

*Regency Hotel
Brussels
17 December 2009*

Introduction

The U-Multirank project has a stakeholder focused approach. In designing and testing the feasibility of a global multi-dimensional ranking of higher education and research institutions, its users/stakeholders have a prominent role.

After the first stakeholder meeting in October 2009, a second stakeholder event was organized on 17 December 2009: the stakeholder workshop on the relevance of the U-Multirank indicators.

The objective of the workshop was to get insight in the stakeholders' opinion on the relevance of the indicators selected (as reported in the interim report of December 2009). The workshop was set up as a modified Delphi study. Stakeholders were asked to express and motivate their views on the relevance of indicators in multiple rounds, in order to achieve a more in-depth insight in the views and the underlying motivations as well as a certain level of consensus among the stakeholders regarding the relevance.

The first round was organized as an on-line survey among the invited stakeholders. The second, third and fourth round were set up as discussion workgroup sessions in the workshop and the final round was the survey that was administered at the end of the workshop.

Pre-workshop survey

The pre-workshop survey was sent to all stakeholders on the list of stakeholders (for a list see appendix 1). It comprised most of the indicators listed in the interim progress report of November 2009 (the final version of this report will be made available on the website in February 2010). For all indicators the question was asked how relevant the indicator is for the respondent in ranking a higher education or research institution cq a field at a specific higher education or research institution, using a five point scale.

98 invited stakeholders completed the on-line questionnaire (see appendix 2).

The results of this first round (for a detailed overview see appendix 3) show that the selection of indicators is, in general seen as relevant; for none of the indicators the average score indicated low relevance. However, within that range of relevance, there were some differences between the indicators by dimension and type of ranking (focused institutional ranking and field based ranking).

In the 'teaching'-dimension, the relative graduate earnings were considered to be the least relevant. Relative graduate unemployment was seen as more relevant. In the FIR the relevance of graduation rate and relative graduate unemployment rate were at the same level, whereas in the field based ranking assessment, graduation rate was seen slightly more relevant. The scores for the FBR were on average slightly higher than for FIR and within FBR, engineering scored higher than business. This general pattern emerged for all five dimensions.

In the 'research'-dimension, the 'within-country joint research publications' were clearly seen as the least relevant indicator, whereas 'research publication output', and 'external research income' were the more relevant indicators.

In the 'knowledge transfer'-dimension, the traditional commercialization indicators (licensing income, patents and spin-offs) were considered to be of less relevance in the FBR. 'External research contracts' was seen as most relevant.

'International academic staff', 'number of international students' and 'internationalisation of programmes' were the most relevant indicators in the dimension 'Internationalisation'. In the dimension 'Regional engagement' 'student internships in local enterprises', and 'research contracts with regional business' were seen as most relevant.

The workshop

The workshop was set up as a one day event. After an introduction to the objective of the workshop and an instruction regarding the procedures to be followed during the day, the participants were sent off in five working groups, each group being organized around one of the five dimensions of U-Multirank.

The task the participants were asked to perform was to select indicators on their relevance: 'is this indicator relevant or not?'.

Based on the results of the pre-workshop survey a selection was made of indicators that were relevant (IN) not relevant (OUT) and undetermined (?). In the first working group session the participants were asked to move the indicators from the '?'-category to either the IN-category or the OUT-category. Indicators in the In- and Out category could be moved as well. All decisions regarding moving indicators from one category to another had to be motivated. A group moderator kept track of the changes and the motivations. After the first group sessions reconvened in the plenary room to discuss the changes made in an informal market-style set up. Participants then changed to another group to discuss the list of indicators in the IN- and OUT category. Indicators could be moved to the other category, preferably with consensus of the group, but always with a clear motivation. After the second round, a plenary market style discussion followed. For the third session, participants changed groups again and the process of discussion started once again. In the final plenary session the moderators presented the results of the group sessions, as well as the main motivations used. Participants were given the opportunity to dissent with the final result of the working groups.

On their departure, around 30 participants completed the original questionnaire once again (for the results see appendix 4).

The workshop was a success as it actively involved a large number of stakeholders in the discussion on the relevance of the indicators presented. New indicators were proposed

and intense discussions were held to convince other group members of the (ir)relevance of specific indicators. Participants were vary active and appreciated the format developed for the workshop.

There was a general consensus on the list of indicators voted IN and OUT, although there was also a significant number of participants who expressed their dissent on specific indicators. For an overview of the indicators in the categories IN and OUT and the comments made see appendix 5.



U-Multirank Stakeholder workshop on the relevance of indicators

Appendix 1: List of Participants

Institution	Name		
Association of Universities of Applied Sciences, FHK	J.		Häfke-Schönthaler
Bologna Follow Up Group (BFUG)	M.		Leegwater
Business Europe	H.		Dettleff
CHE	G.		Federkeil
CHE	F.		Ziegele
CHEPS	M.		Beerkens
CHEPS	F.		Kaiser
CHEPS	F.	van	Vught
COIMBRA	G.		Langouche
Compostela Group of Universities (CGU)	B.		Iglesias Seoane
Compostela Group of Universities (CGU)	J-P.		Roose
Conference of Schools for Advanced Engineering Education and Research (CESAER)	L.		Coninx
Conference of Schools for Advanced Engineering Education and Research (CESAER)	M.		Horvat
Conference of Schools for Advanced Engineering Education and Research (CESAER)	J.		Sjöberg
CRUS	A.		Pacton
CWTS	R.		Tijssen
EC/EAC	R.		Deiss
EC/EAC	R.	van	Ijperen

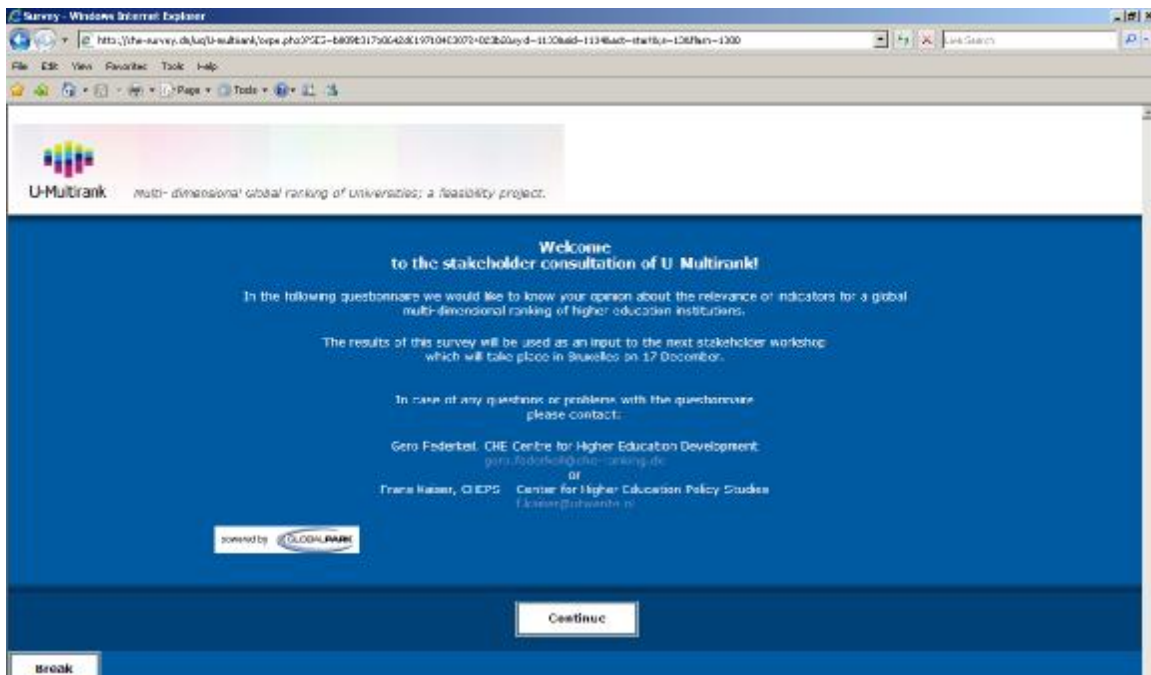
ENIC/NARIC	K.		Guillaume
EUPRIO, King's College	C.		Coe
European Centre for Strategic Management of Universities (ESMU)	N.		Burquel
European League of Institutes of the Arts - ELIA	U.		Dalnäs
European League of Institutes of the Arts - ELIA	T.		Ophuijsen
European Network for Universities of Applied Sciences (UASNET)	T.		Wanker
European Students Union (ESU)	A.		Pall
European University Association	M.		Koops
European University Association	H.		Newby
Flemish Interuniversity Council	S.		Van Lommel
INCENTIM	J.		Callaert
International Association of Universities (IAU)	M.		McGinn
International Association of Universities (IAU)	I.		Turmaine
LERU	J.	van	Asten
Ministry of STI, Denmark	M. J.		Jansen
Network of Universities from the Capitals of Europe (UNICA)	M.		Arménia Carrondo
Network of Universities from the Capitals of Europe (UNICA)	K.		Dejonckheere
Nordic Council of Ministers	C.		Möller
Nordic Council of Ministers	H.		Otte
OST	G.		Filiatreau
OST	P.		Vidal
Rectors' Conference - Czech Republic (CRC)	V.		Stastna
Rectors' Conference - Estonia	T.		Vihand
Rectors' Conference - Germany (HRK)	R.		Peter
Rectors Conference - Iceland (NRCI)	B.		Zarjoh

Rectors' Conference - Italy (CRUI)	M.		Carfagna
Rectors' Conference - Lithuania	K.		Krisčiūnas
Rectors' Conference - Norway (UHR)	G.		Bakken
Rectors' Conference - Slovakia (SRC)	M.		Finka
Rectors' Conference - University Colleges Denmark	M.		Thorsen
Rectors' Conference for Danish University Colleges	P.		Aalykke
Rectors' Conference, French Community of Belgium (CREF)	E.		Boxus
Rectors' Conference, French Community of Belgium (CREF)	F.		Michel
Technical University of Catalonia	M.		Juste Ezquerria
The European Association of Conservatoires (AEC)	L.		Messas
The European Association of Conservatoires (AEC)	M.		Prchal
University of Luxemburg	A.		Koenig
Utrecht Network	F.		Salve

Appendix 2: Pre workshop survey

The pre-workshop survey was sent out to over 100 persons/ organization who are on the list of stakeholders (see appendix 1)

- FIR = Focused Institutional Ranking
- FBR = Field Based Ranking
- FBRe = Field Based Ranking engineering
- FBRb = Field Based Ranking business





I. Institutional ranking

In the first part of the survey we are interested in your opinion about indicators for an institutional ranking.

Please rate the relevance of the following indicators for an institutional ranking.

	very low	rather low	rather/ nor	rather high	very high
I.1. Teaching & learning					
Expenditure on teaching	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Average time to degree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Graduation rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Relative rate of graduate unemployment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Relative graduate earnings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I.2. Research					
Expenditure on research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of post-doc positions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Presence of clear promotion schemes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research publication output	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
WPIR-country joint research publications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
H-index-normalized citation impact	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heavily cited research publications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
International prizes and scholarships won	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Back](#) [Continue](#)

Break



I. Institutional ranking

Please rate the relevance of the following indicators for an institutional ranking.

	very low	rather low	rather/ nor	rather high	very high
I.3. Knowledge Transfer					
Size of technology transfer unit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Size of science park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Incentives for knowledge exchange	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Chairs (co-) funded by industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Continous Professional Development courses offered	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
University-industry joint publications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of spin-offs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Entrepreneur awards and prizes won	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Patents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consulting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cooperative research contracts with industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Third party funding: direct industry financing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Third party funding: through public cooperative programs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
License income	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
License agreements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Back](#) [Continue](#)

Break

I. Institutional ranking

Please rate the relevance of the following indicators for an institutional ranking.

	very low	rather low	rather/ nor	rather high	very high
I.4. Internationalisation					
Size of international office	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of educational programmes in English language	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
International academic staff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Joint-degree programmes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
International doctorate graduation rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
International partnerships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
International joint research publications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
International graduate employment rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Back

Continue

Break

I. Institutional ranking

Please rate the relevance of the following indicators for an institutional ranking.

	very low	rather low	rather/ nor	rather high	very high
I.5. Regional Engagement					
Income from regional/local sources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student placements in the region	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Graduates in the region	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regional joint research publications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research contracts with regional industry/business	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Co-patents with regional firms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regional economic impact of university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Are there any other indicators for the five dimensions listed above that you would rate with high relevance? Please remind that the indicators should apply to a global ranking.

Back

Continue

Break

I. Field based ranking

In the second part of this survey we are interested in your opinion about indicators for field based rankings in business and engineering (medical and technical) areas.

Please rate the relevance of the following indicators for field based rankings in business and engineering

II.1. Training and learning

	Business					Engineering				
	very low	rather low	neither / nor	rather high	very high	very low	rather low	neither / nor	rather high	very high
Computer Facilities: Internet Access (business, engin.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provision of laboratories (only engineering)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Qualification of academic staff (business, engin.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student drop rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Production opp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Doctoral completions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Positive rate of graduate unemployment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Relative graduate earnings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student satisfaction: Campus facilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student satisfaction: Timetable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student satisfaction: Events (In-house, seminars, forums)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student satisfaction: Library facilities (only engineering)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student satisfaction: Quality of courses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student satisfaction: Support by lecturers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student satisfaction: Overall judgement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Back

Continue

Break



Multi-dimensional Global ranking of Universities: a feasibility project.

II. Field based ranking

Please rate the relevance of the following indicators for field based rankings in business and engineering.

II.2. Research

	Business					Engineering				
	very low	rather low	neither / nor	rather high	very high	very low	rather low	neither / nor	rather high	very high
External research income (per full time equivalent (FTE) academic staff)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student/graduate satisfaction: Research orientation of programme	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research publication output (per FTE academic staff)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Within country joint research publications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fund-normalised citation rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heavily cited research publications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Back

Continue

Break



II. Field based ranking

Please rate the relevance of the following indicators for field based rankings in business and engineering.

II.3. Knowledge Transfer

	Business					Engineering				
	very low	rather low	neither /or	rather high	very high	very low	rather low	neither /or	rather high	very high
% of academic staff with work experience in business/industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Patents per FTE academic staff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Co-patenting per FTE academic staff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of spin-offs per FTE academic staff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Joint research contracts with private companies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Joint publications with industry (per FTE academic staff)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
License income per FTE academic staff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
License agreements per FTE academic staff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Back](#) [Continue](#)

Break



II. Field based ranking

Please rate the relevance of the following indicators for field based rankings in business and engineering.

II.4. Internationalisation

	Business					Engineering				
	very low	rather low	neither /or	rather high	very high	very low	rather low	neither /or	rather high	very high
% of international students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
% of international academic staff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internationalisation of programme	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Joint international publications (per FTE academic staff)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research grants by international foreign organisations (per FTE academic staff)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Back](#) [Continue](#)

Break

II. Field based ranking

Please rate the relevance of the following indicators for field based rankings in business and engineering.

II.5. Regional Engagement

	Business					Engineering				
	very low	rather low	rather /near	rather high	very high	very low	rather low	rather /near	rather high	very high
Regional participants in Continuing Education Programmes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Summer Schools / courses for secondary education students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Financial support by regional/local enterprises	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Student internships in regional/local enterprises	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Joint R&D projects with regional/local enterprises	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Degree theses (BA, MA, PhD) in co-operation with regional/local enterprises	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public lectures for external auditorium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Are there any other field-based indicators for the five dimensions listed above that you would rate with high relevance?
Please remind that the indicators should apply to a global ranking.

Thank you very much for your participation.

Finally we ask for some information about your background in order to be able to contextualise the answers.

Which groups of stakeholders are represented by your organization?

Multiple answers are possible!

- Students
- Academic staff
- Higher education institutions
- Policy makers
- Employers
- Quality Assurance
- Others:

Is your organisation national or international?

- National
- International

Back

Continue

Break

Appendix 3: Pre workshop survey results

In this short note the results of the online questionnaire regarding the relevance of the U-Multirank indicators are summarized.

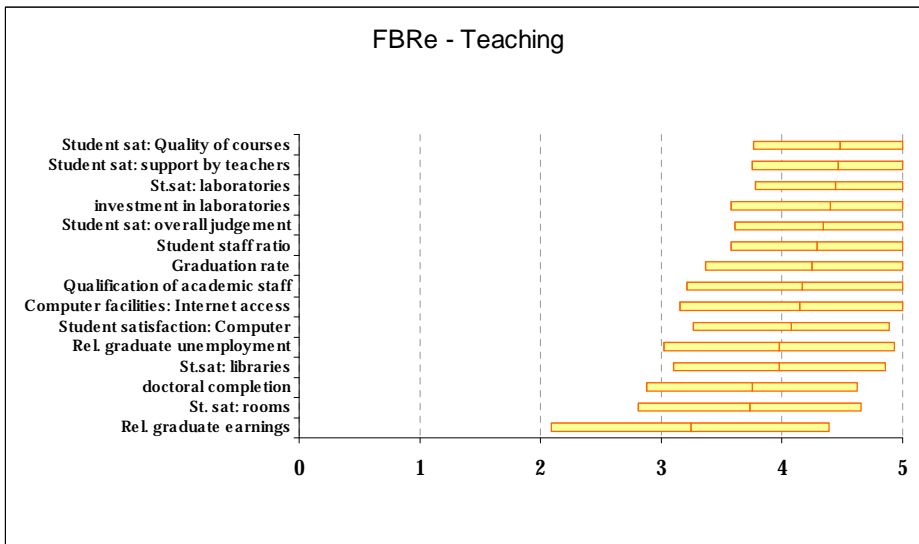
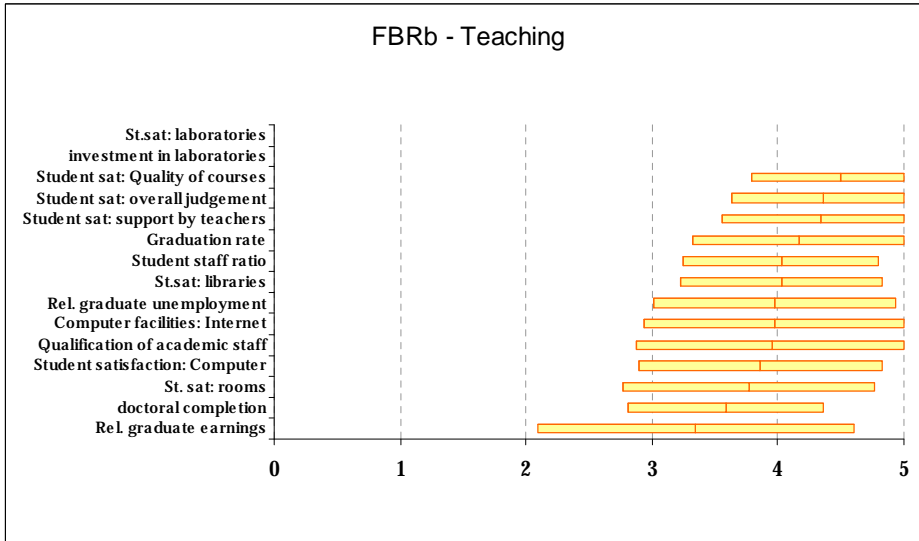
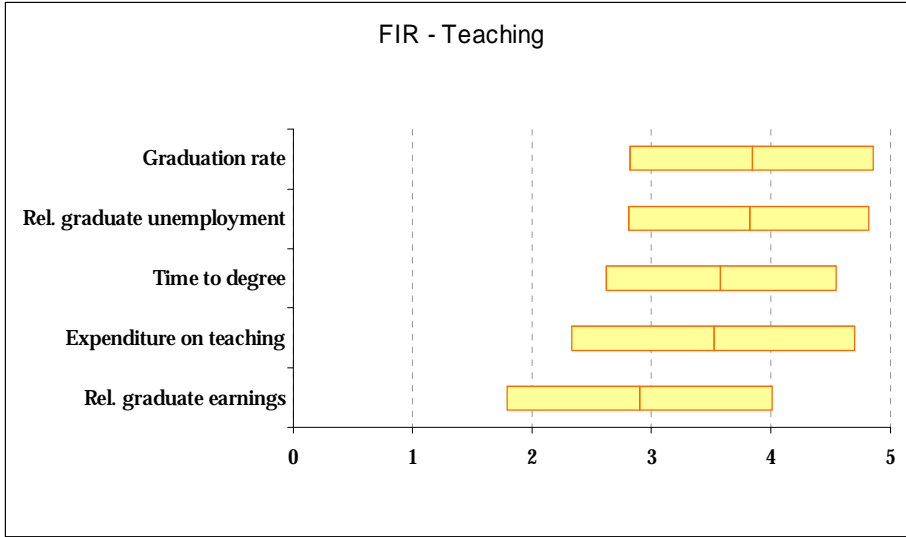
These results served as an input for the first working group session at the Stakeholder workshop.

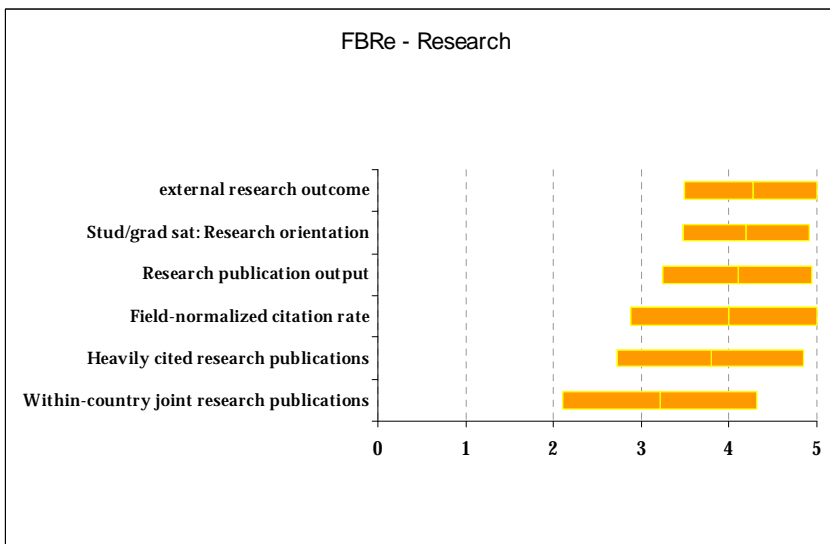
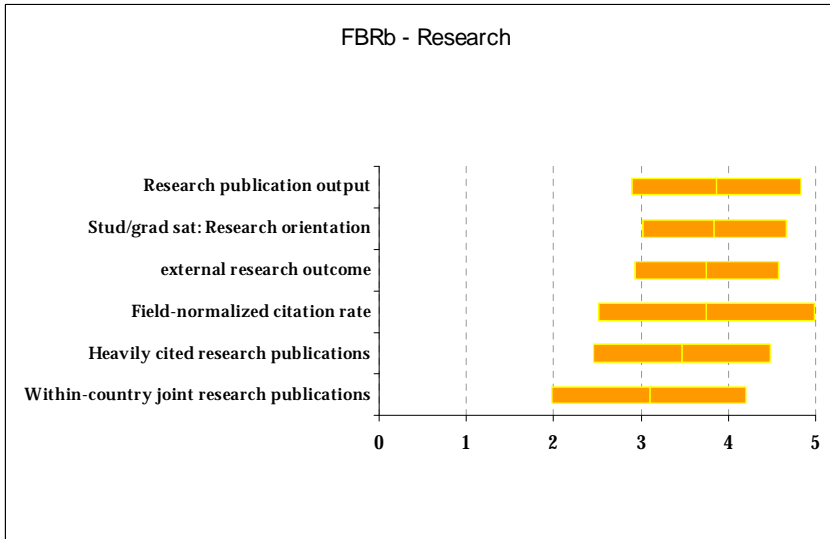
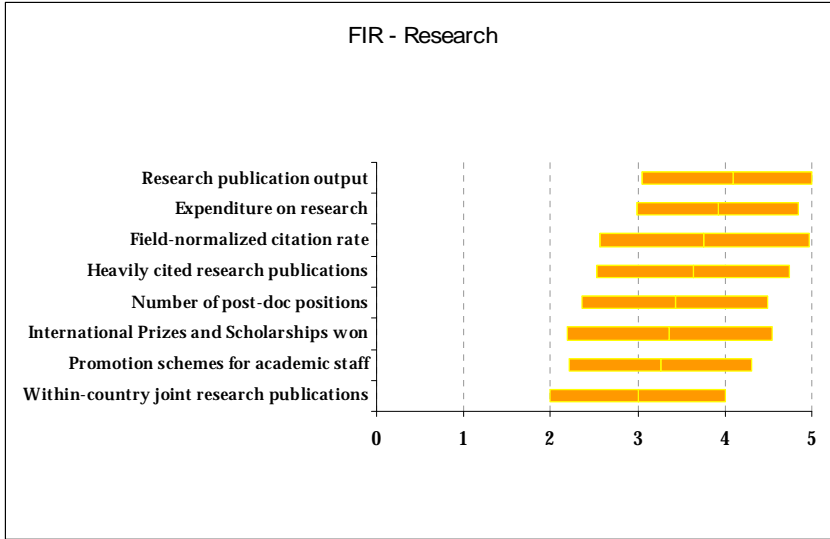
For each indicator the average score is presented, as well as a bandwidth of 1 standard deviation, showing the dispersion around the average. If the bandwidth is small, consensus is high and if the bandwidth is large, consensus is low.

The number of respondents was 63.

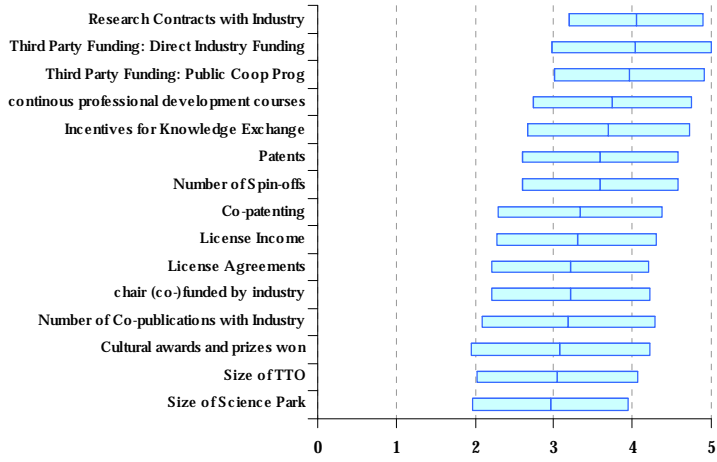
The indicators are presented by dimension and, where appropriate, by type of ranking.

- FIR = Focused Institutional Ranking
- FBR = Field Based Ranking
- FBRe = Field Based Ranking engineering
- FBRb = Field Based Ranking business

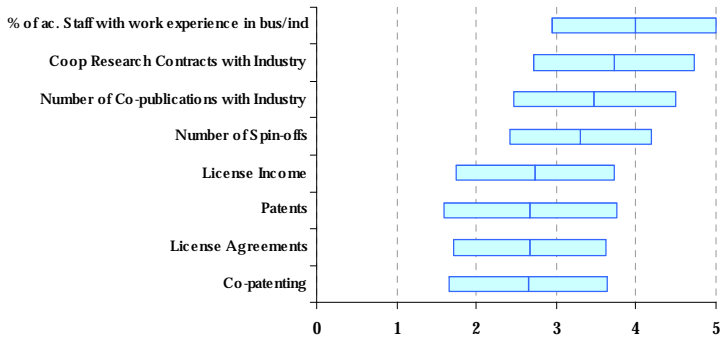




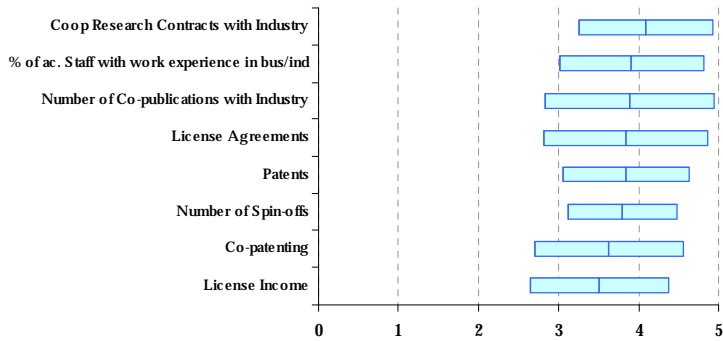
FIR - Knowledge transfer

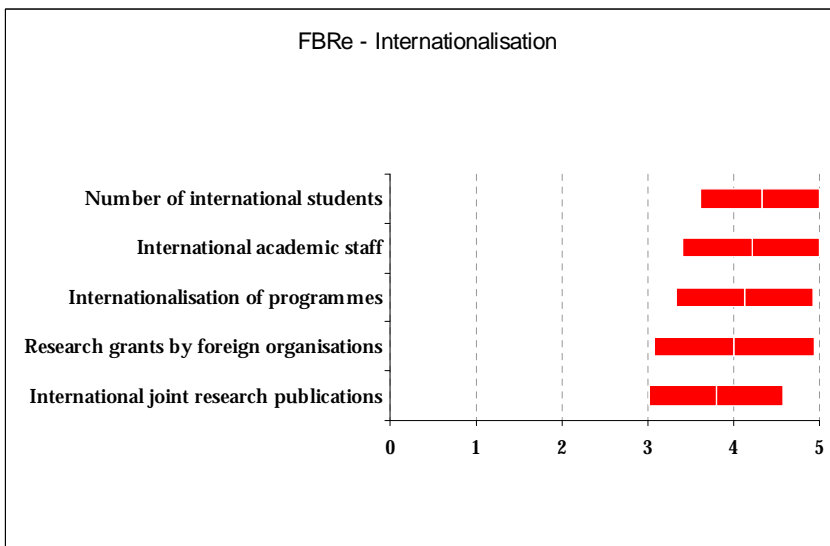
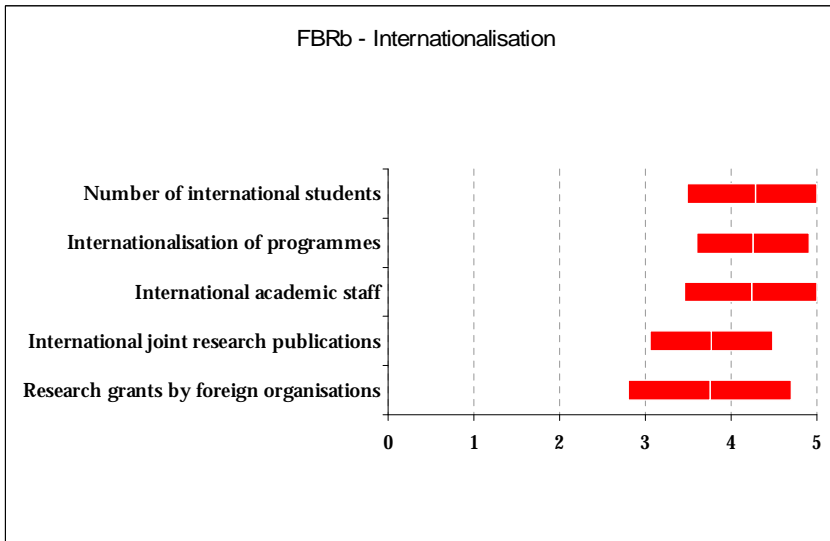
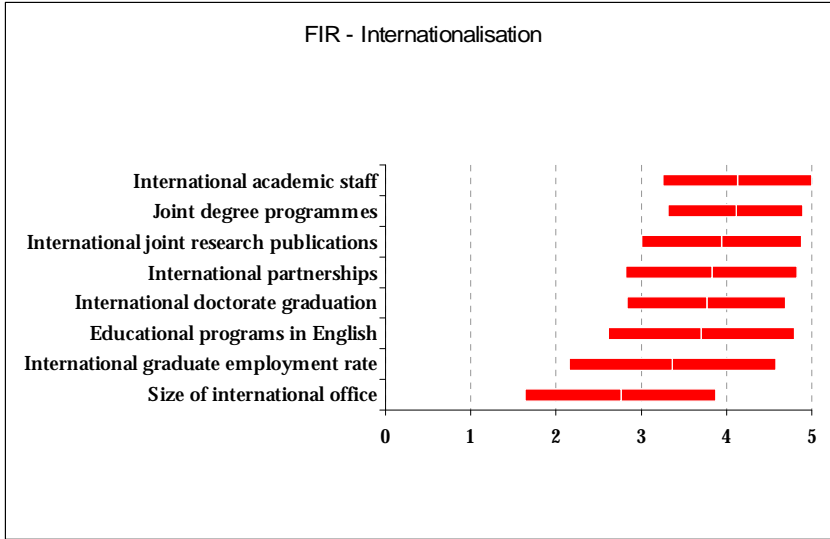


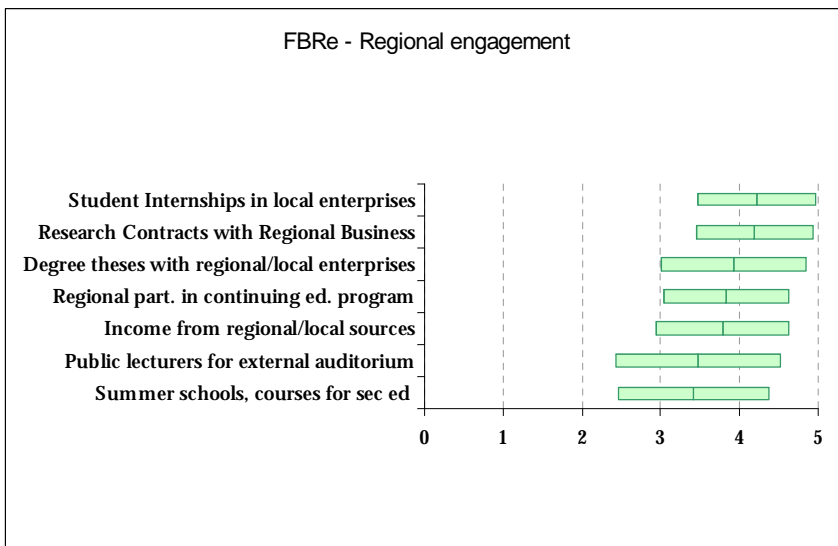
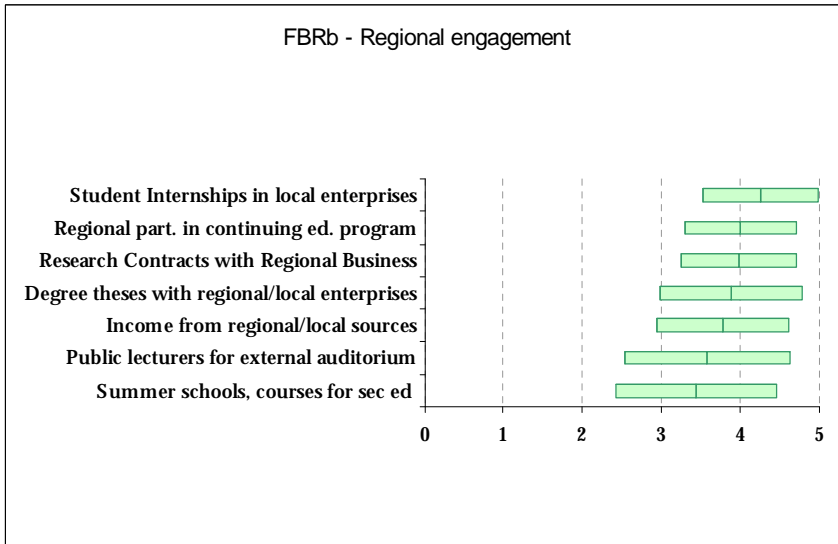
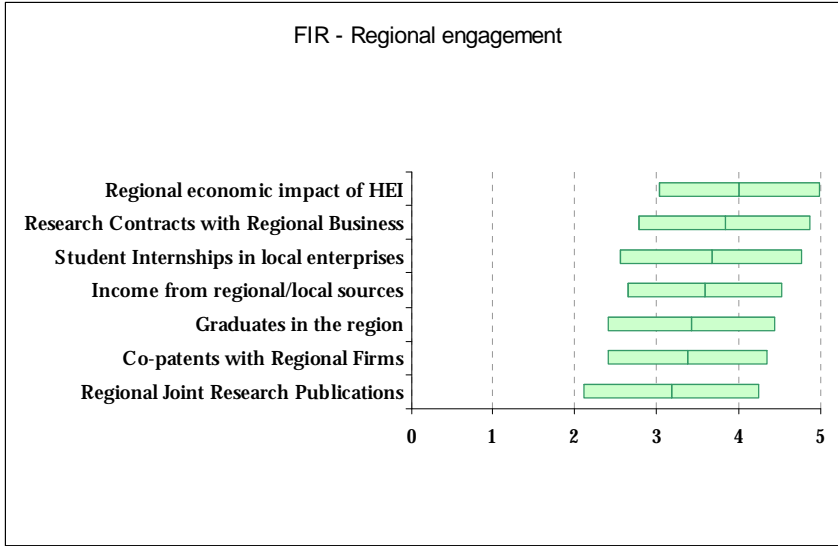
FBRb - Knowledge transfer



FBRc - Knowledge transfer







Appendix 4: Post workshop survey results

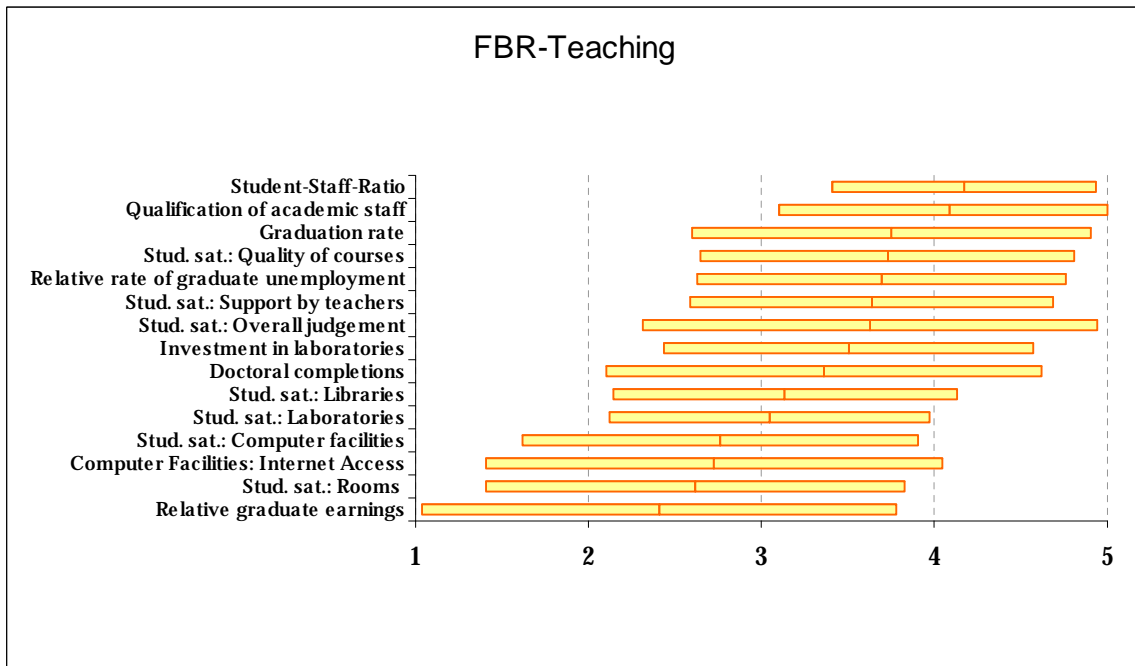
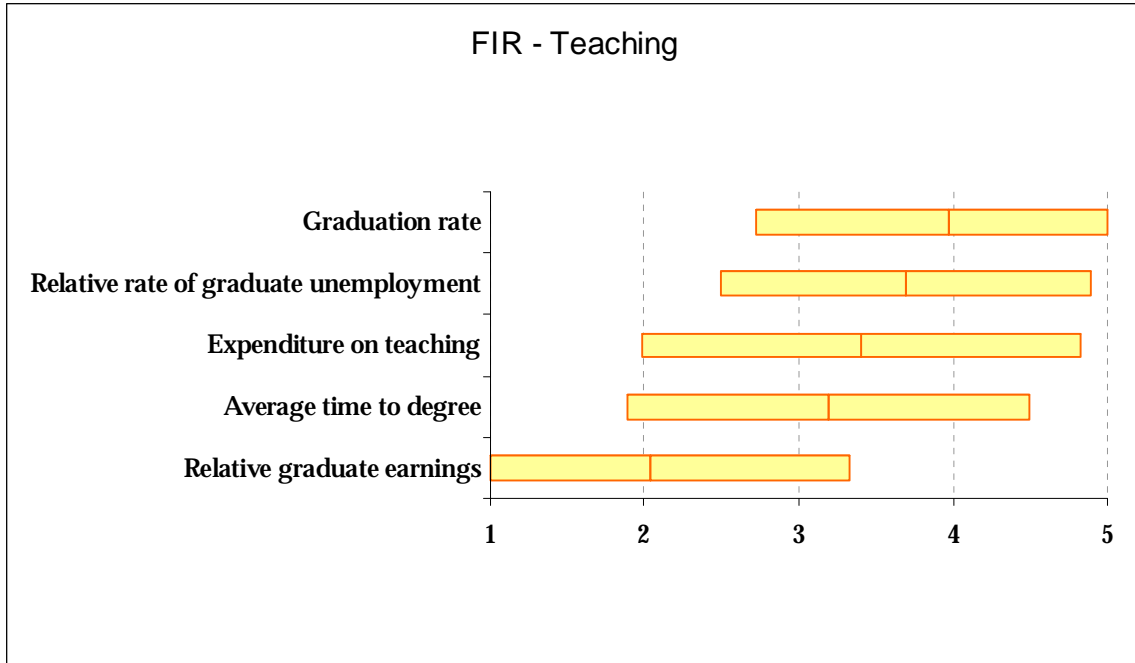
In this short note the results of the survey at the end of the workshop are summarized.

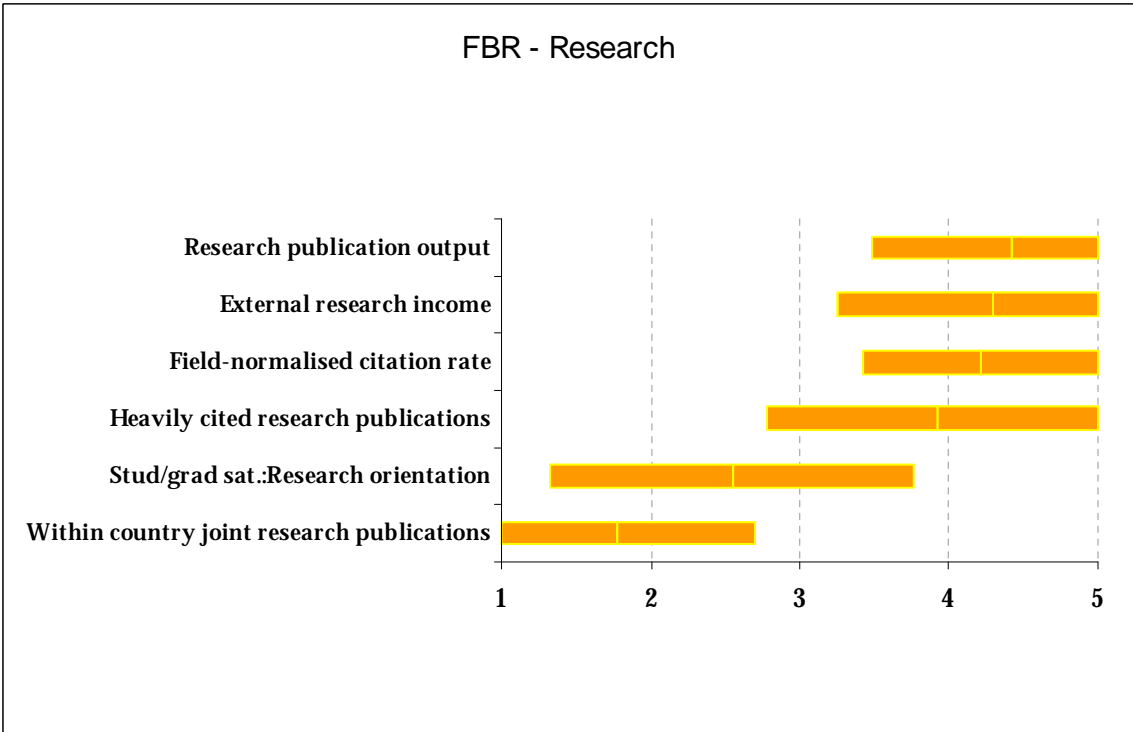
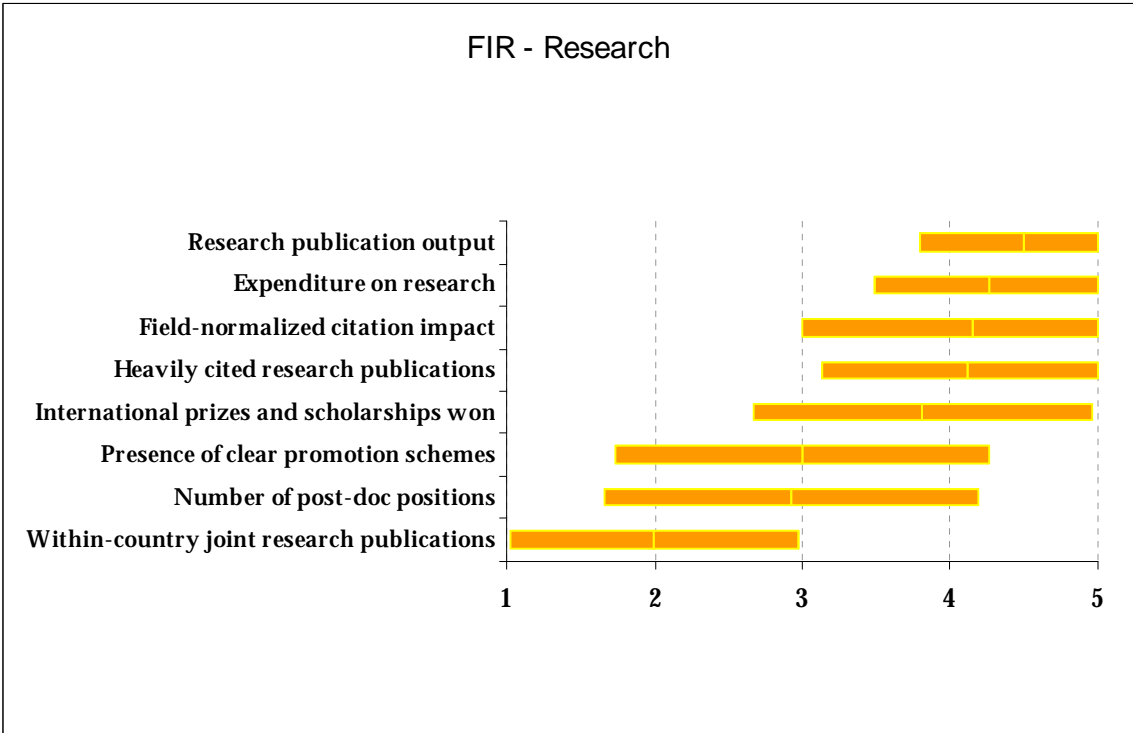
For each indicator the average score is presented, as well as a bandwidth of 1 standard deviation, showing the dispersion around the average. If the bandwidth is small, consensus is high and if the bandwidth is large, consensus is low.

The number of respondents was 30.

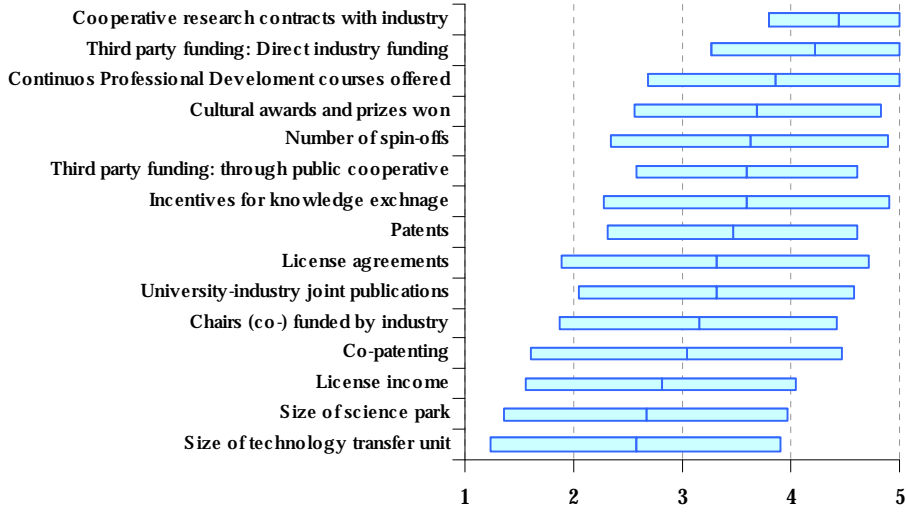
The indicators are presented by dimension and by type of ranking.

FIR = Focused Institutional Ranking
FBR = Field Based Ranking

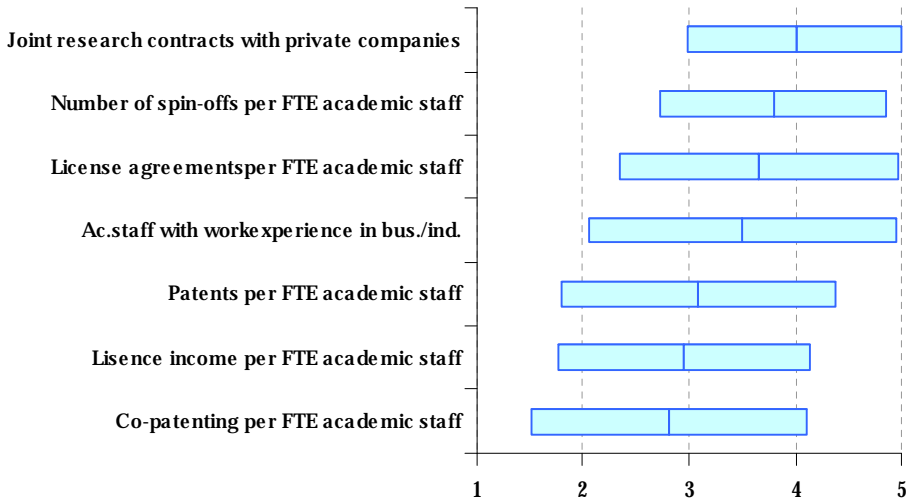


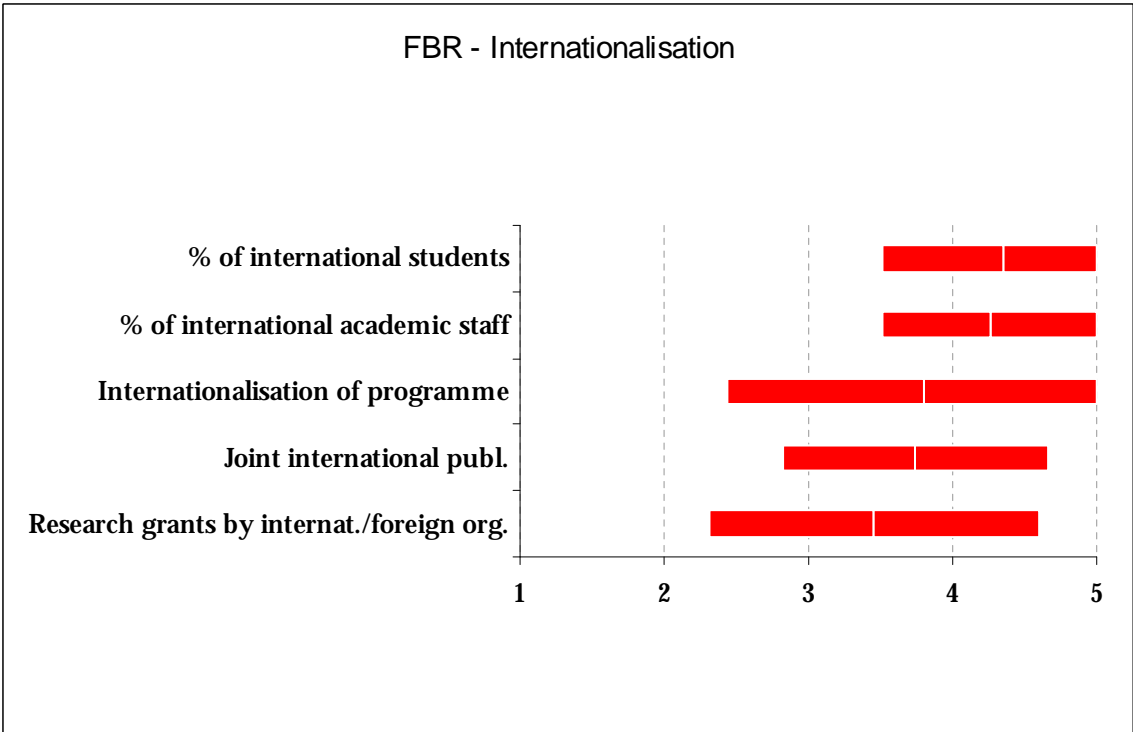


FIR - Knowledge transfer

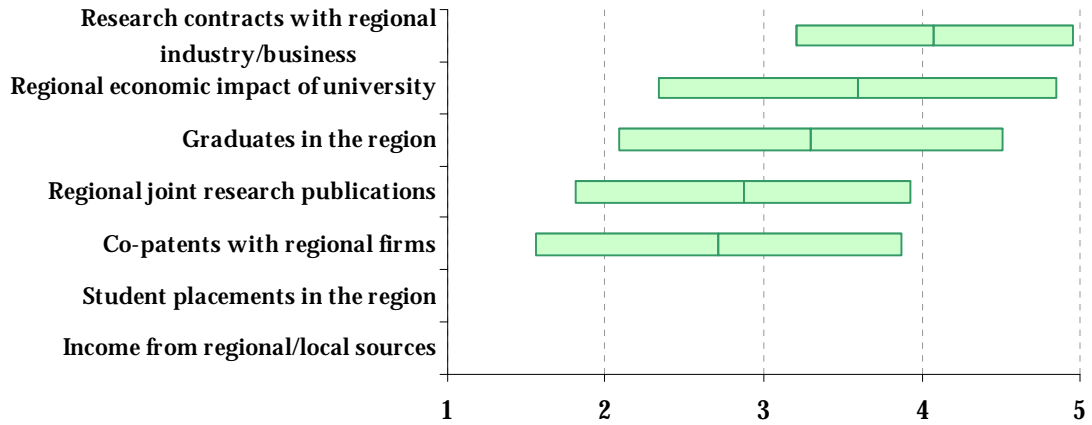


FBR - Knowledge transfer

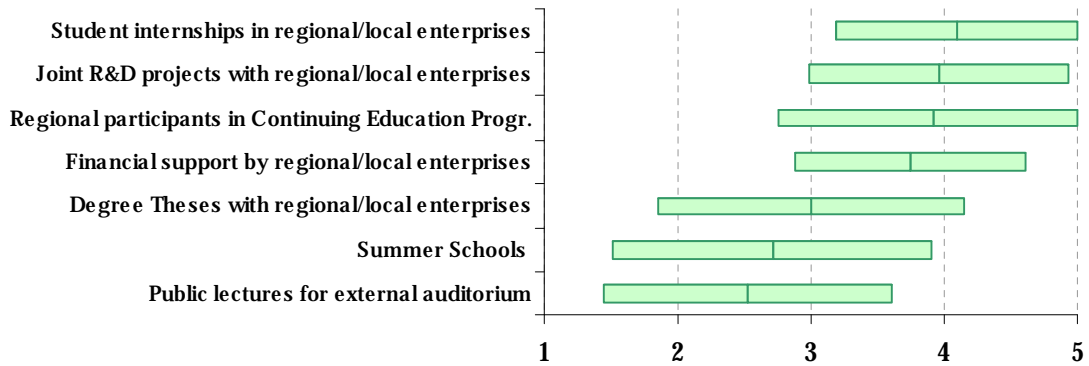




FIR - Regional engagement



FBR - Regional engagement



Appendix 5: Overview of U-Multirank indicators, voted ‘in’ and ‘out’

in	out
international orientation	
Field Based Ranking	
<ul style="list-style-type: none"> • International doctorate graduation rate • International academic staff • Incoming and outgoing students • Joint international publications • Internationalisation of programmes • Joint international projects 	<ul style="list-style-type: none"> • International research grants • Percentage of international students • Student satisfaction: Opportunities for a stay abroad
Focused Institutional Ranking	
<ul style="list-style-type: none"> • Number of educational programmes in foreign language • International teaching and research staff • International joint research publications • Joint degree programmes • Incoming and outgoing students 	<ul style="list-style-type: none"> • International partnerships • Number of educational programmes in English • International doctorate graduation rate • Size of international office • International graduate employment rate • Foreign degree seeking students
knowledge exchange	
Field Based Business	
<ul style="list-style-type: none"> • Co-publications with industry 	<ul style="list-style-type: none"> • Co-patenting
Field Based Ranking	
<ul style="list-style-type: none"> • Licence agreements 	<ul style="list-style-type: none"> • Patents

in	out
----	-----

- Number of spin-offs
- Academic staff with experience in industry
- Joint research contracts with private sector

- Licence income

Focused Institutional Ranking

- Incentives for knowledge exchange
- Cooperative research contracts with industry
- Size of technology transfer unit
- Continuous professional development courses
- Third party cooperative funding (public and direct industry)
- University-industry joint publications
- Cultural awards and prizes won

- Third party funds: public cooperation programmes
- Licence income
- Patent applications filed
- Spin-offs
- Chairs (co-)funded by industry
- Co-patenting
- Licence agreements
- Size of science park
- Third party funds: direct industry funding

regional engagement

Field Based Ranking

- Financial support by regional enterprises
- Regional participants in continuing education programmes
- Joint R&D projects with regional/local enterprises
- Student internships in regional enterprises
- Regional spin-offs
- Percentage of regional enrolment

- Degree theses in co-operation with regional enterprises
- Public lectures for external audiotium
- Summerschools/ courses for secondary education students

Focused Institutional Ranking

- Income from regional sources
- Community engagement
- Research contracts with regional business
- Graduates working in the region
- Regional impact of university

- Co-patents with regional firms
- Regional joint research publications
- Student internships in local enterprises

research

Field Based Ranking

- Research publication output

- Within country joint research

in	out
<ul style="list-style-type: none"> • External research income • Heavily cited research publications • Post-doc positions • Field-normalised citation rate 	<ul style="list-style-type: none"> • publication • Student satisfaction: research orientation of educational programme
Focused Institutional Ranking	
<ul style="list-style-type: none"> • International prizes and scholarships won • Heavily cited research publications • Field normalized citation impact • Research income • Research output • Research related HRM development • Interdisciplinary research activities • Art related outputs • Expenditure on research • Research income from competitive sources 	<ul style="list-style-type: none"> • Presence of clear promotion schemes • Within-country joint research publications • Research publication output
teaching and learning	
Field Based Business	
<ul style="list-style-type: none"> • Student satisfaction: libraries 	<ul style="list-style-type: none"> • Computer facilities: internet access • Doctoral completions
Field Based Ranking	
<ul style="list-style-type: none"> • Investment in laboratories • Interdisciplinarity of programmes • student satisfaction: computer facilities • student satisfaction: laboratories • Student satisfaction: support by teachers • Student satisfaction: quality of courses • Student-staff ratio • Student satisfaction: overall judgement • Graduation rate • Relative rate of graduate unemployment 	<ul style="list-style-type: none"> • Graduate satisfaction: Labour market relevance of their qualifications • Inclusion of issues relevant for employability in the programme/curricula • Inclusion of work experience into programmes • Student/graduate satisfaction: inclusion of work experience in the programme • Student satisfaction: rooms • Relative graduate earnings • Qualification of academic staff

in

out

- Percentage of academic staff with workexperience in business and industry

Focused Institutional Ranking

- Interdisciplinarity of programmes
- Relative rate of graduate unemployment
- Graduation rate
- Expenditure on teaching
- Relative graduate earnings
- Average time to degree