

Building the Europe of Knowledge

Proposals for the 7th Research Framework Programme 2007 - 2013

PROVISIONAL

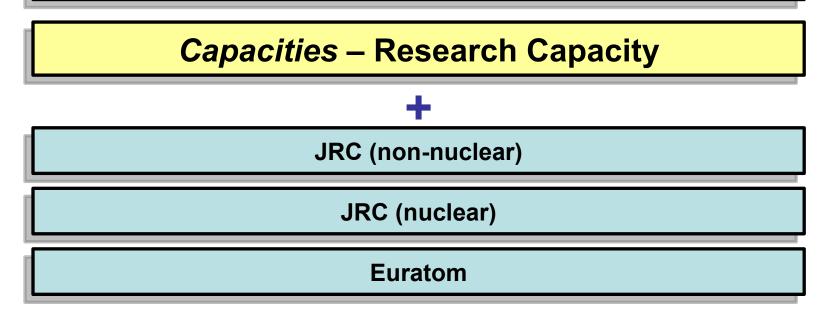
SUSTAINABLE DEVELOPMENT, GLOBAL CHANGE AND ECOSYSTEMS



Cooperation – Collaborative research

Ideas – Frontier Research

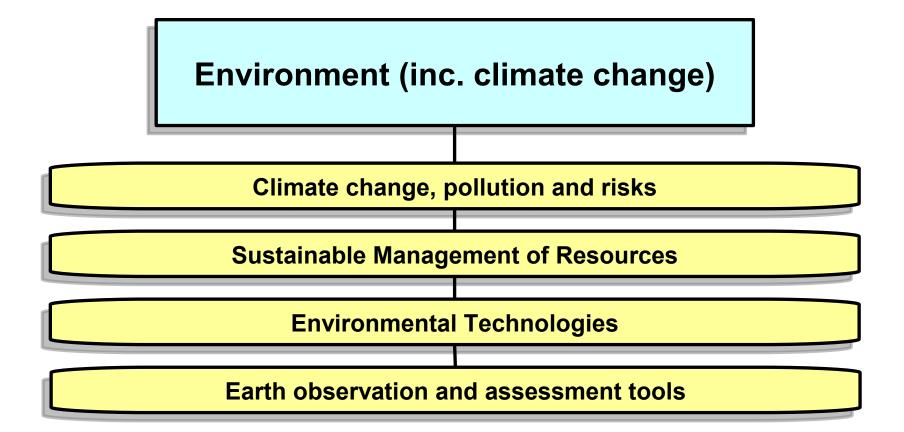
People – Human Potential



Cooperation – Collaborative research

9 Thematic Priorities

- 2. Health
- 3. Food, agriculture and Biotechnology
- 4. Information and Communication Technologies
- 5. Nanosciences, Nanotechnologies, Materials and new Production Technologies
- 6. Energy
- 7. Environment and climate change
- 8. Transport
- 9. Socio-Economic Sciences and the Humanities
- 10. Space and Security research



Activities

Climate change, pollution and risks

- Pressures on environment and climate: Functioning of climate and the earth system; adaptation and mitigation measures; pollution in air, soil and water; changes in atmospheric composition and water cycle; interactions between climate, land surface and the ocean; and impacts on biodiversity and ecosystems.
- *Environment and health:* Interaction of environmental stressors with human health including identification of sources, links to indoor environment, and impact and emerging risk factors; integrated risk assessment methods for toxic substances including alternatives to animal testing; quantification and cost-benefit analysis of environmental health risks and indicators for prevention strategies.
- Natural hazards: Improve prediction and integrated hazards- vulnerability and risks assessments for disasters related to geological hazards (such as earthquakes, volcanoes, tsunamis) and climate (<u>such as storms and</u> <u>floods</u>); develop early warning systems and improve prevention and mitigation strategies.

Sustainable Management of Resources

Conservation and sustainable management of natural and man-made resources: ecosystems; water resources management; waste management and prevention; protection and management of biodiversity, soil protection, seabed and coastal areas protection, approaches against desertification and land degradation; forest management; sustainable management and planning of urban environment, data management and information services; assessment and foresight relating to natural processes.

Evolution of marine environments: Impacts of human activities on the marine environment and its resources; pollution and eutrophication in regional seas and coastal areas; deep sea ecosystems; assessment of marine biodiversity trends, of ecosystem processes and of ocean circulation; seabed geology.

Environmental Technologies

Environmental technologies for observation, prevention, mitigation, adaptation, remediation and restoration of the natural and manmade environment: related to water, climate, air, marine, urban and rural environment, soil, waste treatment, recycling, clean production processes, chemicals safety, protection of cultural heritage and of the built environment.

Technology assessment, verification and testing: Methods and tools for environmental risk and lifecycle assessment of processes, technologies and products; support for sustainable chemistry, <u>water</u> <u>supply and sanitation Platforms</u>; scientific and technological aspects of a future European environmental technologies verification and testing programme.

Earth observation and assessment tools

Earth observation: Contribute to the development and integration of observation systems for environmental and sustainability issues in the framework of GEOSS; interoperability between systems and optimisation of information for understanding, modelling and predicating environmental phenomena.

Forecasting methods and assessment tools: modelling links between economy/environment/society including market based instruments, externalities, thresholds and developing the knowledge base and methodologies for sustainability impact assessment on key issues such as land use and marine issues; social and economic tensions related to climate change.

Cooperation – Collaborative research

- Under each theme there will be sufficient flexibility to address both *Emerging needs* and *Unforeseen policy needs*
- Dissemination of knowledge and transfer of results will be supported in all thematic areas
- Support will be implemented across all themes through:

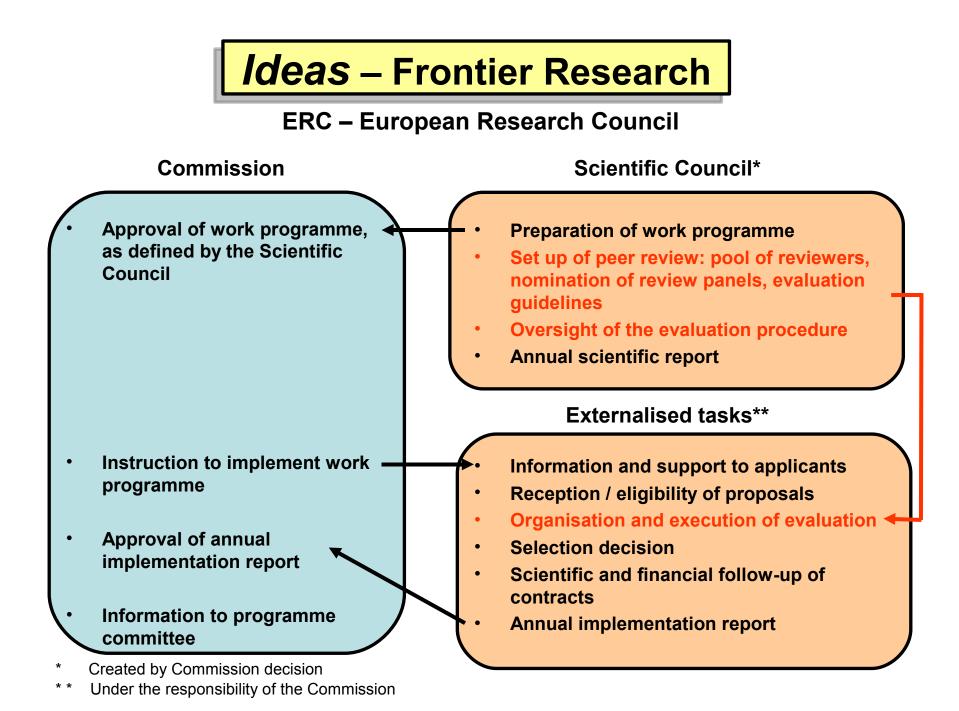
Collaborative research

(Collaborative projects; Networks of Excellence; Coordination/support actions)

Joint Technology Initiatives

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

International Cooperation



People – Human Potential

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

Capacities – Research Capacity

- 3. Research Infrastructures
- 4. Research for and by SMEs
- 5. Regions of Knowledge
- 6. Research Potential
- 7. Coherent development of research policies
- 8. Specific activities in International Cooperation
- 9. Science in Society

7th Framework Programme Budget

	7 th Framework Programme of the European Community (EC) (Respective shares and indicative breakdown, 2007-2013)										
	Themes	Health	Blotech, Food, Agriculture	Information Society	Nano, Materiais, Production	Energy	Environment	Transport	Socio- economic Research	Security and Space	
COOPERATION	 Using all funding schemes, including international co- operation 	19 %	5%	28 %	11%	7%	6%	13%	2%	9%	61.1 %
IDEAS				European	Research	Council					16.3 %
PEOPLE				Marie	Curle	Actions					9.8 %
CAPACITIES	Research Infrastructures										5.4 %
	Research for the benefit of SMEs										2.6 %
	Regions of Knowledge										0.2 %
	Research Potential					•		•	•	•	0.8 %
	Science in Society										0.8 %
	International Co-operation										0.5 %
JRC		-		Joint	Research	Centre		·			2.5 %
TOTAL EC ¹											100 %
EURATOM (2007- 2011)*											

The total budget for the 7th Framework Programme of the European Community (EC) is 73.215 million EUR for the period 2007 - 2013.

The 7th framework programme of the European Atomic Energy Community (Euratom) for nuclear research and training activities (2007 to 2011) comprising fusion energy research, nuclear fission and radiation protection and the Nuclear activities of the JRC. The total budget is 3.103 million EUR for the five years whereof the JRC 541 million EUR.

Tentative Roadmap for FP7

<u>2005</u>	
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
<u>2006</u>	
Feb/Mar	Council - Common position on EC FP
	EP - 1 st reading on EC Rules. Opinion on Euratom Rules.
April	Common position on EC Rules
May/June	EP - 2 nd reading on EC FP; Opinion on SPs; 2 nd 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 1 st calls