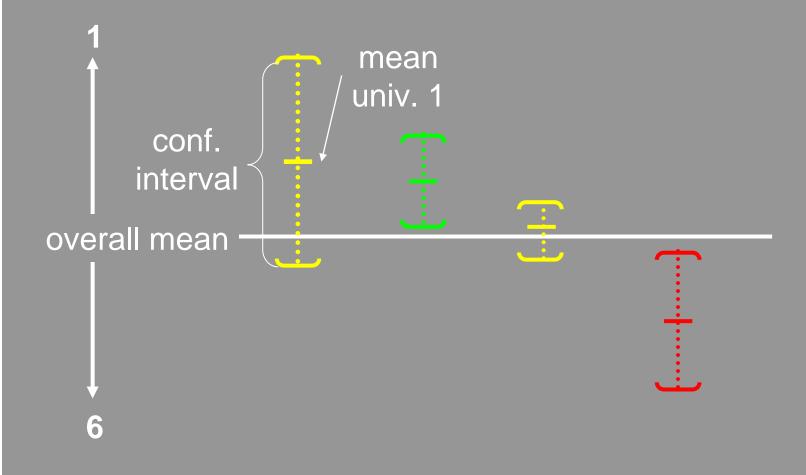
2. Judgements (students, professors)

top group if confidence interval of mean is completely below overall mean
 bottom group if confidence interval of mean is completely above overall mean
 middle group if dispersion is high, i.e. confidence interval is neither completely below nor above the overall mean

Rank groups: procedure



Univ.1 Univ.2 Univ.3 Univ.4







- Focus on labour market information /outcome indicators
 - including alumni surveys

Bologna process

- Introduction of Bachelor-/Master-degrees
- New structure of German HE (universities polytechnics)

Perspectives



Internationalization

- Inclusion of Austrian / Swiss universities as a first step
- Further internationalization intended in line with evolving "European Area of Higher Education"

2 strategies:

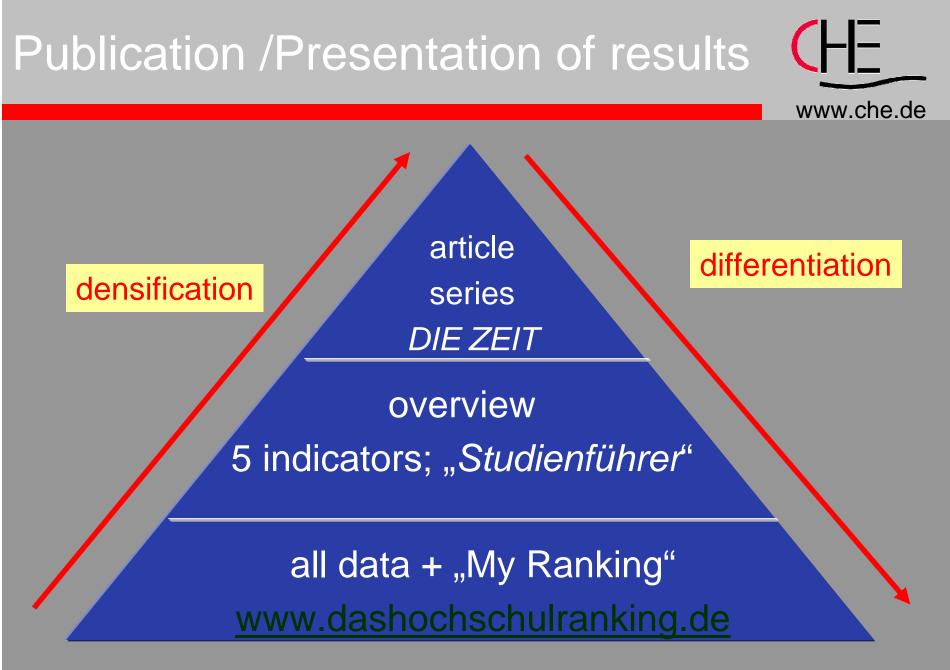
- Inclusion of additional countries (e.g. Netherlands, Belgium): limits
- 2. Ranking of (selected) European top universities with focus on research / graduate studies

Perspectives



Internationalization

- with regard to both strategies:
 - co-operation with competent partners in the participating countries
 - to be able to consider differences in the structure of HE and in academic cultures
 - and hence to avoid systematic biases



Study and research in Ge	ermany	Hom
<u>Subjects</u> <u>Universities</u> <u>Loc</u>	ations Info/FAQ	
	versity ranking ents that we have already surveyed. Select the subject yo versities of applied sciences that offer it.	ou wish to study and let us t
Linguistics and Civilization Studies, Psychology	Engineering Sciences	
Education Science	Architecture	
English/North American	Civil Engineering	
<u>Studies</u> German Language and	Electrical and Information	
<u>Literature</u>	Engineering Industrial Engineering	
<u>History</u>	Interial Design	
<u>Psychology</u>	Mechanical Engineering	
	Physical and Instrumental Engineering (FH)	
	Process- and Chemical	
	Engineering	

Œ

www.che.de



German Language and Literature (Last update 2004)

Institutions going up and coming down

Has the subject improved or deteriorated over the last few years with respect to individual indicators? The comparison over time allows trends to be observed: Here is an overview of the going ups and coming downs. <u>more...</u>

Ranking in overview

Here you see all the higher education institutions at which German Language and Literature can be studied and how the higher education institutions performed in four to five selected criteria. <u>more...</u>

Individual ranking

Here you see all the higher education institutions at which German Language and Literaturecan be studied and how the higher education institutions performed in a selected criteria. <u>more...</u>

Personal ranking with assistant

Here you can create your own ranking by selecting from the available criteria and weighing up those which are most important to you. In this process, our ranking assistent leads you through to the result. <u>more...</u>

Personal ranking

You know exactly what your higher education institution should offer? Here you can combine up to five criteria at will in order to find the most fitting higher education institution for you. <u>more...</u>

Legal notice



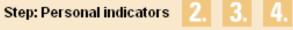
(HE



(HE

Personal ranking with assistant

1.



Please select up to **five** criteria from those available for the subject. Here is an (F) for facts and a (S) for stundents' opinion.

Academic studies and teaching

- 🔲 🖲 E-Learning (S)
- Contact between students (S)
- Contact students-teachers (S)
- Courses offered (S)
- O Specialist studies consultancy (S)
- Study organisation (S)
- Practice Support (S)
- Counselling (S)

Equipment

- PC-equipment (S)
- Media equipment (S)
- O Workstations (S)
- C 0 Rooms (S)
- 🔲 🛛 Library (S)

Job market and career-orientation

Employment market related Programmes (S)

Overall opinion students and professors

- Overall assessment (S)
- Research Reputation
- 🗹 🛯 Professors' tip

Research

- 🔲 🛛 many doctorates (F)
- 🗹 🛯 much third party funding (F)

Result of study

✓ 0 short duration of studies (F)

Study location and higher education institution

- Intermediate of higher education sport (F)
- 🔲 0 low rent (F)
- Image: Second Second
- Higher education sport (S)

CHE www.che.de



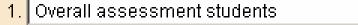
Personal ranking with assistant



Step: Sort indicators



Determin the order of the criteria according to which the higher education institutions are to be sorted in your personal ranking. The higher education institutions are first sorted according to the first criterium, then according to the second, etc.



2. Students opinion on study organisation 💌

next step

- 3. Duration of studies
- 4. Third party funds per academic
- 5. Professors' tip

🗲 previous step



Personal ranking with assistant

1. 2. 3.

Step: Weighting indicators



Now you have to decide whether only the top group, the top and middle groups, or all higher education institutions are to be displayed.

		Only top group	Top and middle group	All
1.	Overall assessment students	\odot	0	0
2.	Students opinion on study organisation	0	0	\odot
3.	Duration of studies	\odot	0	0
4.	Third party funds per academic	0	0	Θ
5.	Professors' tip	0	0	\odot

🗲 previous step

⇒ show results



Diplom / Magister

1.	Overall assessment ((S)		-	•	0
2.	Study organisation (S)		•	• •	۲
3.	short duration of stud	ies (F)		•	•	0
4.	much third party fundi	ing (F)		•	0 0	۲
5.	Professors' tip			•	0 0	۲
(S) = Students' opinion (F) = Facts						
Top Group Middle Group						
•	Top Group	•	Middle G	roup		
	Top Group Final group		Middle G not ranke	·		
•		1.		·	4.	5.
Res	Final group	1. • 2,5	not ranke	d	4. • 21,1	5. 1,6
Res Uni	Final group sults	1	not ranke	d 3.	1	1
Res Uni Uni	Final group sults <u>i Siegen</u>	2,5	not ranke 2. 1 2,5	d 3. • 9,9	21,1	1,6
Res Uni Uni	Final group sults <u>i Siegen</u> <u>i Freiburg</u>	2,5	not ranke 2. 2,5 2,2	3. 9,9 10,5	21,1	1,6 6,1

Diplom / Magister

1.	Research Reputation				•	9	0 0
2.	many doctorates (F)				•		0 0
3.	much third party funding	(F)			•	۰	• •
4.	Overall assessment (S)				•	۰	• •
5.	Study organisation (S)				•	0	• •
	= Students' opinion = Facts Top Group		Mi	ddle G	roup		30
•	Final group	1	no	t ranke	d		
Re	sults	1.		2.	3.	4.	5.
<u>Un</u>	<u>i Tübingen</u> *	🍦 9	з 🛉	0,9	+ 16,5	 2 ,*	1 📫 2,3
<u>Un</u>	<u>i Tübingen</u> *	🍦 9	з 🛉	0,9	+ 16,5	📫 2,2	2 🛉 2,6
<u>Un</u>	<u>i Heidelberg</u>	🛉 5	7	1,3	+ 7,6	+ 2,9	9 🛉 2,8
LM	L L MAZA A LA AN	- - - 4.	5,8 🖕	0.0	5 0	<u> </u>	1 📥 २०
	<u>U München</u>	T '	^{0,0} T	0,9	- 5,9	<mark> </mark> 3,	1 📫 2,9



5. reputation

The CHE-Research-Ranking



<u>University ranking</u>: per-capita-indicators (e.g. number of publications per professor)

<u>Research Ranking</u>: absolute + per-capitaindicators: identification of centers of high research activity

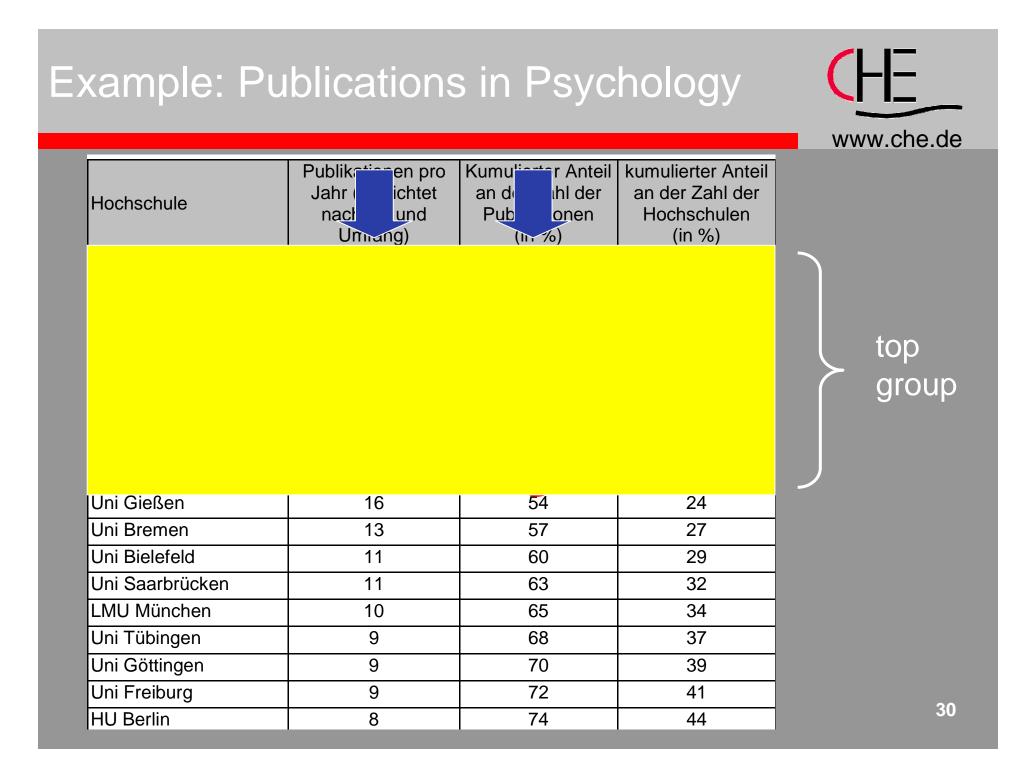
The CHE-Research-Ranking



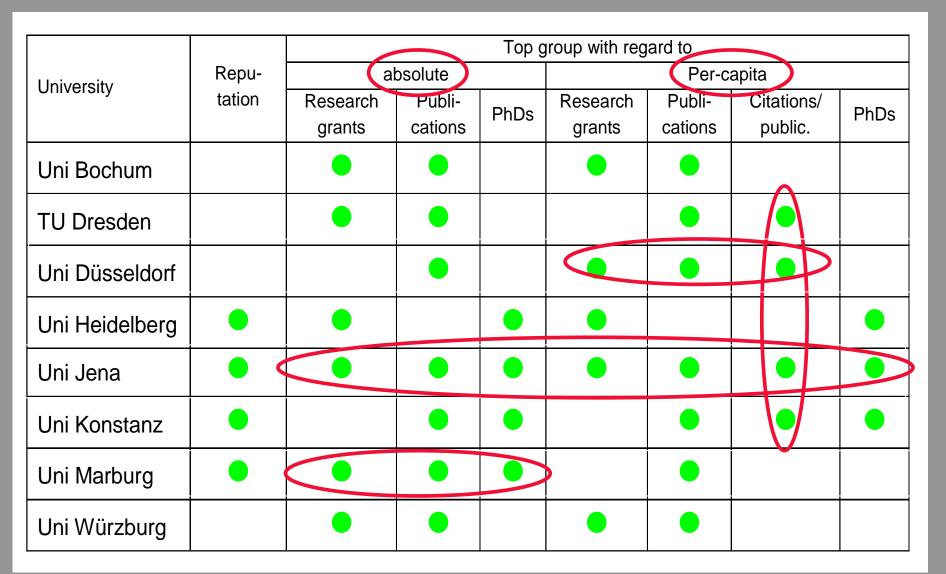
Top research departments =

top group in at least 50 % of research indicators (absolute & per-capita; without reputation)

top group :a) per-capita-indicators: quartilesb) absolute indicators: top group of departments that cumulatesfor 50% of the respective maesure (e.g. publications) in a field



Top research departments in Psychology



www.che.de

CHE



Thank you for your attention!

Further information:

www.dashochschulranking.de

www.university-ranking.de

mailto: gero.federkeil@che.de