

**IKU** **Third Mission** Lugano, 15th November, 2006

**3<sup>rd</sup> Mission in 21 century: Out reach + In reach**

- *Out reach* activity has been expanding
- *In reach* activity is penetrating: progress in 3<sup>rd</sup> mission from traditional toward new one touches upon M1 (teaching) and M2 (research)

3<sup>rd</sup> mission has 2 dimensions

Economic                      Societal

Both activities and dimensions are challenges for measuring

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**IKU** **Profile of University 3rd Mission**

The multiple dimensions of the 3<sup>rd</sup> mission call for indicators by issues.

1. Human resources (4)      2. Intellectual property (4)

3. Spin-offs (2)

4. Contracts with industry (7)

5. Contracts with public bodies (2)

6. Participation into policy making

7. Involvement into social and life

8. Public understanding of science

Notes  
 ■ : Economic dimension  
 □ : Societal dimension

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**IKU** **Example: Patents**

Indicators

1. Number of active patents owned by the university
2. Number of patents produced by the university
3. University revenues from the licensing of patents, copyright
4. Joint IPRs by university professors and firm employees

Patents can be

Owned by university      Invented by faculty members

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**Patents (continued)**

**Patent rich university**  
 Number of Inventions by Employment Status at 2 Laboratories of a Large French University

Employment status	Nr of person	Nr of invention
FT permanent researchers before mid career promotion	9	15
FT permanent researchers after mid career promotion	8	15
Junior research engineer	2	6
Senior research engineer	5	11
Assistant professor (tenured)	6	9
Tenured university professor	15	69
<b>Total</b>	<b>45</b>	<b>125</b>

**Emerging inventors**  
 UAM Number of Applications and Licenses by department in 2005

Department	Nr. of Applications	Nr. of Granted
Applied Physical Chemistry	1	1
Psychology	1	0
Geography	1	0
Surgery	7	5
Agro chemistry	10	0
Physics	8	0
Applied Physics	10	0
Inorganic chemistry	12	0
Material physics	12	0
Biochemistry	12	8
Medicine	17	7
Molecular biology	28	11
Computer engineering	2	0
<b>Total</b>	<b>142</b>	<b>35</b>

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**The increasing worldwide competition among HE organisations creates demands to a greater extent for detailed information on universities 3rd mission . . .**

- HE measurements for the 3rd mission is a new field.
- This chapter could identify the relevant indicators and markers by *economic dimensions*.
- Scarcity of quantitative information on 3<sup>rd</sup> mission
- Available data and indicators have international diversity, the breakdown of data is various.

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The development in universities databank & international harmonisation are crucial to move further in this field of indicators.

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More + Various types of European universities in pilot phase

*Blue sky exercise has to investigate:*

1) *In-rich activities*  
 2) *Social dimension*

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