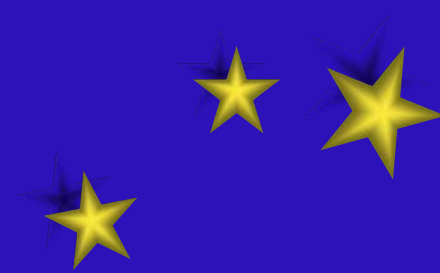
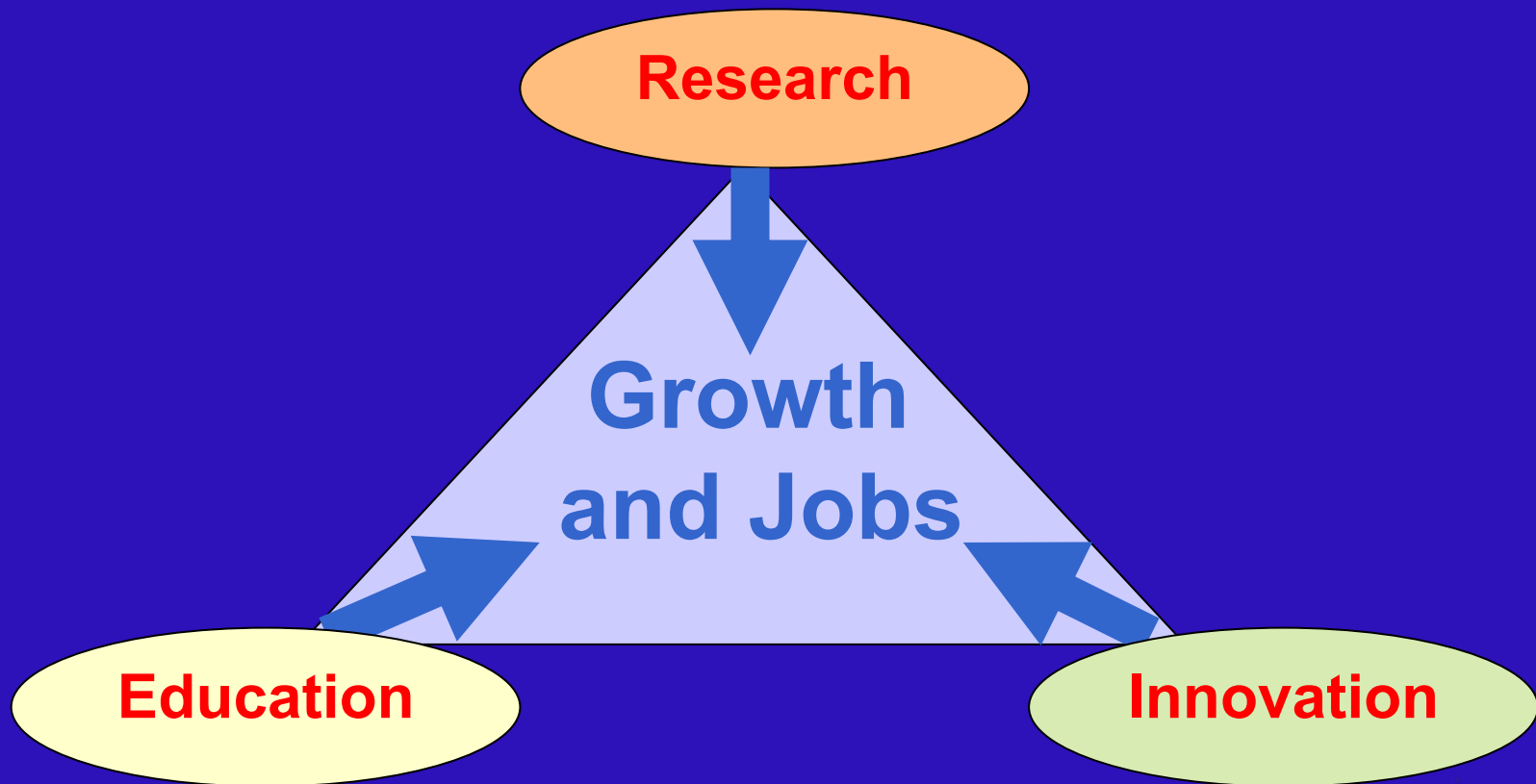


Introduction to FP7

Vlado Bužek
16.06.2007



Lisbon strategy




S&T contributes to the Lisbon objectives: economic growth, employment creation, environmental protection, social challenges: fight poverty, improve human health and quality of life (GSM, remote working, safe roads, etc.)



R&D European weaknesses

	EU-25	US	Japan
R&D intensity (% of GDP) ⁽³⁾	1.97	2.59	3.12
Share of R&D financed by industry (%) ⁽²⁾	55.9	63.1	73.9
Researchers per thousand labour force (FTE) ⁽³⁾	5.5	9.0	9.7
Share of world scientific publications (%) ⁽³⁾	38.3	31.1	9.6
Scientific publications per million population ⁽³⁾	639	809	569
Share of world triadic patents (%) ⁽¹⁾	31.5	34.3	26.9
Triadic patents per million population ⁽¹⁾	30.5	53.1	92.6
High-tech exports as a share of total manufacturing exports (%) ⁽³⁾	19.7	28.5	26.5
Share of world high-tech exports (%) ⁽²⁾	16.7	20.0	10.6



Note: ⁽¹⁾ 2000 data ⁽²⁾ 2002 data ⁽³⁾ 2003 data



Research at European level


Pooling and leveraging resources

- Resources are pooled to achieve critical mass
- Leverage effect on private investments
- Interoperability and complementarity of big science

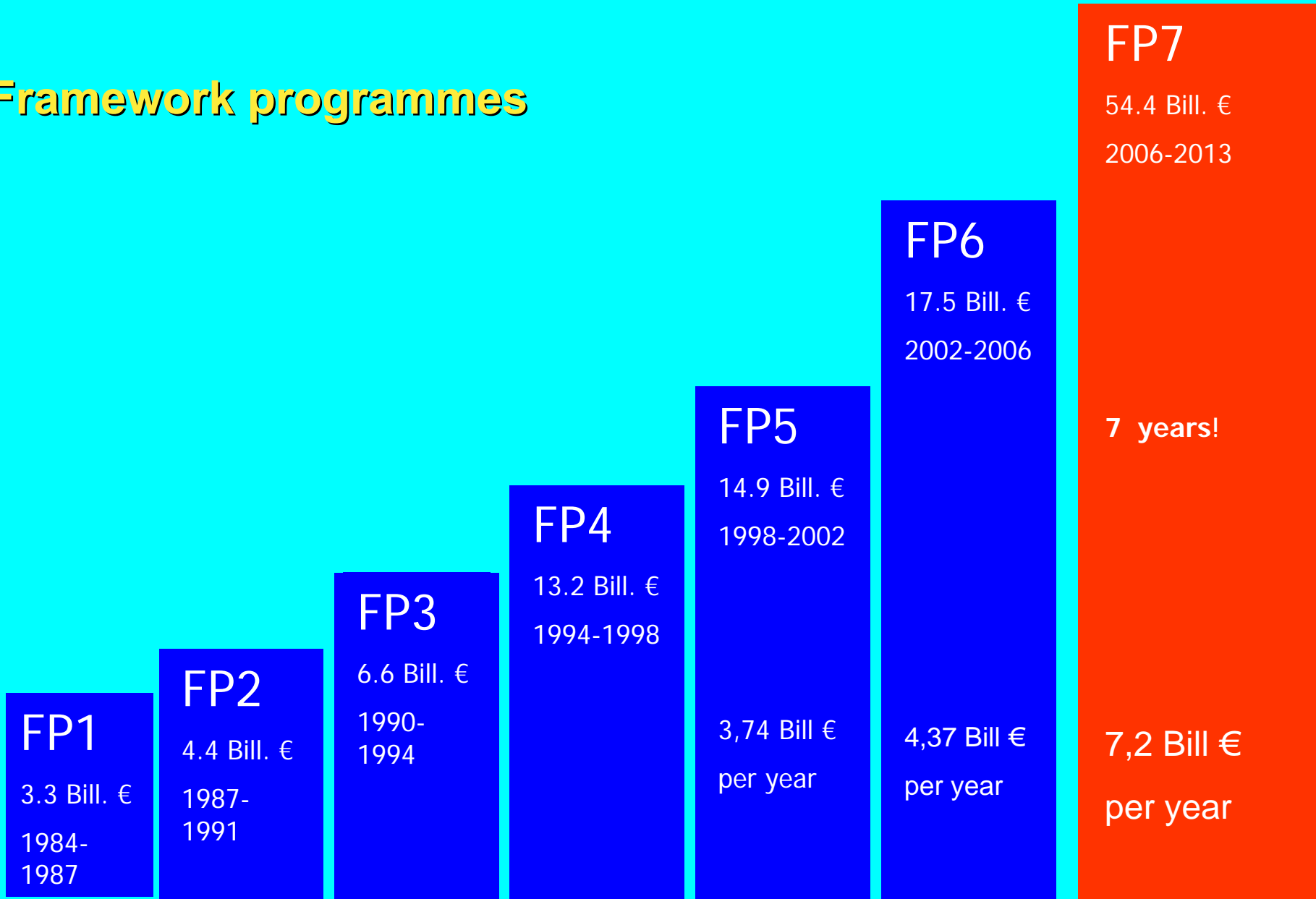
Fostering human capacity and excellence in S&T

- Stimulate training and international mobility of researchers
- Improve S&T capabilities
- Stimulate competition in research

Better integration of European R&D

- Create scientific base for pan-European policy challenges
 - Encourage coordination of national policies
 - Effective comparative research at EU-level
 - Efficient dissemination of research results
- 

Framework programmes





Guiding Principles of the FPs

- **financing of research projects between partners from different European countries**
- **cost-sharing between EU and project participants**
- **multi-disciplinary projects**
- **project selection based on competitive calls and peer review**
- **additional evaluation criteria such as training, sustainable development, gender equality**



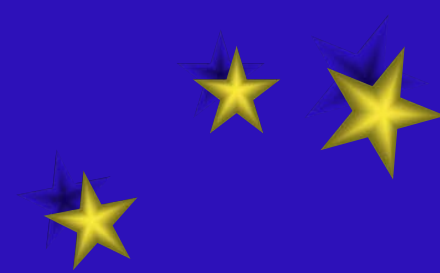


FP7 – The Commission's proposal

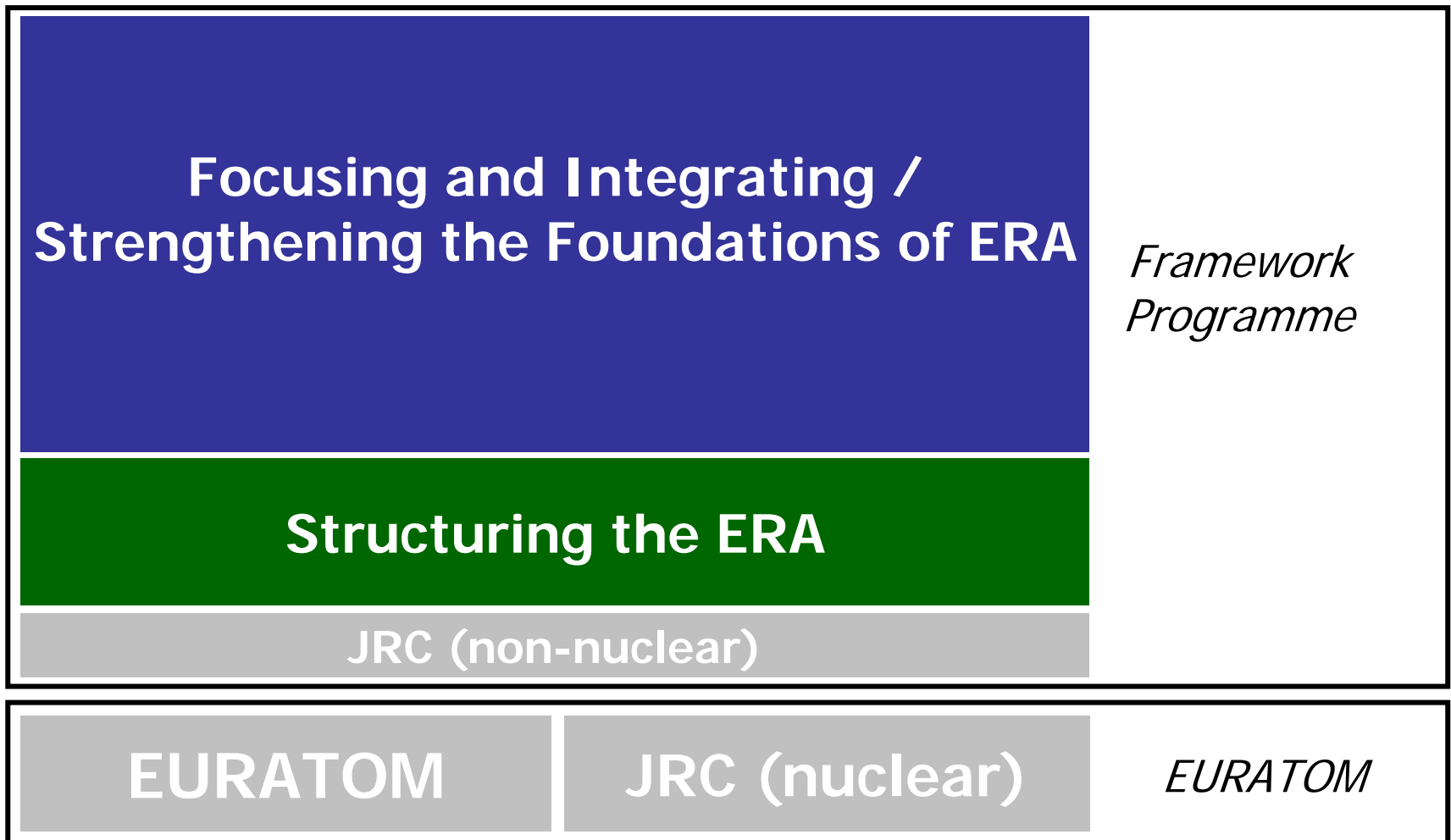
6 April 2005

**The European Commission publishes it's official
proposal for the 7th European Research Framework
Programme**

**continuity
simplification
significant budget raise
to cover seven years (2007-2013)**



FP6 (Specific Programmes)



FP6 (Specific Programmes)

Focusing and Integrating

Thematic Priorities

1 2 3 4 5 6 7

Specific Actions

Policy-oriented Research

NEST

SMEs

International Cooperation

Strengthening the Foundations of ERA

Coordination of RTD-Activities

Coherent Development of RTD-Policy

Structuring the ERA

Innovation

**Human
Resources**

Infrastructures

**Science
and Society**

Thematic Priorities

1 2 3 4 5 6 7

Coordination of RTD-Activities

Specific Actions

Policy-oriented Research

NEST

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International Cooperation

Coherent Development of RTD-Policy

Innovation

Human
Resources

Infrastructures

Science
and Society

Cooperation

1 2 3 4 5 6 7 8 9

People

Marie-Curie Measures

Ideas

European Research Council
(ERC)

Structure of FP6

Capacities

Infra-
structures

SMEs

Regions of
Knowledge

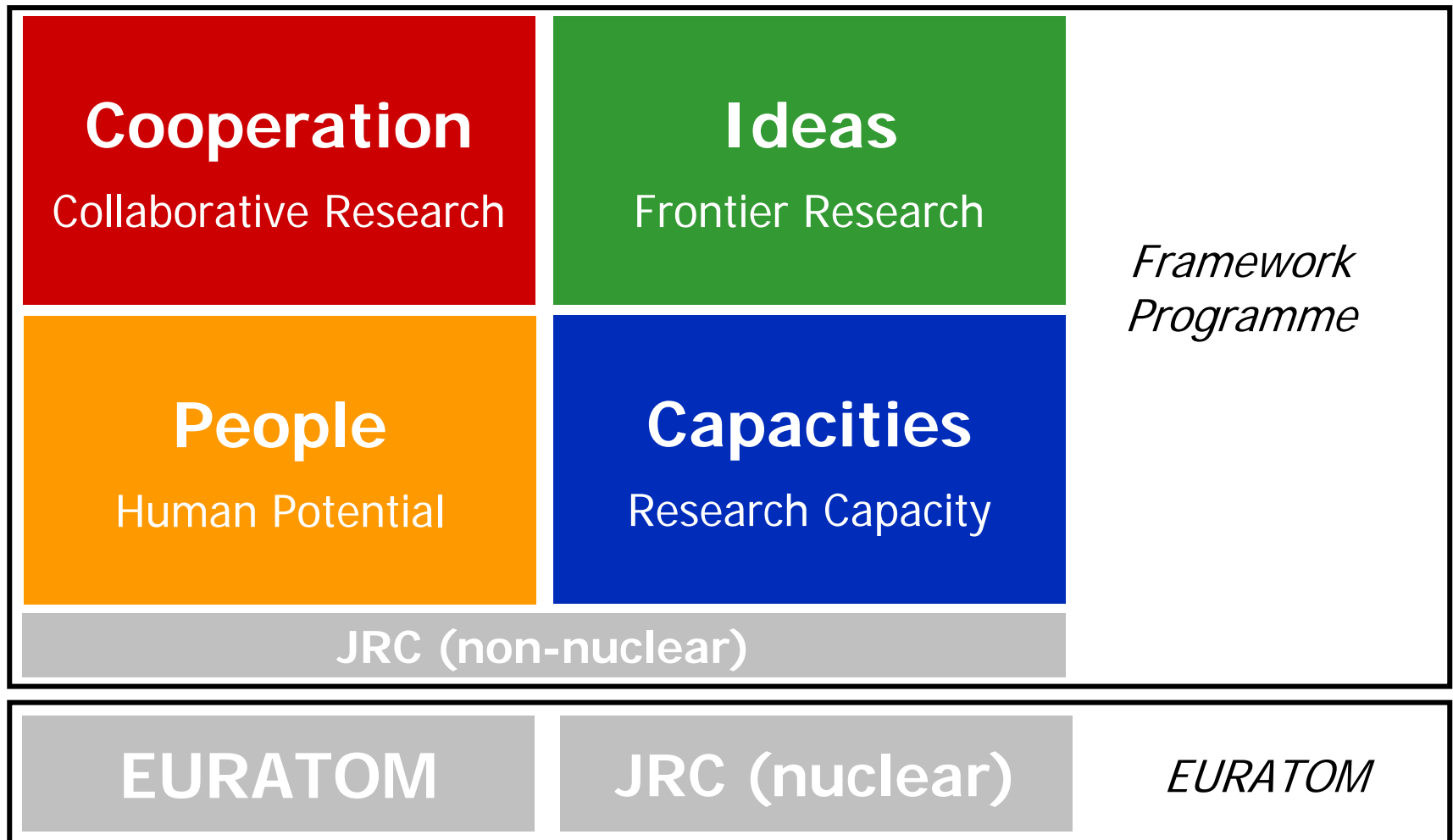
Research
Potential

Science
in Society

INCO

Development of Research Policies

The Commission's proposal Structure (Specific Programmes)



Proposal for FP7 Specific Programmes (1-4)

Cooperation

Themes (Topics)

1 2 3 4 5 6 7 8 9

Ideas

**European Research Council
(ERC)**

People

Marie-Curie Measures

Initial
Training

Life-
long
Training

Industry-
academia

Inter-
national

Specific
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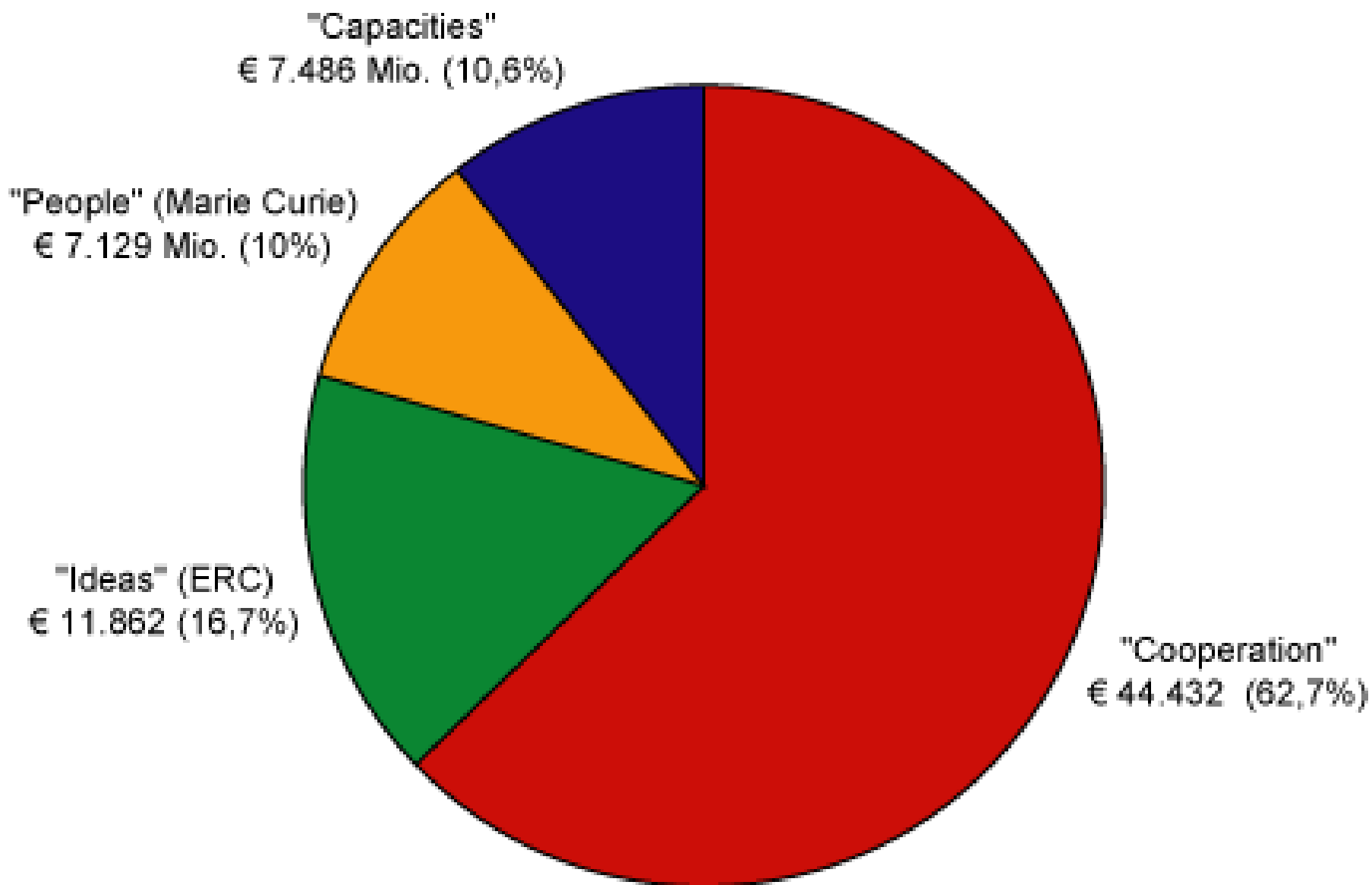
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Development of Research Policies



Proposal for FP7 Specific Programmes (1-4)

Cooperation

Themes (Topics)

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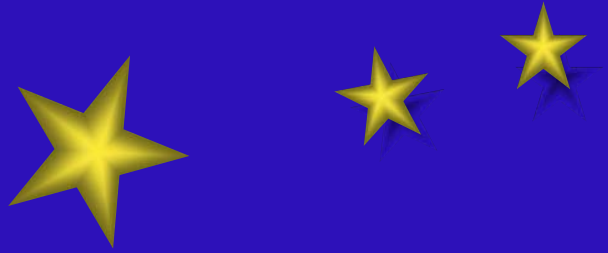
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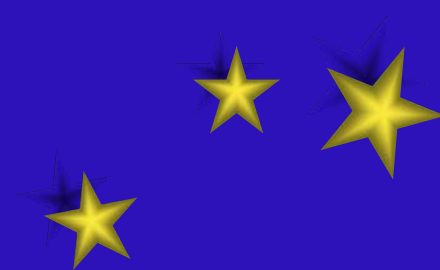
Development of Research Policies

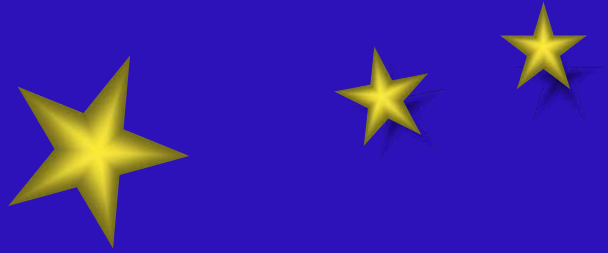


Cooperation Collaborative Research

- more than half the total FP7 budget
- support of cooperation between universities, industry, research centres and public authorities

Goal: to gain leadership in key scientific and technology areas





Cooperation Nine Themes (Topics)

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



FP6: Thematic Priorities



FP7: Themes (Topics)

1 Genomics and Biotechnology for Health

2 Information Society Technologies

3 Nanotechnologies, Materials, Production processes and devices

4 Aeronautics and Space

5 Food Quality and Safety

6 Sustainable Development, Global Change and Ecosystems

7 Citizens and Governance in a Knowledge Based Society

1 Health

2 Food, Agriculture and Biotechnology

3 Information and Communication Technologies

4 Nanosciences, Nanotechnologies, Materials and new Production Technologies

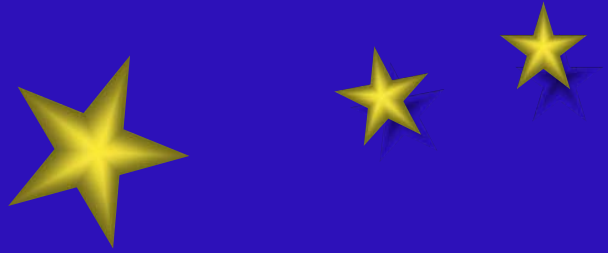
5 Energy

6 Environment (including Climate Change)

7 Aeronautics

8 Space

9 Security and Space



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**

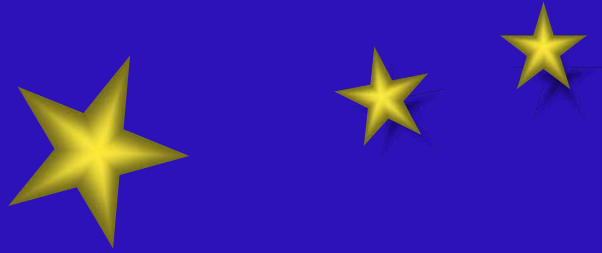




Cooperation - Topic 2

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

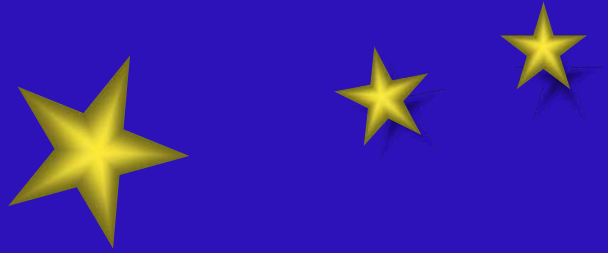


Cooperation – Topic 3

Information and Communication Technologies

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



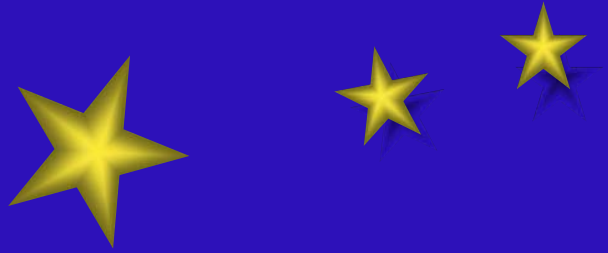


Cooperation – Topic 4

Nanosciences, Nanotechnologies, Materials and new Production Technologies

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



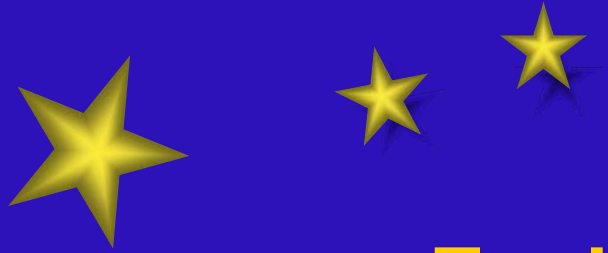


Cooperation – Topic 5

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



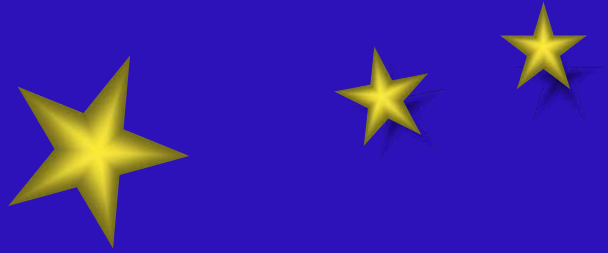


Cooperation – Topic 6

Environment (incl. Climate Change)

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



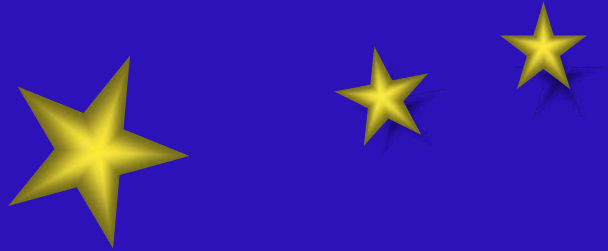


Cooperation – Topic 7

Transport (incl. Aeronautics)

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



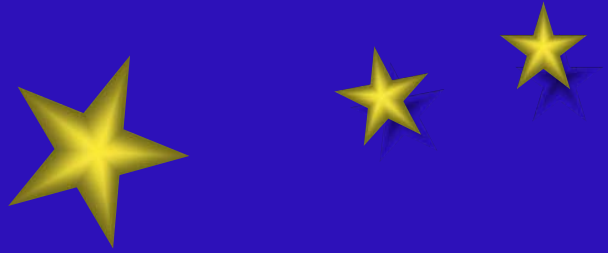


Cooperation – Topic 8

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





Cooperation – Topic 9

Security and Space

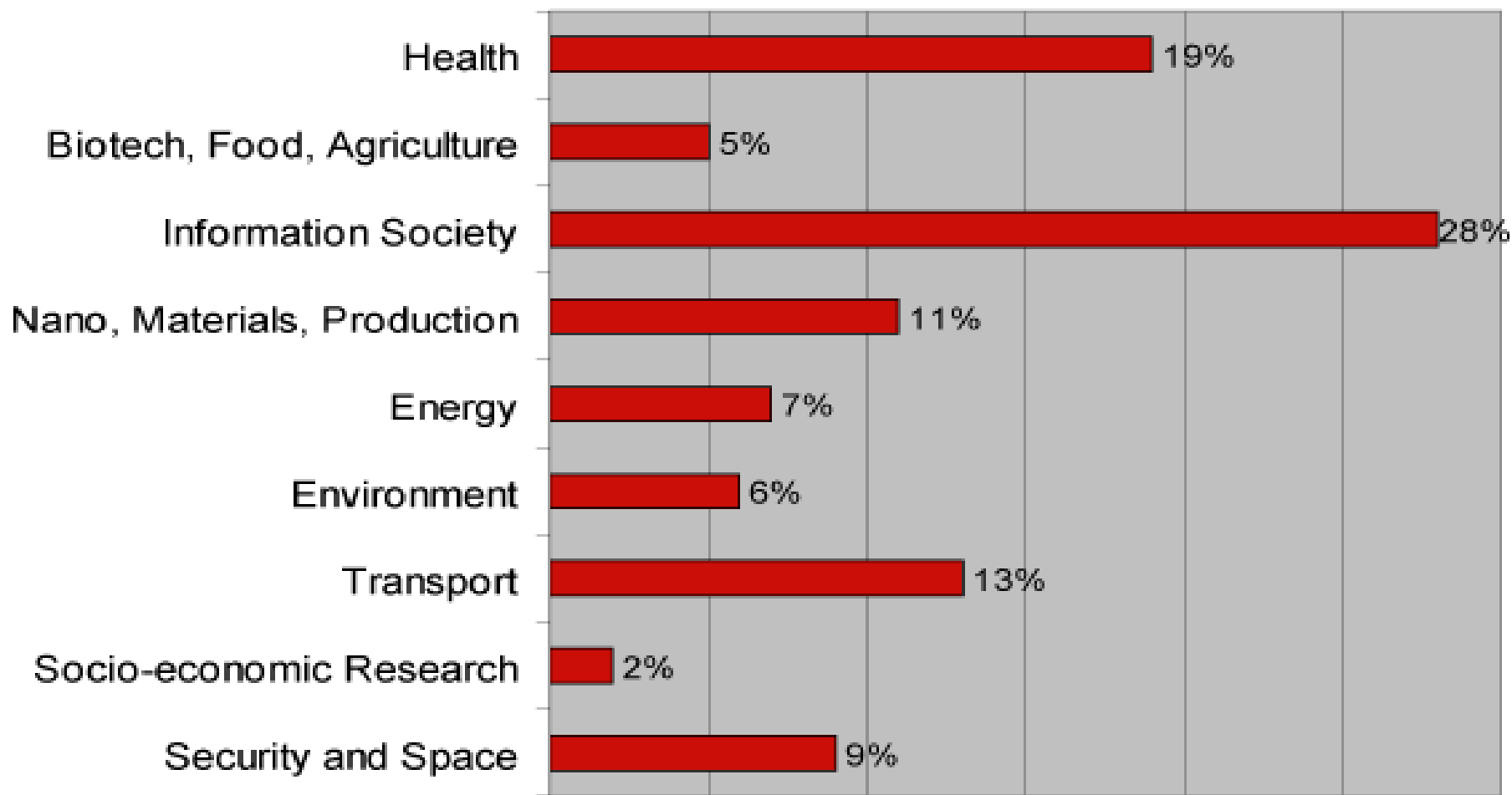
- Protection against terrorism and crime
- Security of infrastructures and utilities
- Border security
- Restoring security in case of crisis
- Security systems integration and interoperability
- Security and society
- Security research coordination and structuring

- Space-based applications at the service of the European Society
- Exploration of space
- RTD for strengthening space foundations



The Commission's proposal

9 Topics: Budget





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**
- 

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

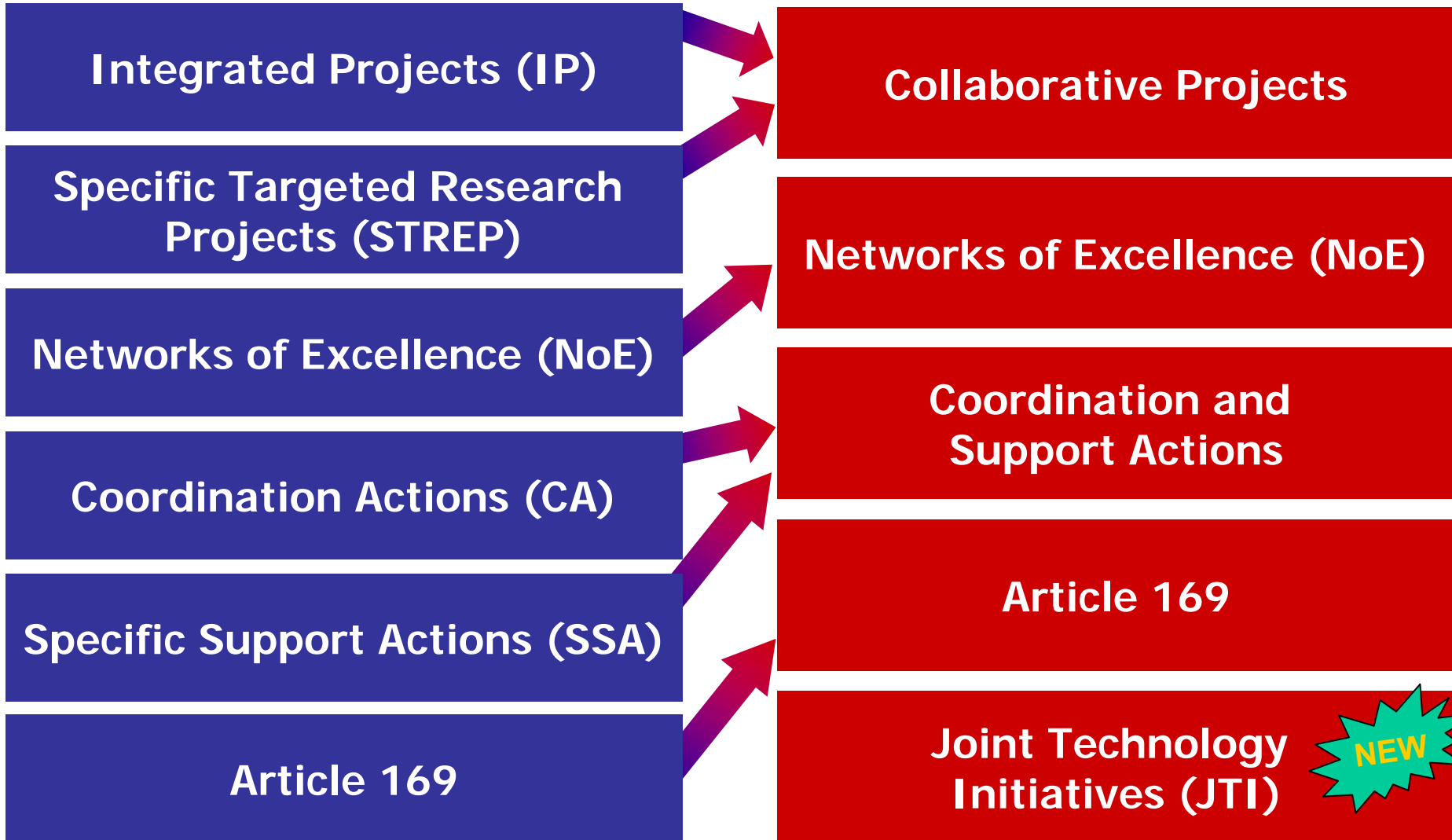
thus - strengthening the EU industrial and technological base
- supporting EU policies
- Funding Schemes
 - Collaborative Projects (IP/STREP)
 - Networks of Excellence (NoE)
 - Coordination / Support Actions (CA/SSA)

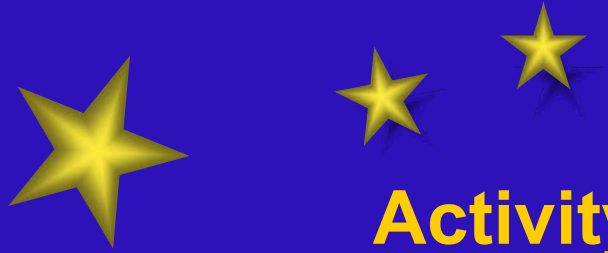
Instruments

FP6



FP7

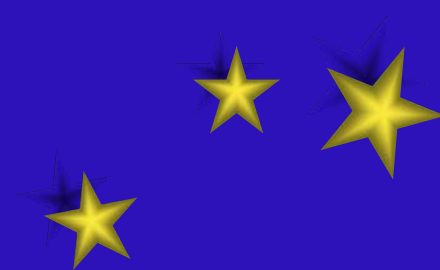





Cooperation

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)



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
- 



Joint Technology Initiatives

**Hydrogen
and Fuel Cells for a
Sustainable Energy
Future**

**Global Monitoring
for Environment
and Security**

**Aeronautics and
Air Transport**

**Innovative Medicines
for the Citizens
of Europe**

**Towards new
Nanoelectronics
Approaches**

Embedded systems

*Other possible themes
to be identified later...*






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, e.g. by extending their partnership, as well as opening mutually their programmes;
- 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 co-operation on a large scale in “variable geometry” between Member States sharing common needs and/or interests.



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.**
- 


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.



Proposal for FP7 Specific Programmes (1-4)

Cooperation

Themes (Topics)

1 2 3 4 5 6 7 8 9

Ideas

**European Research Council
(ERC)**

People

Marie-Curie Measures

Initial
Training

Life-
long
Training

Industry-
academia

Inter-
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Specific
actions

Capacities

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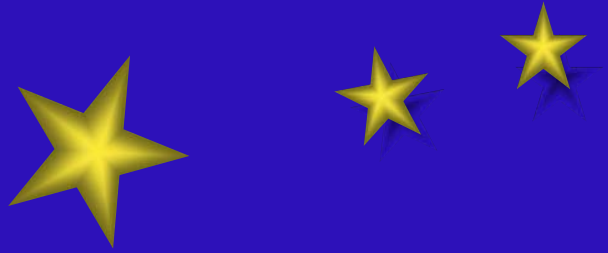
Regions of
Knowledge

Research
Potential

Science
in Society

INCO

Development of Research Policies



Ideas

Frontier Research

- **Setting-up of a European Research Council (ERC)**
- **Goal: to stimulate creativity and excellence by funding basic or 'frontier' research by individual teams competing at European level**



Proposal for FP7 Specific Programmes (1-4)

Cooperation

Themes (Topics)

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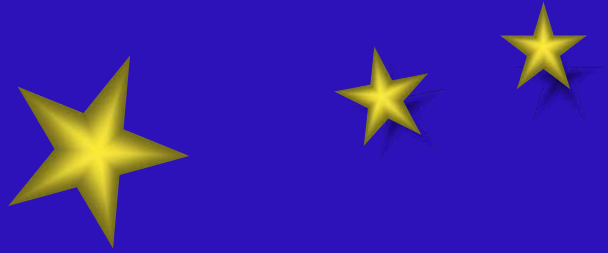
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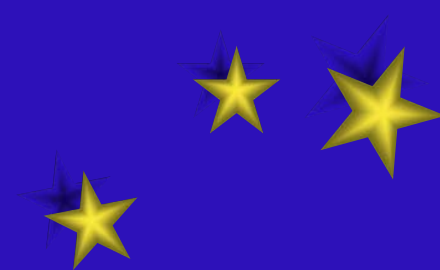
INCO

Development of Research Policies



People Human Potential

- Support to training, mobility and careers development through reinforced '*Marie Curie actions*'
- Goal: to develop and strengthen the human potential of European research





People

- **Initial training of researchers**
Marie Curie Networks
 - **Life-long training and career development**
Individual fellowships; Co-financing of regional/national/international programmes
 - **Industry-academia pathways and partnerships**
Industry-Academia Scheme
 - **International dimension**
Outgoing International Fellowships; Incoming International Fellowships; International Cooperation Scheme; Reintegration grants
 - **Specific actions**
Excellence awards
- 

Proposal for FP7 Specific Programmes (1-4)

Cooperation

Themes (Topics)

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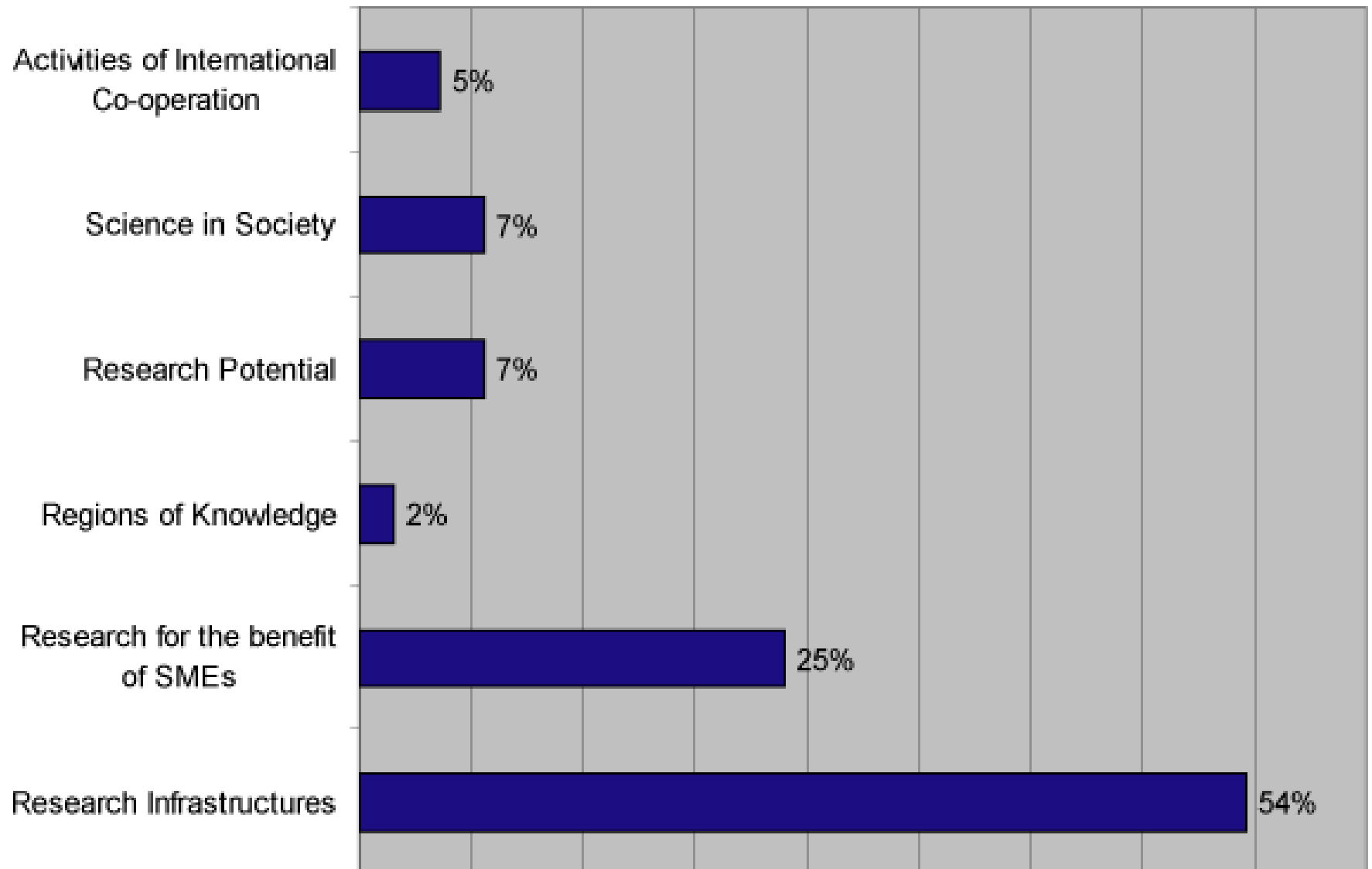
Capacities

Research Capacity / Development of Policies

- **Enhancement of the research and innovation capacity throughout Europe through**
 - optimizing the use and development of research infrastructures
 - strengthening innovative capacities of SMEs and their ability to benefit from research
 - supporting the development of regional research-driven clusters
 - Unlocking the research potential in the EU's convergence and outermost regions
 - a closer relationship between science and society
 - the development of international cooperation
 - support for the coherent development of research policies



Capacities






Tentative Roadmap for FP7

2005

- 6/4 Commission – Adoption of FP7 proposals
- 18/4 Council – Exchange of views
- 7/6 Council – Orientation debate
- 21/9 Commission – Proposals on SPs and Rules for participation and dissemination
- 11/10 Council – Exchange of views on SPs and Rules
- 23/11 Commission – Proposals under Articles 169 and/or 171
- 28-29/11 Council – Orientation debate on SPs and Rules
- 12-15/12 EP – 1st reading on EC FP. Opinion on Euratom FP

2006

- Feb/Mar Council – Common position on EC FP
EP – 1st reading on EC Rules. Opinion on Euratom Rules
 - April Common position on EC Rules
 - May/June EP – 2nd reading on EC FP; Opinion on SPs; 2nd reading on EC Rules (earliest)
 - June Council – Adoption of FP and Rules (earliest)
 - July Council and EP – Adoption of FP and Rules
 - July Council – Adoption of the SPs
 - Oct Commission – Adoption of Work programmes and necessary materials
 - Nov Commission – Publication of 1st calls
- 




Preparing for FP7

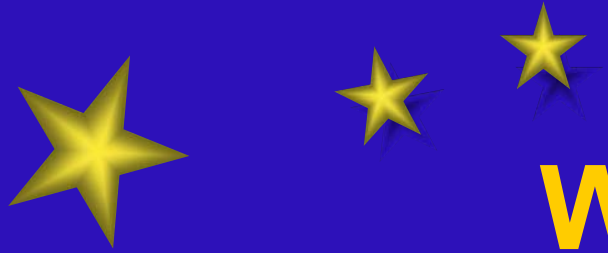
- Partner Search -





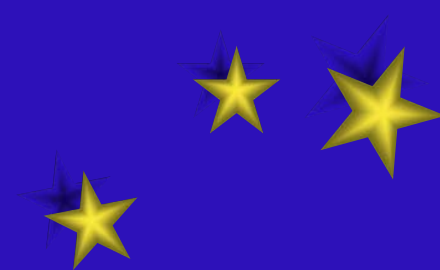
What to consider

- **Field of interest compatible with FP7?**
 - www.cordis.lu/fp7
 - europa.eu.int/comm/research/future
 - national websites
 - **Prior co-operation?**
 - Activate existing contacts
 - Whom have you co-operated with in the past?
 - Do you have contacts to successful projects?
 - **Find new partners**
- 



Where to look

- Expressions of Interest Database
eoi.cordis.lu





Sixth Framework Programme



You are here: [FP6 Home](#) > Expressions of Interest

- Home
- What is FP6?
- FP6 step by step
- Find a Call
- Get Support
- Find a Partner
- Find a Document
- Prepare & submit a proposal-EPSS
- Project management
- Find a Project
- What's New?

Expressions of Interest

- **New!** Expressions of interest for Sustainable Energy Systems are now published on CORDIS and accessible through a [search interface](#)
- Report of the Expression of Interest [Sustainable energy systems - research activities having an impact in the medium and longer term](#) published on CORDIS
- Expressions of interest for [FP6-Euratom](#) and [Sustainable energy systems - research activities having an impact in the medium and longer term now closed](#)
- Access the Science and Society [Expressions of Interest](#) submitted following the call of 1 April 2003
- Results and analysis of Expressions of Interest received by the European Commission to help prepare the first FP6 calls in 2002 are available below

Activity Areas



Results of Expressions of Interest received by the European Commission to help prepare the first FP6 calls

The European Commission invited the submission of expressions of interest (EoI) [Identifier: EOI.FP6.2002] to participate in research actions with an Integrated Project or a Network of Excellence for topics throughout the seven thematic priorities of the Specific Programme Proposal - Integrating and Strengthening the ERA - and thematic priorities 2.2 and 2.3 of the Specific Programme Proposal - Nuclear Energy.

A [full analysis of the EoIs](#) received by the Commission is available to download.

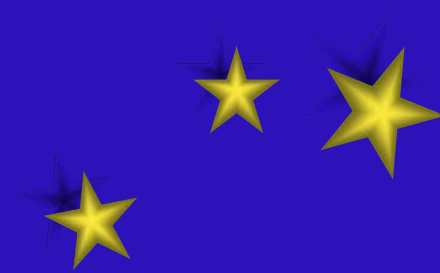
[Read an article about the EoIs received](#) taken from 'Innovation & Technology Transfer' - the newsletter of the European Commission's Innovation Directorate.

Enter search term(s):	<input type="text"/>
Search by thematic priority*:	<div style="border: 1px solid gray; padding: 5px;"> <ul style="list-style-type: none"> 1.1.1 Genomics and biotechnology for health 1.1.1.i Advanced genomics and its applications for health 1.1.1.i.a Fundamental knowledge and basic tools for functional genomics in all org 1.1.1.i.b Applications of knowledge and technologies in the field of genomics and 1.1.1.ii Combating major diseases 1.1.1.ii.a Application-oriented genomic approaches to medical knowledge and te 1.1.1.ii.b Combating cancer 1.1.1.ii.c Confronting the major communicable diseases linked to poverty 1.1.2 Information Society technologies </div>
Applicable Instruments*: (Integrated Project and Networks of Excellence)	<div style="border: 1px solid gray; padding: 5px;"> <ul style="list-style-type: none"> Integrated Project Network of Excellence </div>
Countries*:	<div style="border: 1px solid gray; padding: 5px;"> <ul style="list-style-type: none"> Austria Belgium </div>
* Keep the control key pressed to make more than one selection	
<input type="button" value="Submit"/> <input type="button" value="Clear"/>	



Where to look

- Expressions of Interest Database
eoi.cordis.lu
- CORDIS Partners
partners-service.cordis.lu





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Profile Type*:

Programme*:

OR

Private collaboration

Type*:

Network*:

Country*:

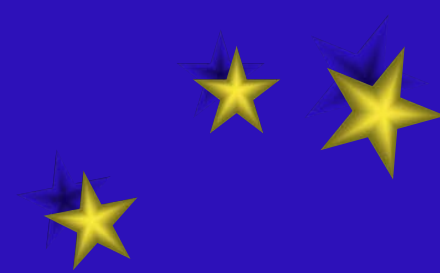
* Keep the control key pressed to make more than one selection

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Where to look

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partners-service.cordis.lu
- CORDIS Project Database: “Find a project”
www.cordis.lu/fp6/projects.htm





Sixth Framework Programme



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Find a Project

Project details are published on CORDIS after the [negotiation](#) and the [signature of the contract](#) between the European Commission and the consortia. This follows the publication of [calls for proposals](#) and the selection procedure where they are selected by the European Union to be partly financed by the Commission.

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+ Search Projects

Sort order:

Enter search term(s):

Activity areas where project information is available:

Any
Life sciences, genomics and biotechnology for health
Information society technologies
Nanotechnologies, Materials, New Processes
Aeronautics and space
Food quality and safety
Sustainable development, global change and ecosystems

Instrument* (Information currently available only for some instruments):

Any
Network of Excellence
Integrated Project
Specific Targeted Research Project
Specific Targeted Innovation Project

Country*:

Any Country
Austria
Belgium
Cyprus
Czech Republic

✦ Project News and Events

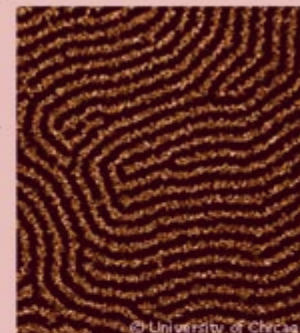
EU funded project develops a roadmap for nanotechnology applications

[Date: 2005-10-11]

Current nanotechnology applications exploit existing knowledge to create advantages for existing products. But in the medium and long term, greatly improved, or even entirely new, technologies and applications are expected to emerge, initiating a new technological cycle.

[Read more](#)

▪ [Partnering for rare disease therapy development](#), London, UK, from 25 to 27 October 2005



✦ Bonus Scheme

Research operators from less-prosperous regions find participation in FP6 a useful and beneficial exercise. However, they may discover that, by so doing, they are using resources that they need elsewhere.

To help such organisations carry out more R&D, the groundbreaking "BONUS" scheme provides an opportunity for FP6 participants from less prosperous regions to obtain a financial top-up for their project from the European Regional Development Fund. For more information see:

- <http://www.cordis.lu/era/bonus.htm>
- <http://www.cordis.lu/fp6/stepbystep/bonus.htm>

✦ Joining a project

During their initial negotiation with the European Commission, Integrated Projects (IPs) and Networks of Excellence (NoEs) may reserve a portion of the project budget for specific tasks to be carried out by a new contractor or contractors, who will join the consortium at a later date. New partners will be selected from proposals submitted in response to a [competitive call](#).

✦ Email alert services

Use our [Email Alert Services](#) to be notified each time a new FP6 projects is added to CORDIS.





Keep yourself informed

Official web sites:

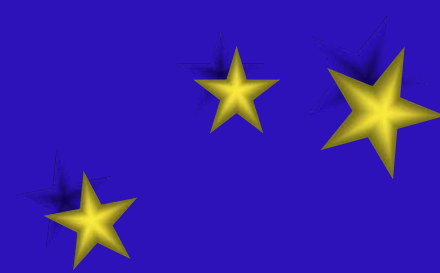
www.cordis.lu/fp7

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

Daily news:

www.cordis.lu/news/

www.cordis.lu/rapidus/





Keep yourself informed

Monthly magazines and e-news:

CORDIS Focus <http://www.cordis.lu/focus/>

R&D organisations located in Brussels
www.iglortd.org

EU R&D associations
www.hyperion.ie/euassociations.htm

Research in Europe www.researchresearch.com





Keep yourself informed

Other information sources:

Presentations by EU officials at different events

www.cordis.lu/fp6/ncps.htm

Register for access at:

www.ipr-helpdesk.org


Best ways:

**become an evaluator
participate in thematic networks,
conferences etc**






Expected simplification of the whole FP system

- introduction of a database of legal, financial and administrative information
 - minimisation of administrative and financial regulations
 - extended use of lump sum financing
 - simplified rules for participation and minimisation of paper work
 - reduction of time between the opening of negotiations and the effective entry into force of contracts
 - full operational autonomy to project consortiums
 - simplification of reporting procedure
- 



Expected simplification of the whole FP system

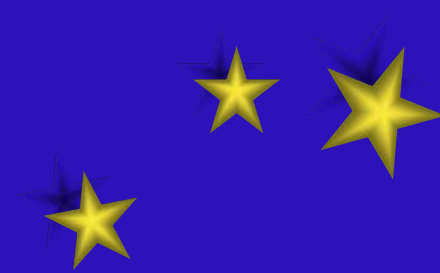
- rationalisation and simplification of information materials
 - two stage submission procedure will be extended to all calls
 - removal of need for complex cost reporting models
 - simplification of framework of Community's financial contribution and clear definition of eligible and non-eligible costs
 - systematic use of electronic tools for proposal submission, contract negotiations and submission of periodic and final reports
- 



What's new ?

Main new elements compared to FP6:

- Longer duration, more flexible implementation
- Annual budget doubled (EUR 5 billion ► 7.2 billion)
- Basic research (~ EUR 1.5 billion per year)
- Simplification of procedures
- Logistical and administrative tasks to be transferred to external structures
- Multi-financed large-scale initiatives





What's new ?

- Frontier research – European Research Council
- Technology platforms+ joint technology initiatives
- Financial support to new infrastructures (23 planned)
- Marie Curie grants (coordination of EU/national/regional resources)
- ERA-NET Plus
- innovation part of FP 6 will be moved to competitiveness and innovation programme
- new topic – security and space



Please note...

**... that the CORDIS-Server
has changed its address to:**

cordis.europa.eu.int

**Thank you for
your attention!**

