



Future of CoE in FP7

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CoE - History

NAS2 call (FP5, 2002)

- ◆ **Launched by EC to stimulate the co-operation between ACC and MS**
- ◆ **FP5 EU - TP4a (Environment and Sustainable Development) - 18 CoE in Poland (for 27 accepted in ACC)**
- ◆ **Activities of CoE performed in years 2002 - 2005**

Now - termination of the EU support

CoE in FP6

- **No calls to establish new CoE**
- **Strengthening the co-operation / Building ERA:**
 - ◆ **New instruments were introduced:**
 - **Networks of Excellence**
 - **Integrated Projects**

No strengthening of co-operation between ACC / NMS and old EU15 was achieved !!!

Tentative Roadmap for FP7 (2007-2013)

2005

21.09

Specific Programme's proposal

28-29/11

Council - Orientation debate on SPs and Rules

2006

Feb/Mar

Council - Common position on EC FP

April

Common position on EC Rules

**May/June
EC**

EP - 2nd reading on EC FP; Opinion on SPs; 2nd reading on Rules (earliest)

July

Council - Adoption of the SPs

Oct

Commission - Adoption of Work programmes and necessary materials

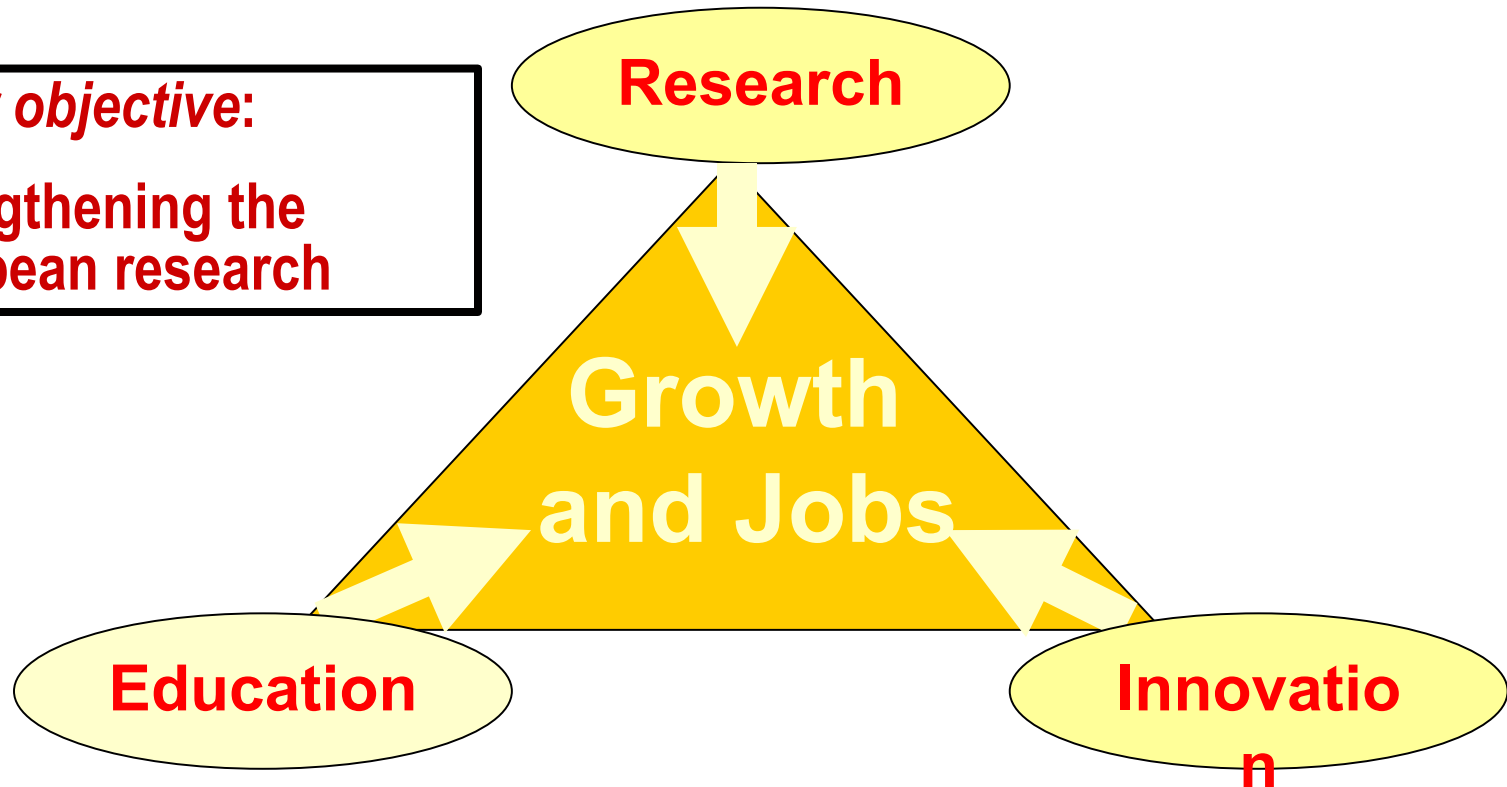
Nov

Commission - Publication of 1st calls

Building the ERA of knowledge for growth

Major objective:

Strengthening the
European research



Knowledge triangle - Lisbon strategy

FP7 (2007-2013)

More private investment to research

IDEA:

Creation of Centres of Excellence („poles of excellence”) of critical mass capable of attracting private investment

FP7: Organise EU research activities around six objectives

**1) Creation European centres of excellence
through collaboration between
laboratories**

FP7: Organise EU research activities around six objectives

4 Programmes:

1) **Creation European centres of excellence through collaboration between laboratories**

2) Launching European technological initiatives

3) Improving the coordination of national research programmes

Cooperation

4) Stimulating the creativity of basic research through competition between teams

Ideas (Frontier Research)

5) Making Europe more attractive to the best researchers

People (Human Potential)

6) Developing research infrastructure of European interest

Capacities
(Research Capacity)

COOPERATION

Creation European centres of excellence through collaboration between laboratories (*Universities, research centres, companies*)

- **Result in strengthening of excellence and networking**
- **Will have an impact on:**
 - ◆ **quality of research in Europe**
 - ◆ **dissemination of knowledge and results**
 - ◆ **learning of young researchers**
 - ◆ **ability of researchers to become involved in high-level projects**
- **Enable less powerful institutions to benefit from transnational cooperation**

COOPERATION

Creation European centres of excellence through collaboration between laboratories (*Universities, research centres, companies*)

- **The concept of „Centres of Excellence”:**
 - ◆ **CoE is a structure where RTD is performed at top-level world standard**
 - ◆ **as such - they should have a direct impact on the private sector and innovation**
 - ◆ **their visibility should be enhanced**

•Europe needs a larger number of sizeable and well-known centres of RTD excellence with an impact on the innovation system

COOPERATION

Creation European centres of excellence through collaboration between laboratories (*Universities, research centres, companies*)

***How will it be
implemented?***

COOPERATION

Includes three activities:

Collaborative research

Joint Technology Initiatives

**Coordination of non-Community research programmes
(ERA-NET; ERA-NET+; Article 169)**

International Cooperation

COOPERATION: Collaborative research

IDEA:

Create „ Centres of excellence / European poles”

THROUGH:

transnational collaboration

To this goal will contribute:

- ◆ **Networks of Excellence**
- ◆ **Collaborative projects; Coordination / support actions**
- ◆ **Structured „virtual” networks of existing RTD centres**
- ◆ **Likely no new calls for CoE ???**
- ◆ **Variety of new initiatives ???**

Message: strong need for good CoE

COOPERATION: Joint Technology Initiatives

AIM: Set up „Technology Platforms”

Bring together:

companies, research institutions, financial world,
regulatory authorities

- ◆ to define a common research agenda which should mobilise a critical mass of public and private resources

CoE could become a player in this cooperation

COOPERATION: Coordination of non-Community research programmes; (ERA-NET; ERA-NET+; Article 169)

Increasing resources allocated to the ERA-net activities:

- ♦ for the networking of national programmes
- ♦ extending the financial support they offer to research activities

CoE may influence this process

CoE in FP7

CoE will be a very important part of FP7 !!!

No calls to create CoE foreseen in FP7 ???

- **Keep already established cooperation !!!!! Use it as a base for joint action in all possible areas of activity**
- **Be active as a group of partners**
- **Prepare small and medium size projects**
- **Join as a group of partners to large proposals as a sub-group**
- **Try to use ERA-net for further common activities**
- **Be active as a group in the preparation of the specific WP (contribution to the creation of topics open in FP7 calls)**

Cooperation: Collaborative research

9 areas:

- 1. Health**
- 2. Food, Agriculture and Biotechnology**
- 3. Information and Communication Technologies**
- 4. Nanosciences, Nanotechnologies, Materials and new Production Technologies**
- 5. Energy**
- 6. Environment (including Climate Change)**
- 7. Transport (inc. Aeronautics)**
- 8. Socio-economic Sciences and the Humanities**
- 9. Security and Space**

THEMES

6. Environment (inc. climate change)

Climate change, pollution and risks

Sustainable Management of Resources

Environmental Technologies

Earth observation and assessment tools

1. Climate change, pollution and risks

- ***Pressures on environment and climate***
 - ◆ functioning of climate, pollution aspect
 - ◆ atmospheric research
 - ◆ impact on ecosystems

- ***Environment and health***
 - ◆ environmental risk factor and human health

- ***Natural hazards***
 - ◆ improve knowledge and methods for the assessment of hazards, vulnerability and risks

2. Sustainable Management of resources

- ***Conservation and sustainable management of natural and man-made resources***
 - ◆ research targeted to improve the knowledge basis and develop advanced models and tools needed for the sustainable management of resources
 - ◆ study incl. ecosystems, forests, land degradation,
- ***Evolution of marine environments***
 - ◆ research to improve our understanding of the impacts of human activities on the ocean and seas and on the resources on the marine environment

3. Environmental Technologies

- ***Environmental technologies for the sustainable management and conservation of the natural and man-made environment***
 - ◆ new / improved technologies to reduce the environmental impact of human activities
 - ◆ incl. technologies for managing resources or treating pollution more efficiently (in relation to water, soil, air, sea, waste)
 - ◆ also for conservation / restoration of cultural heritage

3. Environmental Technologies ...

- ***Technology assessment, verification and testing***
 - ◆ **research will focus on the risk and performance assessment of technologies**
 - ◆ **focus on long-term opportunities, market potential and socio-economical aspects of environmental technologies**
 - ◆ **chemical risk assessment**
 - ◆ **testing strategies for minimising animal testing**

4. *Earth observation and assessment tools*

- ***Earth observation***

- ◆ development of the Global Earth Observation System of Systems
- ◆ focus on natural hazards, climate change, weather, ecosystems, natural resources, water, land use, environment and health, biodiversity

- ***Assessment tools for sustainable development***

- ◆ assess the environmental and research policy contribution to competitiveness and sustainable development

Information available

FP7:

<http://www.cordis.lu/fp7/cooperation.htm>

<http://www.cordis.lu/fp7/objectives.htm>

<http://www.cordis.lu/fp7/>

http://europa.eu.int/comm/research/future/index_en.cfm

Centres of Excellence:

<http://europa.eu.int/comm/research/era/pdf/centres.pdf>

Be active together !!!



**Thank you
for your attention !!!**