

Entrepreneurial Universities: Partnerships and Collaboration

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Summary of Presentation

- I. EUA as European Stakeholder for Universities:
Core Messages
- II. EUIMA Project on Collaborative Research
- III. Responsible Partnering Guidelines
- IV. Towards New Indicators and Performance
Measurement

EUA Core Messages

1. Universities: Key stakeholders in building the European Research Area (ERA)

- Major role in supplying trained researchers
- Diverse missions in basic and collaborative research
- Capacity to foster interdisciplinary research skills and expertise
- Embeddedness in cities and regions as components of social and economic development
- Focal points for dialogue and knowledge exchange with society
- International cooperation building upon institutional historical and cultural links – strengths and capacities

2. Drivers of change in University-based Research

- External funding sources accounting for ever higher proportions of university research budgets
- Coupled with the need to both compete and co-operate in building European (and International) research
- Emergence of complex research issues (reflecting global challenges) requiring new interdisciplinary approaches and skills
- Growing societal demand for highly trained graduates and researchers for non-academic labour markets
- Impact of the digital revolution on the research process and knowledge exchange

3. Strong Universities in the European Research System

Universities as Research Institutions Require:

- Greater autonomy in their leadership and financial / administrative structures e.g.
 - ✓ To offer competitive salaries
 - ✓ To recruit on European (and international) level
- To move towards full cost accounting of their research activities – away from a 'low cost culture'
 - ✓ Sustainable funding conditions for university-based research, particularly from external funding sources in covering indirect research costs
 - ✓ Specific incentive funding mechanisms to foster partnerships between universities and other research institutions both public and private

II. EUIMA-Collaborative Research Objectives

General Objectives:

- To propose ways to take into account collaborative research activity and its outcomes in university assessment methodologies with respect to their strategic missions.
- To support universities who wish to strengthen their collaborative research through promotion of good practices in relation to different external partners, business enterprises, regional authorities, non-government organisations, civil society organisations etc.

EUIMA Collaborative Research Builds on

- The Responsible Partnering initiative and its definition of Collaborative Research:

“Activities where several parties are engaged in research towards shared objectives, collectively building on their individual background and sideground in the creation of new foreground knowledge.”

by EIRMA, EUA, EARTO and ProTon, 2005 and 2009

- The European Commission’s expert group report “Assessing Europe’s University-based Research”, EC Expert Group Report 2010
- The outcomes of studies on collaborative doctoral education at European level by EUA: DOC-CAREERS Report, EUA 2009

EUIMA Collaborative Research Types of Case Studies

Types of Partnerships:

University - Large Companies

University - Small and Medium Enterprises (SME)

University - Research and Technology Organisations (RTO)

University - Non-Governmental Organisations/Non-profit

University - Regional/Local/National Government (beyond funding)

University - Spin-Off

University - Other

Areas of Knowledge:

SET: Science, Engineering and Technology

BML: Biotechnology, Medical and Life Sciences

ESSH: Economics, Social Sciences and Humanities

EUIMA - Collaborative Research Target Stakeholders

1. European Universities involved in collaborative research
2. Companies and businesses involved in collaborative research
3. Public Research Organisations (PROs) working together with universities
4. RTD performers, Research and Technology Organisations (RTOs), etc.
5. Technology transfer offices/intermediary bodies
6. Higher education and research policy-makers at national and European levels

EUIMA - Collaborative Research

Types of Input

EUA Questionnaire and Guidelines: Collection of structured input

- Institutional context and framework
- Data – 3 types of initiatives: project/programme/institutional
- Setting up, managing and sustaining research collaboration
- Human resources aspects
- Assessment of the collaborative research activity
- Impact and lessons learned



Workshops: Experts dialogue

35-45 Participants, 1^{1/2} days

- Addressing project objectives based on questions from questionnaire
- Foster sharing of good practices
- Discussions on ways of assessing collaborative research
- Policy implications

Other sources: literature, reports, other projects etc.

EUIMA - Collaborative Research Participant Organisations

19 Universities
and their
external
partners

12 countries



Participant Universities

- Aalborg University, Denmark
- Autonomous University of Madrid, Spain
- Ruhr University Bochum, Germany
- Chalmers University of Technology, Sweden
- Czech Technical University in Prague, Czech Republic
- Istanbul Technical University, Turkey
- Karlstad University, Sweden
- K.U. Leuven, Belgium
- Leuphana University, Germany
- Newcastle University, UK
- Norwegian University of Science and Technology, NTNU, Norway
- Politecnico di Torino, Italy
- Tampere University of Technology, Finland
- TuTech Innovation, Germany
- Universitat Rovira i Virgili, Spain
- University of Applied Sciences Münster, Germany
- University of Cambridge, UK
- University of Paderborn, Germany
- Vienna University of Technology, Austria

Participant External Partners

Companies

- Accenture, Spain
- BP, UK
- DNV, Norway
- GM Powertrain Europe, Italy
- Nokia, Finland
- Omnisys Instruments, Sweden
- REPSOL, Spain
- Rolls-Royce, UK
- SIEMENS AG, Germany
- SMD (Soil Machine Dynamics Ltd.), UK
- STMicroelectronics, Italy
- Telecom Italia, Italy
- Thales Alenia Space, Italy
- Bernd Münstermann GmbH&Co. KG, Germany - SME
- E-power Technology ApS, Denmark – SME
- HJP Consulting, Germany – SME
- SHM Productions Ltd., UK - SME
- Metalogic, Belgium - Spin Off

Clusters

- Cluster of Steel and Engineering, Sweden
- COMPARE, Sweden
- Packaging Arena, Sweden
- The Paper Province, Sweden
- Torino Wireless Foundation, Italy

Public Authorities

- City of Tampere, Finland
- Council of Tampere Region, Finland
- Region Värmland, Sweden
- Swedish Ministry of Enterprise, Sweden
- Higher Education Funding Council for England, UK
- Knowledge Foundation, Sweden
- Tekes, Finland
- VINNOVA, Sweden

Research Institutes

- Academy of Sciences of the Czech Republic, Czech Republic
- Institute for Advanced Studies Berlin, Germany

Research and Technology Transfer Offices

- Service Research Centre, Sweden
- SHOK Fimecc Ltd, Sweden
- TuTech Innovation, Germany

Calendar of EUIMA-Collaborative Research Events

- **Workshop 1**
Date: 05-06 October 2010
Place: Leuphana University, Lüneburg, Germany
- **Workshop 2**
Date: 22-23 February 2011
Place: Tampere University of Technology, Tampere, Finland
- **Workshop 3**
Date: 12-13 May 2011
Place: Karlstad University, Karlstad, Sweden
- **Workshop 4**
Date: 08-09 November 2011
Place: Politecnico di Torino, Torino, Italy (EUA/CESAER Event)
- **Workshop 5**
Date: 05-06 December 2011
Place: The Møller Centre, University of Cambridge, UK
- **Special Session for EUA membership during EUA Annual Conference**
Date: 22 March 2012
Place: Warwick, United Kingdom
- **Workshop 6: Event for European Policy Makers**
Date: 10 May 2012
Place: Brussels

EUIMA-Collaborative Research Fields/Business Sectors of Collaborative Research Initiatives in the Case Studies

- Aerospace
- Automotive
- Nuclear energy
- Medicine
- New Materials
- ICT
- Marine
- Electrochemistry
- Service sector
- Paper sector
- Steel sector
- Consulting sector
- Human resources/Cultural aspects

etc.

III. Responsible Partnering Guidelines

In October 2009 EUA together with partner European associations representing industry and public research institutions (EIRMA, EARTO, and ProTon Europe) published revised version of guidelines.

- ❖ Voluntary code of conduct reflecting proven good practices in collaborative research
- ❖ Revised edition includes analyses of issues such as State Aid, European Community recommendations on IPR management and the results of the EUA DOC-CAREERS project on University-Industry partnerships in doctoral research
- ❖ European Commission has recognised these revised guidelines
- ❖ Next Revised Version: under discussion – new developments to include?



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IV. Towards New Indicators and Performance Measurement (I)

Traditional Indicators:

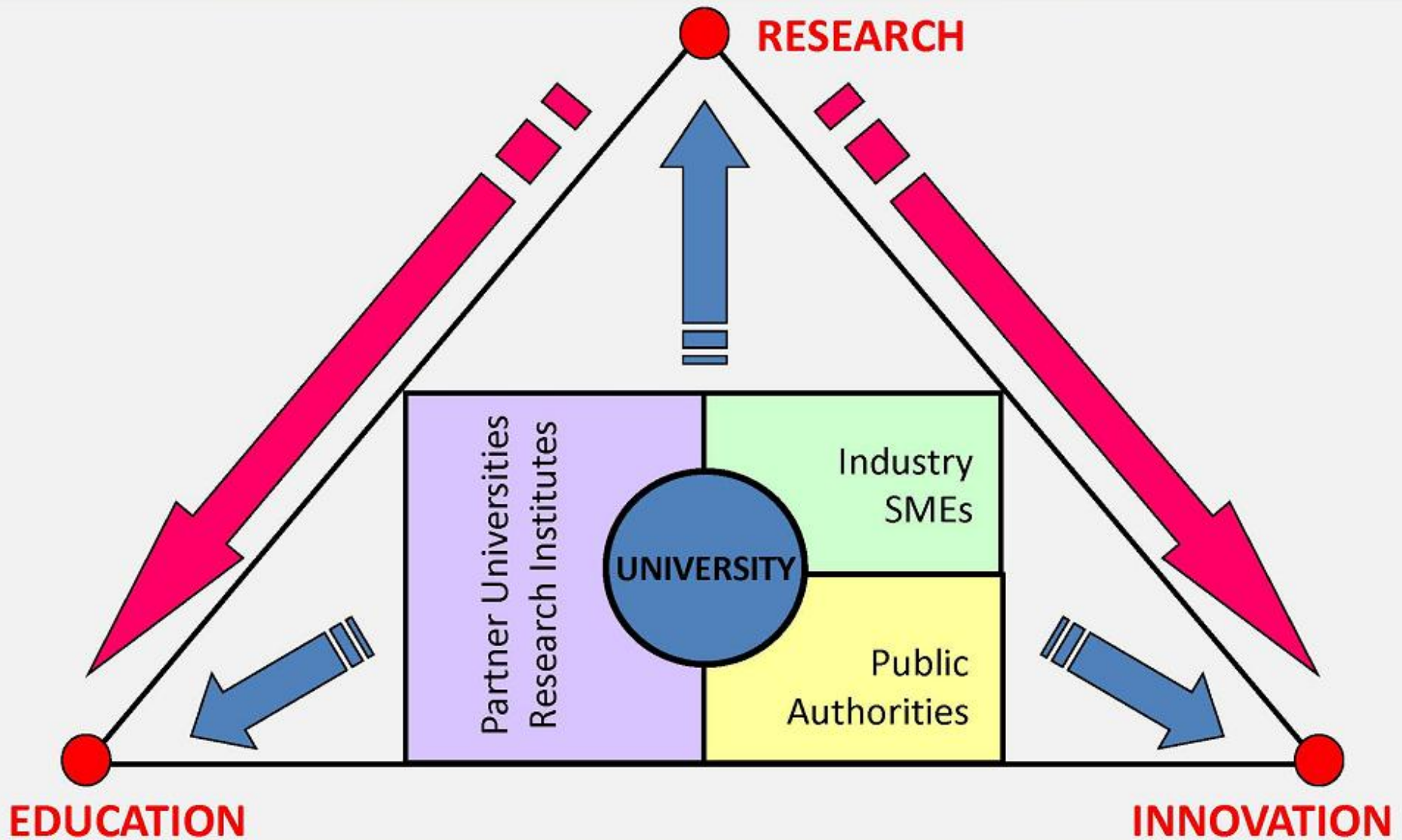
- Academic Publications & Citations
- Patents & licences
- Spin-Offs
- Ph.Ds defended
- Success/new opportunities for achieving further research funding
- Etc.....

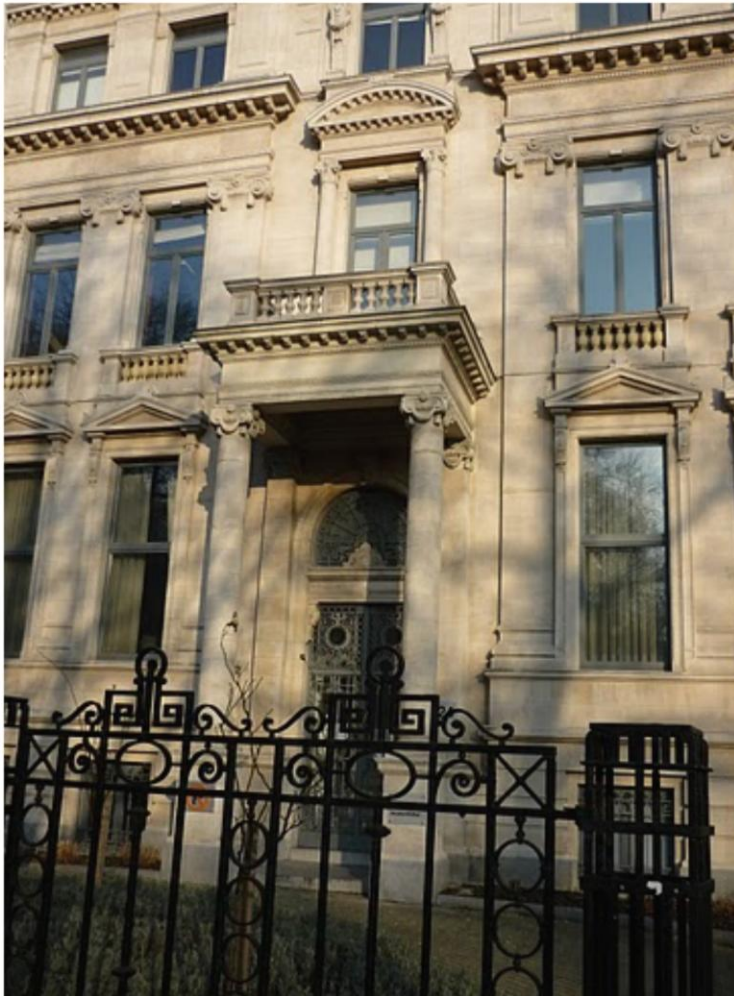
Towards New Indicators and Performance Measurement (II)

New/Additional Indicators:

- Sustainability of collaboration (through partnership)
- Assessment of partner satisfaction with collaboration
- Human resource development/capacity (partnership and financial management)
- Employability of young researchers (intersectoral)
- Appointments to external bodies (private and public)
- Etc...

Research: The Tip of the Triangle





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