

## **UNICA Core Group on Evaluation in Research and Higher Education**

### **1. Mission**

2. Decisions taken in Brussels (2010/02)
3. Core Group WEB site
4. Methodology
5. Discussion on dimensions and indicators
6. TO DOs
7. Varia

UNICA meeting  
Tallin, May 2010

### **1. MISSION (1)**

#### ***A UNICA Core Group on Evaluation in Research and Higher Education***

*to provide to the UNICA network a **toolbox** of research  
evaluation methodologies adapted to different "cases"  
identified as interesting by the UNICA members*

## 1. MISSION (2)

### 11 UNICA Universities; 1 funding agency

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Portugal to be added

## 1. MISSION (3)

### 3 main preliminary questions must be treated before developing any research evaluation procedure

1. To list the possible **objects** to evaluate
  - Projects
  - Researchers
  - Teams, faculties, centres, ...
  - ...
2. To list the possible **goals** of an evaluation
  - Typology
  - Ranking
  - Swot analysis
  - ...
3. To list the possible **users** of an evaluation
  - Rectors
  - Researchers
  - Governments, funding agencies
  - Media, public,
  - ...

➤ One **case** is defined by a combination of answers to each of the **3 questions**

➤ To focus on **some cases** in priority

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## 2. DECISIONS TAKEN in Brussels (2010/02) (1)

*A working session involving members from 10 countries*

### 1. Selection of 3 Case Study

Case study number	Object	Goals	Users
1	Faculties	Strong and weak points	Rectors
2	Group/department ( <i>smaller groups than "faculties"</i> )	Strong and weak points	Rectors
3	Teams, groups, faculties	Strong and weak points	Public

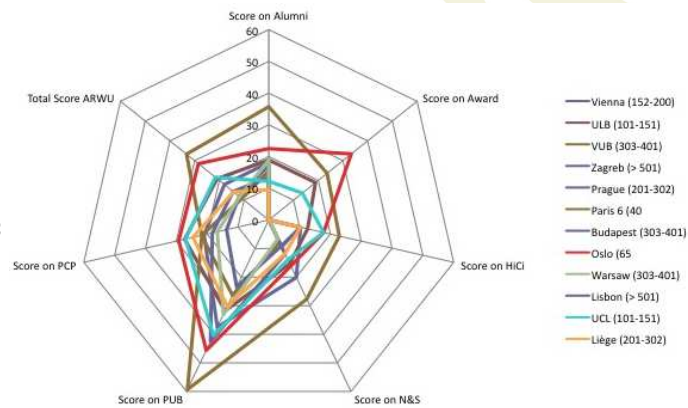
2. Tools of the group: **website** to be prepared
3. Case studies to be prepared (**concepts, indicators, ...**)

## 2. DECISIONS TAKEN in Brussels (2010/02) (2)

### 4. Agreement on the **needed multidimensionality**

The 6 *desaggregated* indicators of the Shanghai ranking

Data for the members of the UNICA Core Group



### 5. Reliability of data $\Rightarrow$ care to be taken for the **collection of data!**

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### 3. CORE GROUP WEBSITE (1)

<http://www.fnrs.be/unica>

**Username:** UNICA (in capitals)  
**Password:** evaluation (lower case letter)

### 3. CORE GROUP WEBSITE (2)

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### 4. METHODOLOGY (1)

#### *Selection of first practical case studies*

##### 4.1 Choice of 1 Case Study

Case study number	Object	Goals	Users
1	Faculties	Strong and weak points	Rectors
2	Group/department ( <i>smaller groups than "faculties"</i> )	Strong and weak points	Rectors
3	Teams, groups, faculties	Strong and weak points	Public

##### 4.2 Choice of fields/group/department

Suggestion: to start with

- > Economic/business
- > Physics

## 4. METHODOLOGY (2)

### *Basic data*

#### 4.3 Questionary (sent mid-May 2010)

- Preliminary information/**basic data** on the University
- Preliminary information/**basic data** on the research field chosen for the case study

Overall Budget 2009	
Overall research budget 2009	
• Basic allocations	
• Competitive grants- national	
• Competitive grants-international	
Overall number of students	
Number of Professors- Academic permanent positions FTE	
Number of Researchers –Non permanent positions	
Number of registered doctoral students	
Overall number of administrative and technical staff in FTE	

## 4. METHODOLOGY (3)

### *Dimensions/concepts*

#### 4.3 Questionary

- Preliminary information/**basic data** on the University
- Preliminary information/**basic data** on the **research field** chosen for the **case study**
- **Dimensions (concepts) what** do we want to take into account? (in order to identify strong and weak points for the rectors!!!)
  1. Scientific output
  2. Group's coherence
  3. *Networking*
  4. Efficacy/effectiveness
  5. Attractiveness/internationalisation
  6. Research training
  7. Promoting excellence
  8. Research valorisation
  9. *Vulgarisation*
  10. *Risk taking*
  11. *Link to education*
  12. ....

*To be discussed!*

## 4. METHODOLOGY (4)

### *The importance of indicators/criteria*

#### 4.3 Questionary

- Preliminary information/**basic data** on the University
- Preliminary information/basic data on the research field chosen for the case study
- **Dimensions: what** do we want to take into account?
- **Indicators: how** do we want to take into account the dimensions (concepts)?
  1. List of indicators (to be discussed! comments and inputs asked to the Core Group by mail, mid-May)
  2. Data for the period 2003-2008
  3. First data collected from the **VUB (Brussels) and Warsaw University** ⇒ *starting point for illustration and discussion*

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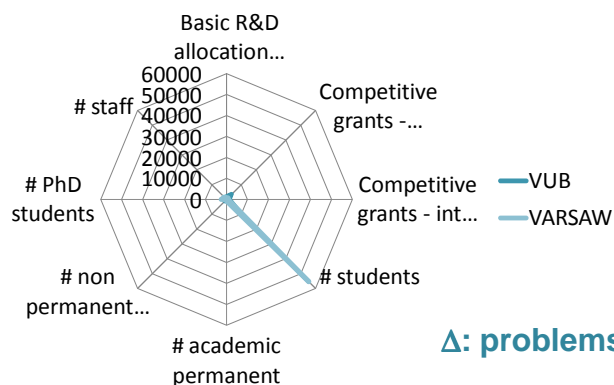
## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB DATA) (1)

### 4.1 Basic data VUB

Overall Budget 2009	
Overall research budget 2009	78.742.414 EUR+ 292 fellowships (1st to 4th stream) [1]
• Basic allocations	13.389.030 EUR + 45 fellowships (1st stream) [1]
• Competitive grants- national	33.485.876 EUR+ 247 fellowships (2nd and 3rd stream and national) [1]
• Competitive grants-international	14.113.562 EUR (3rd stream and international) [1]
Overall number of students	10.534 in 2008/2009 (incl. doctoral and postgraduate students and various study contracts) [4]
Number of Professors- Academic permanent positions FTE	317,70 FTE ZAP on 01.02.2009 [2]
Number of Researchers -Non permanent positions	1.135,47 FTE AAP and WP postdoc and predoc on 01.02.2009 [2]
Number of registered doctoral students	1128 in 2008/2009 [1]
Overall number of administrative and technical staff in FTE	467,90 FTE ATP on 01.02.2009 [3]

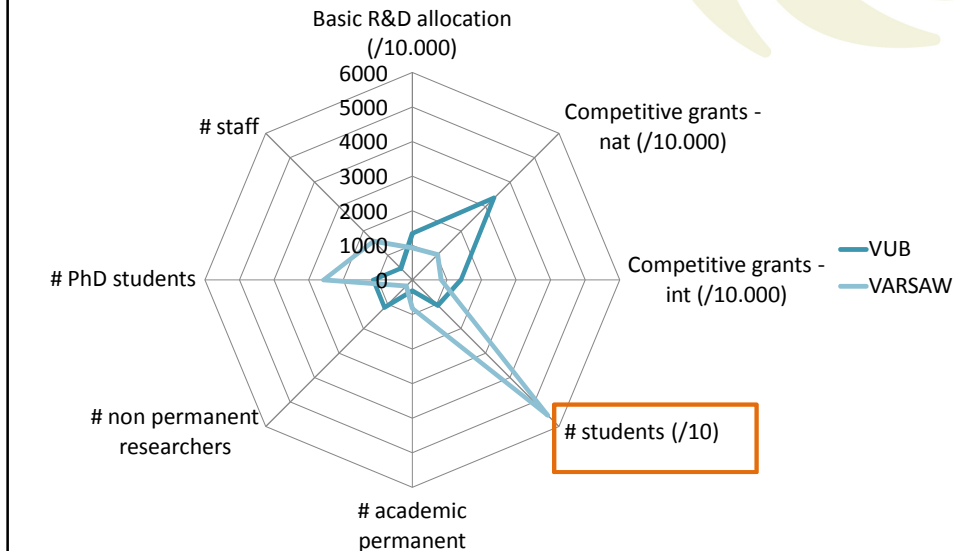
## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB and WARSAW DATA) (2)

### 4.1 Basic data VUB and Warsaw



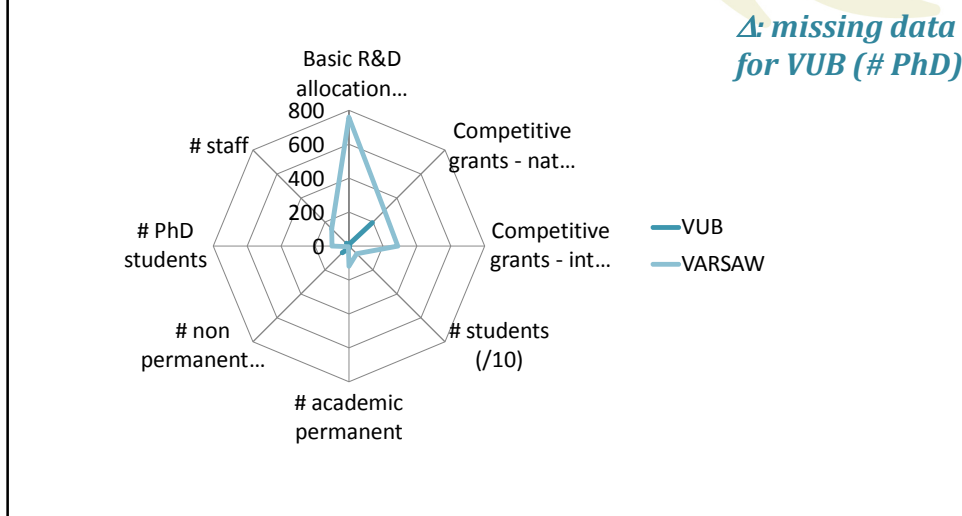
## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB and WARSAW DATA) (3)

### 4.1 Basic data VUB and Warsaw



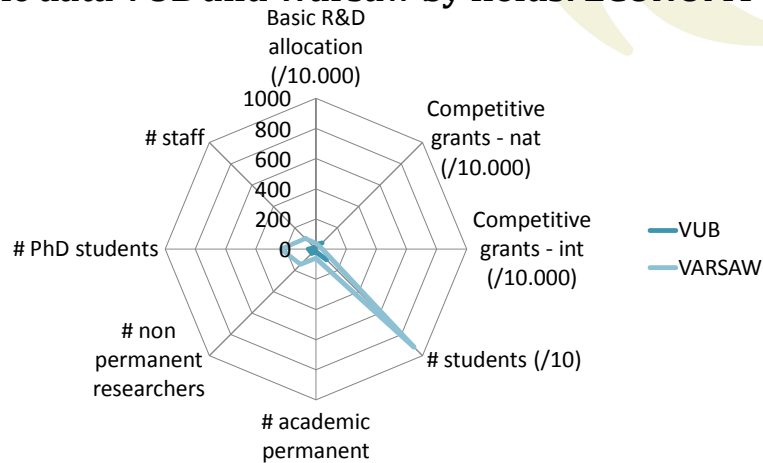
## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB DATA) (4)

### 4.2 Basic data VUB and Warsaw by fields : PHYSICS



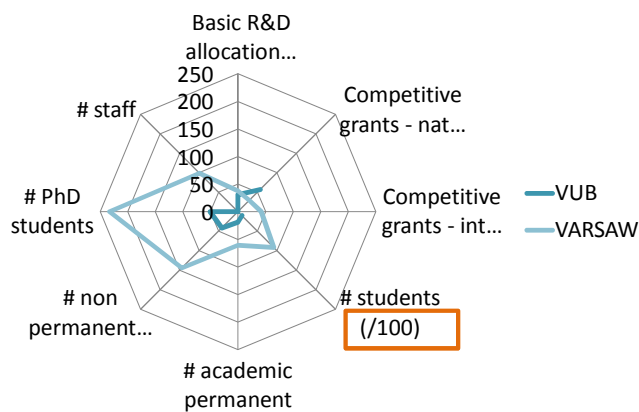
## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB DATA) (5)

### 4.2 Basic data VUB and Warsaw by fields: ECONOMY



## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB DATA) (6)

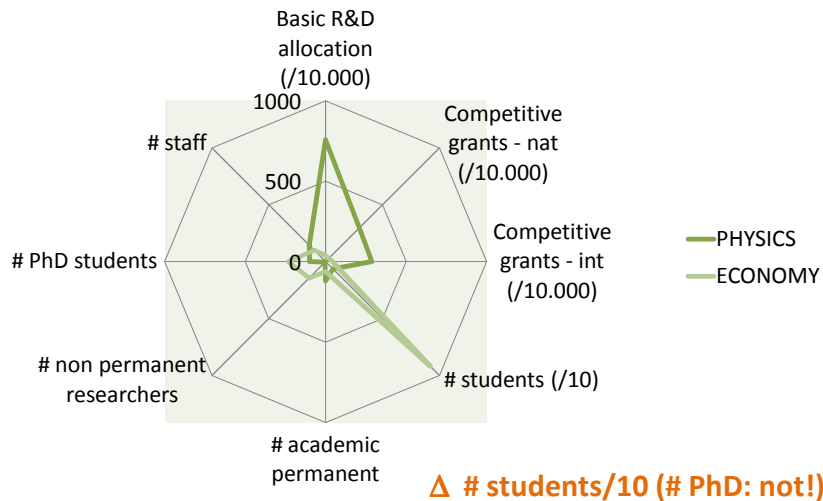
### 4.2 Basic data VUB and Warsaw by fields: ECONOMY



Scale for students!!

## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (WARSAW DATA) (7)

### 4.2 Basic data Warsaw by fields



## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB data for physics) (8)

### 4.3 Dimension 1: Scientific Output

Dimensions	Indicators 2003-2008	Data 2003-2008 <u>unless stated otherwise</u>
Scientific output	5. <u>Publications:</u>	
	- Total number of peer review publications in journals	418 (VUB cat. C and E) [5]
	- Number of publications in <i>Web of Sciences</i> (articles, letters, reviews)	915 (915 SCIE) (physics excl. Astronomy)
	- Total number of books or chapters of books	54 (VUB cat. A, B, D and F) [5]
	- University- Industry joint publications <sup>7</sup>	<i>not readily available for this discipline</i>
6. <u>Visibility and quality of research:</u>		
- Citations in <i>Web of Science</i> (published in the time frame indicated)	4.546 (citing SCIE pub. from 2003-2008 in 2003-2008) (physics excl. Astronomy)	

## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB data for physics) (9)

### 4.3 Dimension 2: Group Coherence

Dimensions	Indicators 2003-2008	Data 2003-2008 unless stated otherwise
Group's coherence	- Number of single authors publications	<i>not readily available</i>
	- Number of University self-citations	1.802 (citing SCIE pub. from 2003-2008 in 2003-2008)
	- <i>Other indicators open to discussions</i>	<i>Please send us your suggestions!</i>

## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB data for physics) (10)

### 4.3 Dimension 3: Efficacy/Effectiveness

Dimensions	Indicators 2003-2008	Data 2003-2008 unless stated otherwise
Efficacy/Effectiveness	- <i>Indicators to be discussed</i>	<i>Please send us your suggestions!</i>

#### 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB data for physics) (11)

##### 4.3 Dimension 4: Attractiveness/internationalisation

Dimensions	Indicators 2003-2008	Data 2003-2008 unless stated otherwise
<u>Atractiveness/ internationalisation</u>	- Number of international researchers	21,1 VTE or 23 members on 01.02.2009 [3]
	- <i>Other indicators to be discussed</i>	<i>Number of international PhD students</i>

#### 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB data for physics) (12)

##### 4.3 Dimension 5: Research Training

Dimensions	Indicators 2003-2008	Data 2003-2008 unless stated otherwise
<u>Research training</u>	- Number of PhD students	51 in 2008/2009 [1]
	- Number of PhD students in co-tutelle with foreign partners	1 since 2006/2007 (status 10.02.2010)
	- Number of Doctoral Thesis produced/ published	
	- Number of PhD degrees awarded to students of other nationality	

## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB data for physics) (13)

### 4.3 Dimension 6: Promoting Excellence

Dimensions	Indicators 2003-2008	Data 2003-2008 <i>unless stated otherwise</i>
Promoting excellence	<ul style="list-style-type: none"> <li>- Number of scientific prizes</li> <li>- International Prizes*<sup>8</sup></li> <li>- National Prizes*<sup>9</sup></li> <li>- Joint research prizes</li> </ul>	<i>requested selections not readily available</i>

## 4. DISCUSSION ON DIMENSIONS AND INDICATORS (VUB data for physics) (14)

### 4.3 Dimension 7: Research Valorization

Dimensions	Indicators 2003-2008	Data 2003-2008 <i>unless stated otherwise</i>
Research Valorisation	<ul style="list-style-type: none"> <li>- Patents and co-patents</li> <li>- Spin offs</li> <li>- License income</li> <li>- License agreements</li> </ul>	<i>not readily available per discipline</i>

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### 5. TO Dos

- **Validation of concepts/ dimensions and indicators/criteria**
- **Collection of data** inside the Core Group
- **Validation of data**
- **Analysis of data** in the perspective of the studied case

⇒ I Case study, 2 fields, ~10 universities

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## 6. VARIA

U-MAP : **CREF** (Universities of the French Community of Belgium – 3 comprehensive universities: UCL, ULB, Ulg) will enter data on U-MAP

