


# Cooperation

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## Cooperation - Nine Themes


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 (including Aeronautics)
8	Socio-Economic Sciences and the Humanities
9	Security and Space

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### FP6: Thematic Priorities

➔ **FP7: Themes (Topics)**

1	Genomics and Biotechnology for Health	1	Health
2	Information Society Technologies	2	Food, Agriculture and Biotechnology
3	Nanotechnologies, Materials, Production processes and devices	3	Information and Communication Technologies
4	Aeronautics and Space	4	Nanosciences, Nanotechnologies, Materials and new Production Technologies
5	Food Quality and Safety	5	Energy
6	Sustainable Development, Global Change and Ecosystems	6	Environment (including Climate Change)
7	Citizens and Governance in a Knowledge Based Society	7	Aeronautics
		8	Space
		9	Security and Space

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## Cooperation - Topic 1 Health

- **Biotechnology, generic tools and technologies for human health**
- **Translating research for human health:**
  - Biological data and processes
  - Brain research
  - Infectious diseases
  - Major diseases
- **Optimising the delivery of healthcare to European citizens**

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## Cooperation - Topic 2 Food, Agriculture and Biotechnology

- Sustainable production and management of biological resources from land, forest and aquatic environments
- „Fork to farm“: Food, health and well being
- Life sciences and biotechnology for sustainable non-food products and processes

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## Cooperation – Topic 3 Information and Communication Technologies

- ICT technology pillars
- Integration of technologies
- Applications research
- Future and emerging technologies

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### Cooperation – Topic 4 Nanosciences, Nanotechnologies, Materials and new Production Technologies

- Nanosciences and nanotechnologies
- Materials
- New production
- Integration of technologies for industrial applications

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### Cooperation – Topic 5 Energy

- Hydrogen and fuel cells
- Renewable electricity generation
- Renewable fuel production
- Renewables for heating and cooling
- CO2 capture and storage technologies for zero emission power generation
- Clean coal technologies
- Smart energy networks
- Energy efficiency and savings
- Knowledge for energy policy making

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### Cooperation – Topic 6 Environment (incl. Climate Change)

- Climate change, pollution and risks
- Sustainable management of resources
- Environmental technologies
- Earth observation and assessment tools

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### Cooperation – Topic 7 Transport (incl. Aeronautics)

- Aeronautics and air transport
- Surface transport (rail, road and waterborne)
- Support to the European global satellite navigation system (Galileo)

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### Cooperation – Topic 8 Socio-Economic Sciences and the Humanities

- Growth, employment and competitiveness in a knowledge society
- Combining economic, social and environmental objectives in a European perspective
- Major trends in society and their implications
- Europe in the world
- The citizen in the European Union
- Socio-economic and scientific indicators
- Foresight activities

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### Cooperation – Topic 9 Security and Space

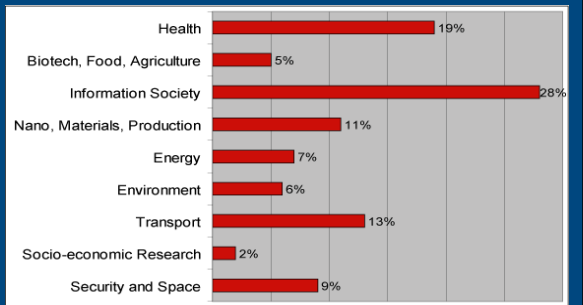
- Protection against terrorism and crime
- Security of infrastructures and utilities
- Border security
- Restoring security in case of crisis
- Security systems integration and interoperability
- Security and society
- Security research coordination and structuring
- Space-based applications at the service of the European Society
- Exploration of space
- RTD for strengthening space foundations

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## The Commission's proposal 9 Topics: Budget



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## Cooperation Activity Types

- **Collaborative research**  
(Collaborative projects; Networks of Excellence; Coordination/support actions)
- **Joint Technology Initiatives**
- **Coordination of non-Community research programmes**  
(ERA-NET; ERA-NET PLUS; Article 169)
- **International Cooperation**
- **Emerging needs and unforeseen policy needs**

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## Cooperation Activity Type: Collaborative Research

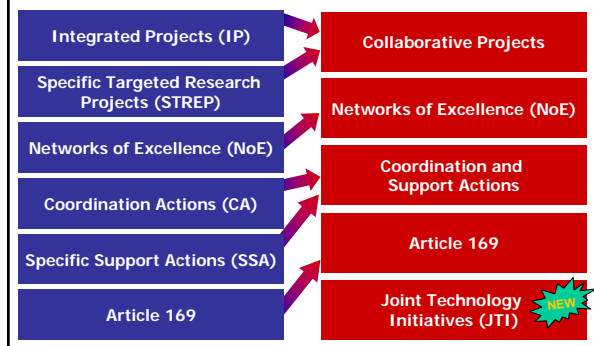
- **Objective**  
establishment of excellent research projects and networks in the major fields of advancement of knowledge (incl. active participation of industry)
- **Goal**  
attracting researchers and investments from Europe and the entire world
  - thus* - strengthening the EU industrial and technological base
  - supporting EU policies
- **Funding Schemes**
  - Collaborative Projects (IP/STREP)
  - Networks of Excellence (NoE)
  - Coordination / Support Actions (CA/SSA)

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## Instruments

FP6 → FP7



## Cooperation Activity Type: Joint Technology Initiatives

- **Goal: setting-up of a long-term public private partnership**
- **Initiatives**
  - mainly result from the work of European Technology Platforms
  - cover one or a small number of selected aspects of research in their field
  - will combine private sector investment and national and European public funding
  - will be decided on the basis of separate proposals (e.g. on the basis of Art. 171)

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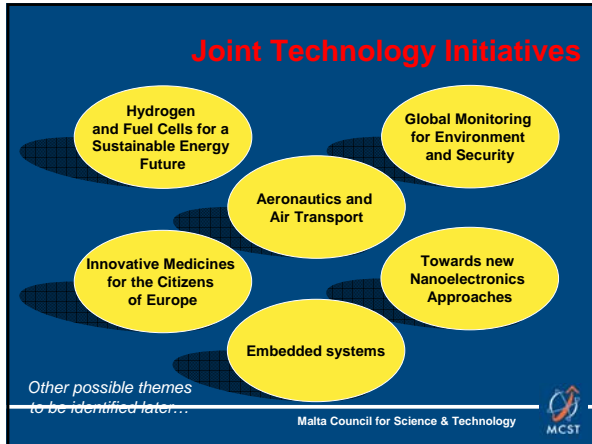


## Cooperation Activity Type: Joint Technology Initiatives

- **Criteria for identification include:**
  - added value of European-level intervention;
  - the degree and clarity of definition of the objective to be pursued;
  - strength of the financial and resource commitment from industry;
  - scale of the impact on industrial competitiveness and growth;
  - importance of the contribution to broader policy objectives;
  - capacity to attract additional national support and leverage current or future industry funding;
  - inability of existing instruments to achieve the objective

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## Cooperation

### Activity Type: Coordination of non-Community research programmes

- **ERA-Net Scheme: ERA-Net / ERA-Net PLUS**
  - Providing a framework for actors implementing public research programmes to step up the coordination of their activities. This will include support for new ERA-NETs as well as for the broadening and deepening of the scope of existing ERA-NETs.
  - Providing additional EU financial support to those participants that create a common fund for the purpose of joint calls for proposals between their respective national and regional programmes ("ERA-NET PLUS").
- **Art. 169**
  - Participation of the Community in national research programmes jointly implemented on the basis of Article 169: European cooperation on a large scale in "variable geometry" between Member States sharing common needs and/or interests.

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## Cooperation

### Activity Type: International Cooperation

International Science and Technology policy with two interdependent objectives:

1. **Supporting and promoting European competitiveness through strategic research partnerships with third countries including highly industrialised and emerging economies in science and technology by engaging the best third country scientists to work in and with Europe.**
2. **Addressing specific problems that third countries face or that have a global character, on the basis of mutual interest and mutual benefit.**

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## Cooperation

### Activity Types: "Emerging" needs and "Unforeseen policy needs"

- **Emerging Needs**

Through specific support for spontaneous research proposals aiming at identifying or further exploring, in a given field and/or at the intersection of several disciplines, new scientific and technological opportunities, in particular linked with a potential for significant breakthroughs
- **Unforeseen policy needs**

Providing the possibility to respond in a flexible way to new policy needs that arise during the course of the Framework Programme, such as unforeseen developments or events requiring a quick reaction like, the new epidemics, emerging concerns in food safety or natural disaster response.

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# Thank you

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