

# **International S&T Cooperation in FP 7**

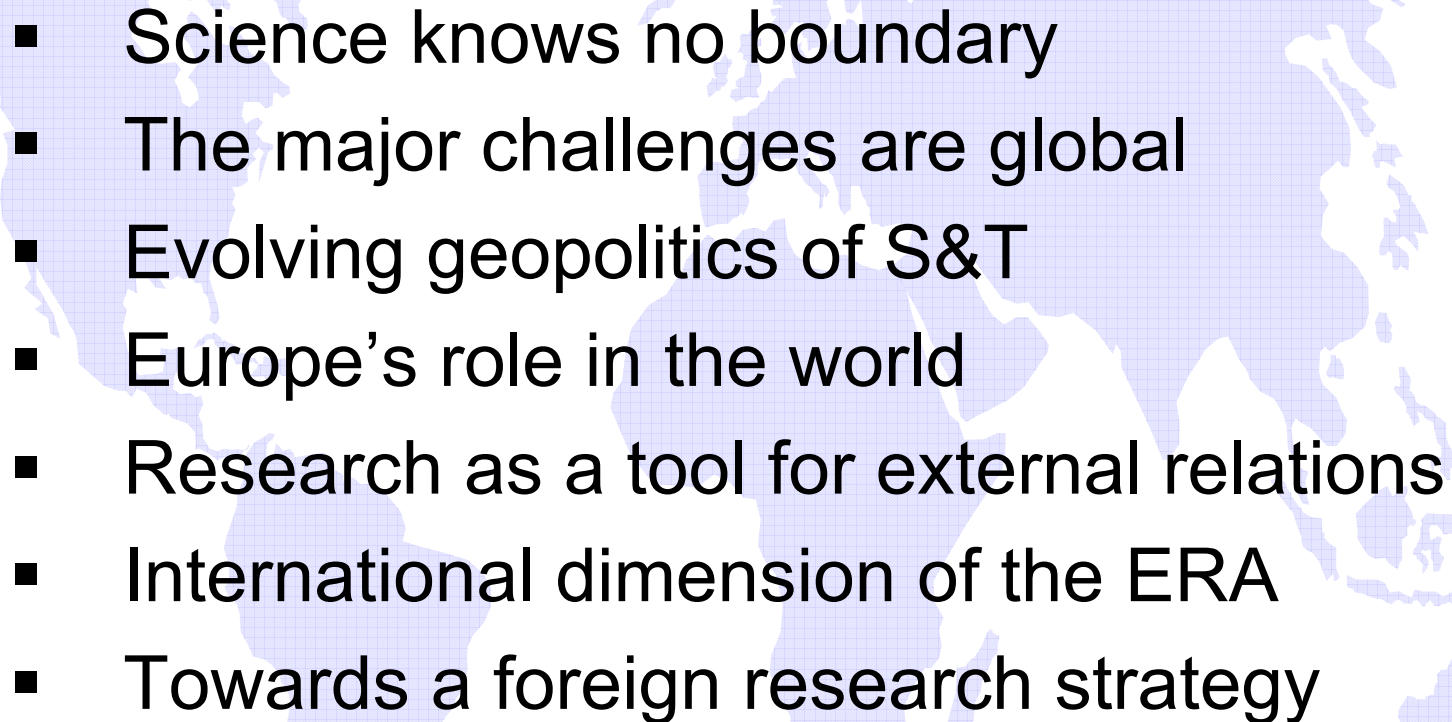
## **The EU Research Framework Programme 2007 – 2013**

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**European Commission**

**Directorate General for Research – International S&T Cooperation**

# Europe > S&T < the world

- 
- Science knows no boundary
  - The major challenges are global
  - Evolving geopolitics of S&T
  - Europe's role in the world
  - Research as a tool for external relations
  - International dimension of the ERA
  - Towards a foreign research strategy

# Why international cooperation?

- 
- Advancing science and technology
  - Enhancing European competitiveness
  - Attracting researchers and resources
  - Addressing global challenges
  - Solving common problems
  - Underpinning the EU external relations

# EU research: the story so far

- 
- 1952:** ECSC treaty; first projects started March 1955
  - 1957:** Euratom treaty; Joint Research Centre set up
  - 1983:** ESPRIT programme
  - 1984:** **First** Framework Programme (1984-1987)
  - 1987:** 'Single European Act' – science becomes a Community responsibility;  
**Second** Framework Programme (1987-1991)
  - 1990:** **Third** Framework Programme (1990-1994)
  - 1993:** Treaty on European Union; role of RTD in the enlarged EU
  - 1994:** **Fourth** Framework Programme (1994-1998)
  - 1998:** **Fifth** Framework Programme (1998-2002)
  - 2000:** **European Research Area**
  - 2002:** **Sixth** Framework Programme (2002-2006)
  - 2007:** The **Seventh** Framework Programme (2007-2013; 2007-2011 for Euratom)
  - 2007:** European Research Area Green Paper COM(2007) 161, 04.04.07

# Framework Programme for R&D = Financial Instrument EU R&D Strategy

- A defined budget for a defined number of years and a set of priorities for Scientific Research
- A set of Strategies and tools to implement them
- 5% European R&D budget

# FP Principles

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- Competition
  - Scientific Excellence
  
  - Work Programmes
  - Calls for Proposals
  - Submission
  - Independent Evaluation
  - Selection

# What is new in FP7?

- Duration: 7 years (except EURATOM: 5 years)
- Budget: over € 53 billion
- New Structure: 4 Specific Programmes:  
Cooperation, Ideas, People, Capacities  
(plus EURATOM and Joint Research Center)
- New Instruments: European Research Council (ERC) and Joint Technology Initiatives (JTI)
- **Integration of the international dimension into all Specific Programmes**

# FP7 – Specific Programmes

***Cooperation* – Collaborative research**

***Ideas* – Frontier Research**

***People* – Human Potential**

***Capacities* – Research Capacity**

+

JRC (non-nuclear)

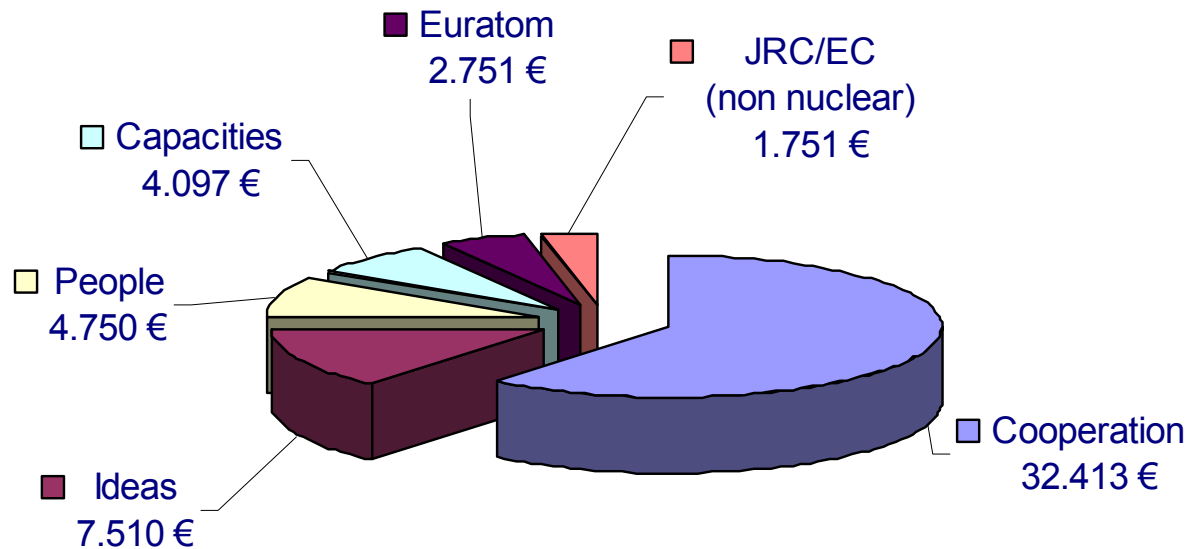
JRC (nuclear)

Euratom



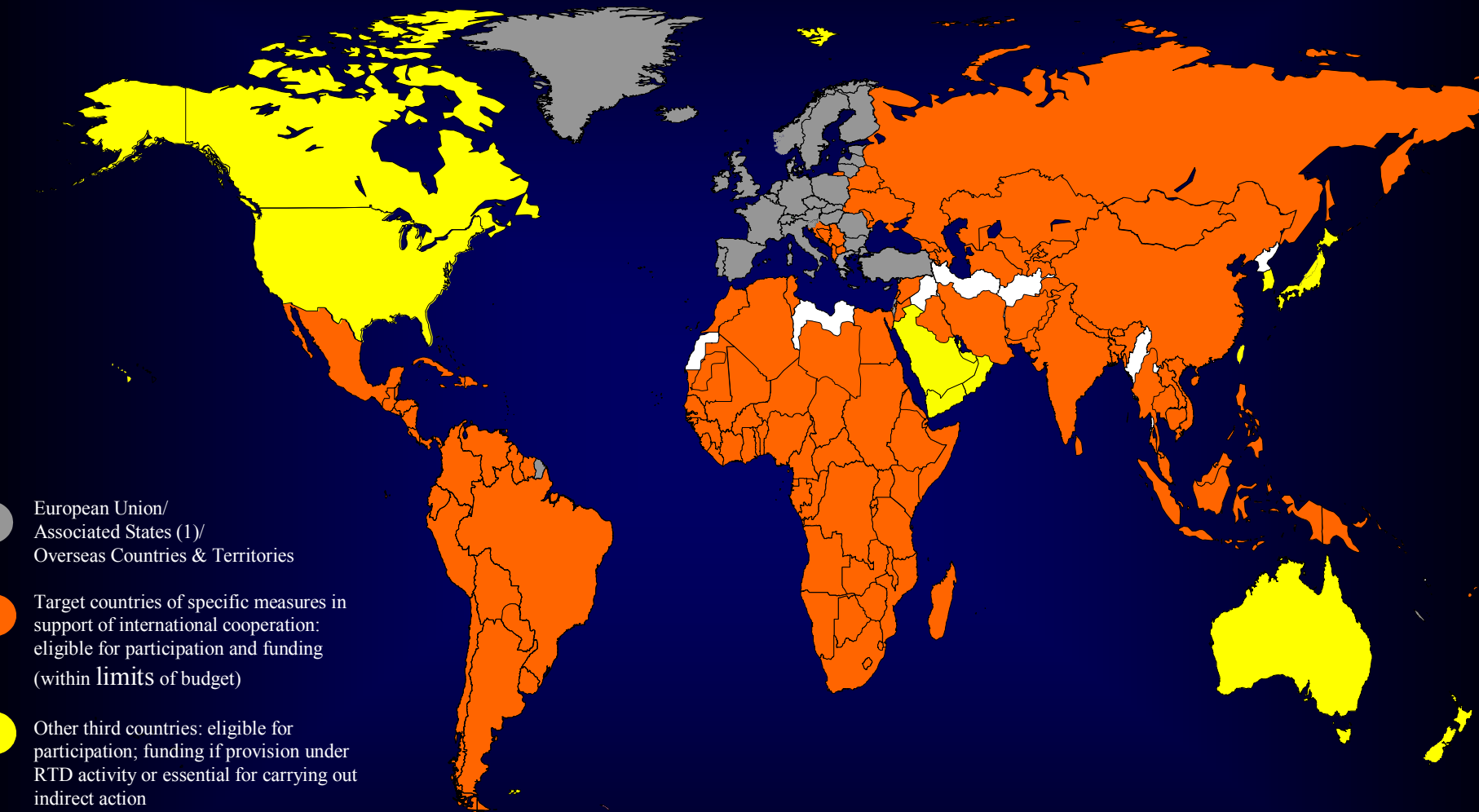
# FP7: 50.521 EC (2007 – 2013) + 2.751 EURATOM (2007 – 2011)

The indicative breakdown (€ million) of FP7



# 7th Framework Programme

## Participation by legal entities from third countries



European Union/  
Associated States (1)/  
Overseas Countries & Territories

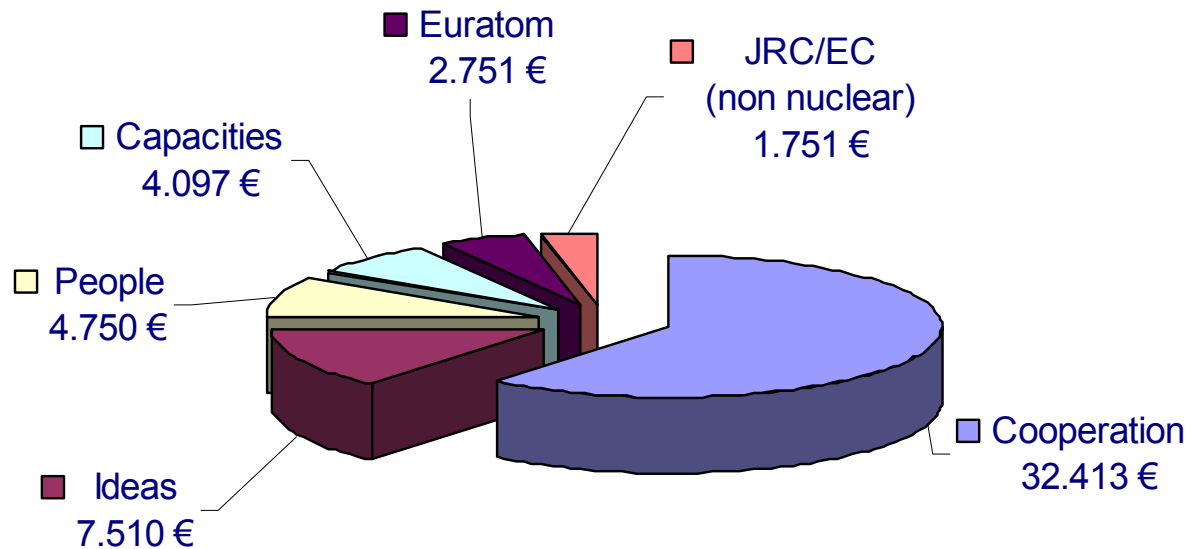
Target countries of specific measures in  
support of international cooperation:  
eligible for participation and funding  
(within limits of budget)

Other third countries: eligible for  
participation; funding if provision under  
RTD activity or essential for carrying out  
indirect action

Currently no cooperation

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# Cooperation Themes and budget

<b>I. Cooperation</b>	<b>Budget (€ million, current prices)</b>
<b>1. Health</b>	<b>5 984</b>
<b>2. Food, agriculture and biotechnology</b>	<b>1 935</b>
<b>3. Information and communication technologies</b>	<b>9 110</b>
<b>4. Nanotechnologies, materials and production</b>	<b>3 467</b>
<b>5. Energy</b>	<b>2 265</b>
<b>6. Environment</b>	<b>1 886</b>
<b>7. Transport</b>	<b>4 180</b>
<b>8. Socio-economic research</b>	<b>607</b>
<b>9. Security and space</b>	<b>2 858</b>
<b>Total</b>	<b>32 292*</b>

\* Not including non -nuclear activities of the Joint Research Centre: €1751 million

# Cooperation - Financial Instruments

1. **Collaborative Projects:**
2. **European Technology Platforms and Joint Technology Initiatives**
3. **Networks of Excellence:**
4. **Coordination and Support Actions:**  
Networking, exchanges, studies, conferences, etc.
5. **Also SMEs, Regions, Infrastructures.**

# International cooperation in COOPERATION SP

## 1. All themes **open** to third countries

- Minimum **3 different** EU Member State (MS) or Associated Countries (AC)
- Beyond this minimum, all 3<sup>rd</sup> countries can participate
- ICPC would **generally** be funded
- Industrialised countries funded only if indispensable for the project
- Targeted calls possible (Opening-up Plus)

# International cooperation in COOPERATION SP (cont.)

## 2. Specific International Cooperation Actions (SICA)

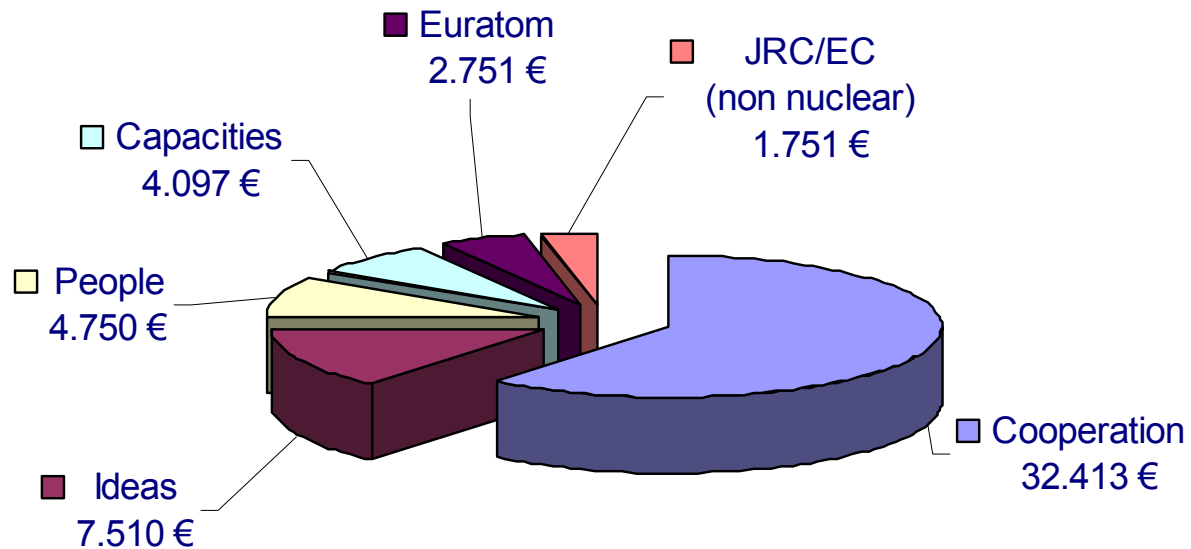
- Minimum **4 participants** from different countries: 2 ICPC + MS or AC
- ICPC participants get funding

## 3. Coordinated Calls

- Research projects with balanced participation, co-funded by partner country

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## **Boost Excellence in European "Frontier Research"**

- by investing in the best researchers and ideas
- through competition at European level
- on the basis of scientific excellence as the sole criterion
- raising incentives towards quality and aspirations of individual researchers

# ERC Grant schemes

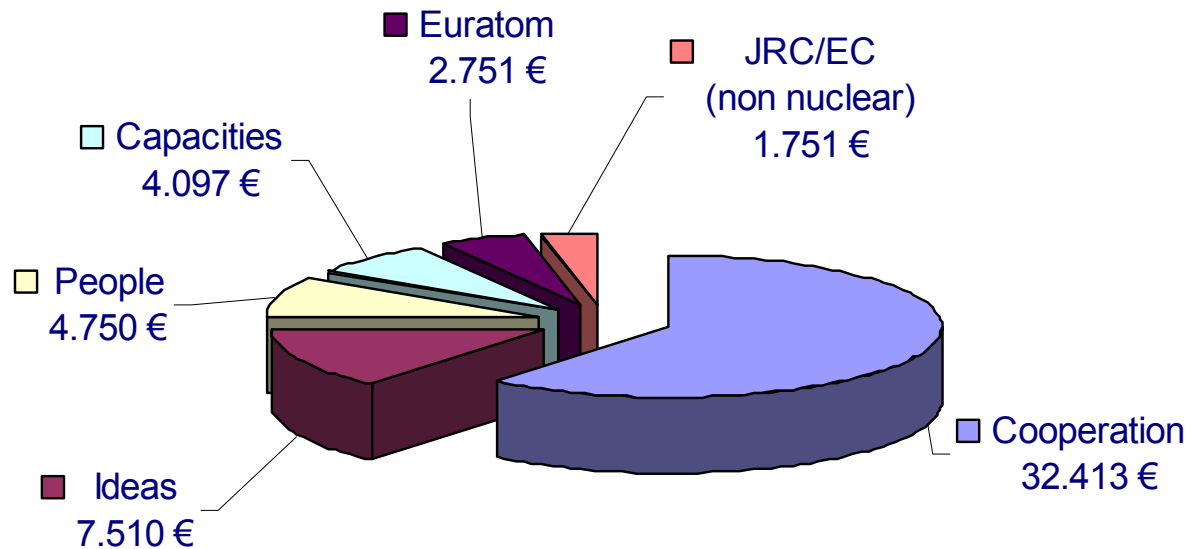
Who can apply ?

## ➤ Individual Research Teams

- headed by a single “**Principal Investigator**” (team leader)
  - of any nationality
  - if necessary, including additional team members.
- The “Principal Investigator” has the freedom to choose the **research topic** and the power to assemble his/her **research team** meeting the needs of the project.
- Teams can be of **national or trans-national** character.

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# People – Fellowships

## **Rationale of the 'People' Programme**

*'Abundant and **highly trained qualified researchers** are a necessary condition to advance science and to **underpin innovation**, but also an important factor to attract and sustain investments in research by public and private entities. Against the background of growing competition at world level, the development of an **open European labour market for researchers** free from all forms of discrimination and the diversification of **skills and career paths** of researchers are crucial to support a beneficial circulation of researchers and their knowledge, both **within Europe and in a global setting**. Special measures to encourage **young researchers** and **support early stages of scientific career**, as well as measures to **reduce the 'brain drain'**, such as reintegration grants, will be introduced.'*

# People – Fellowships cont.

## To date:

- **Very successful programme**
- **The volume has been constantly increasing**
- **Approx. 25.000 researchers benefited**

## With FP7

- **Increase from FP6: on average 50 % per year**
- **Budget of € 4,75 billion, i.e.**
  - **€430 million in 2007**
  - **to €900 million in 2013**
- **Estimated that 70.000 researchers will benefit.**

# People – Marie Curie Actions

## **1. Initial training:**

- *Networks for Early stage researchers*

## **2. Life long training and career development:**

- *Intra European Fellowships*
- *Co-funding of national programmes*
- *European Reintegration Grants*

## **3. Industry dimension:**

- *Industry-academia partnership and pathways*

## **4. International dimension:**

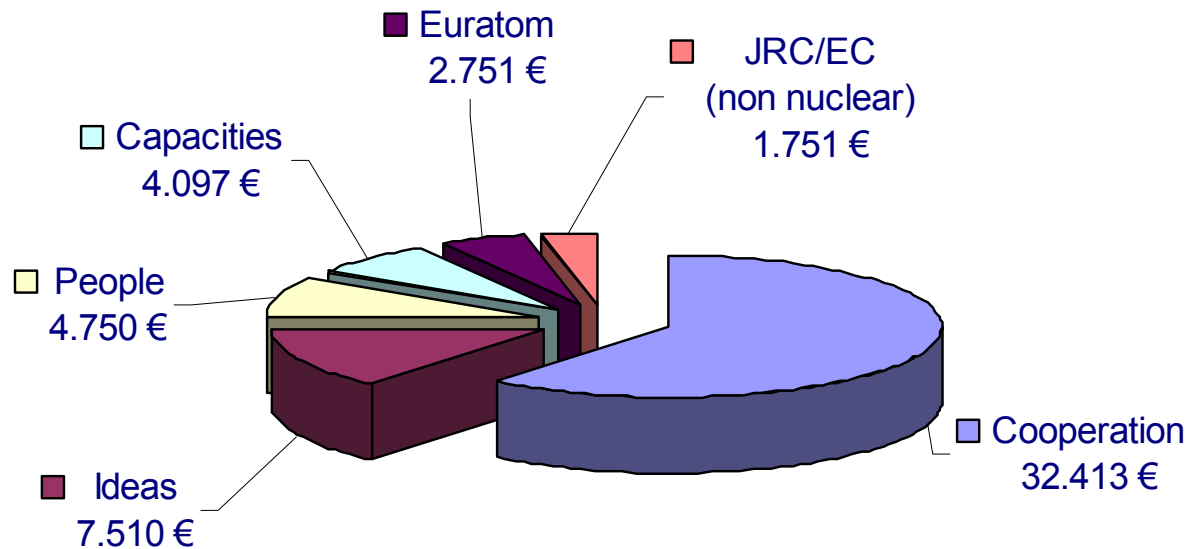
- *Outgoing fellowships*
- *Incoming fellowships*
- *International reintegration grants*
- *International staff Exchange Programmes*
- *scientific diasporas (ERALINK)*

## **5. Specific actions**

*Such as: 'Researchers' Night'; Marie Curie Awards, ERA-More; networking of NCPs*

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# International Cooperation in CAPACITIES SP

## Policy Dialogue

Bi-regional Coordination of S&T Cooperation (INCO-NET)

## S&T Cooperation Partnerships

(Bilateral S&T Agreements)

## Coordination of National Policies & Activities

(ERA-NET)

**COOPERATION**





# Conclusions

**FP7 important!**

- **Contacts and Networks**
- **Knowledge Sharing and Development**
- **Training**
- **Overall Socio-Economic Benefits for the EU and it's Partners**

## Further information

**Seventh Framework Programme:**

<http://cordis.europa.eu/fp7>

**Newsletter *Europe4Researchers*:**

[http://ec.europa.eu/eracareers/index\\_en.cfm?l1=16](http://ec.europa.eu/eracareers/index_en.cfm?l1=16)

**European Researchers - Mobility Portal**

[http://ec.europa.eu/eracareers/index\\_en.cfm](http://ec.europa.eu/eracareers/index_en.cfm)

**EU Research:**

[http://ec.europa.eu/research/index\\_en.cfm](http://ec.europa.eu/research/index_en.cfm)

**EU Education:**

[http://ec.europa.eu/education/index\\_en.html](http://ec.europa.eu/education/index_en.html)

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A light blue world map with a grid pattern, serving as a background for the slide. A thick, curved magenta line is visible in the top-left corner.

**Thank you very much for your attention**