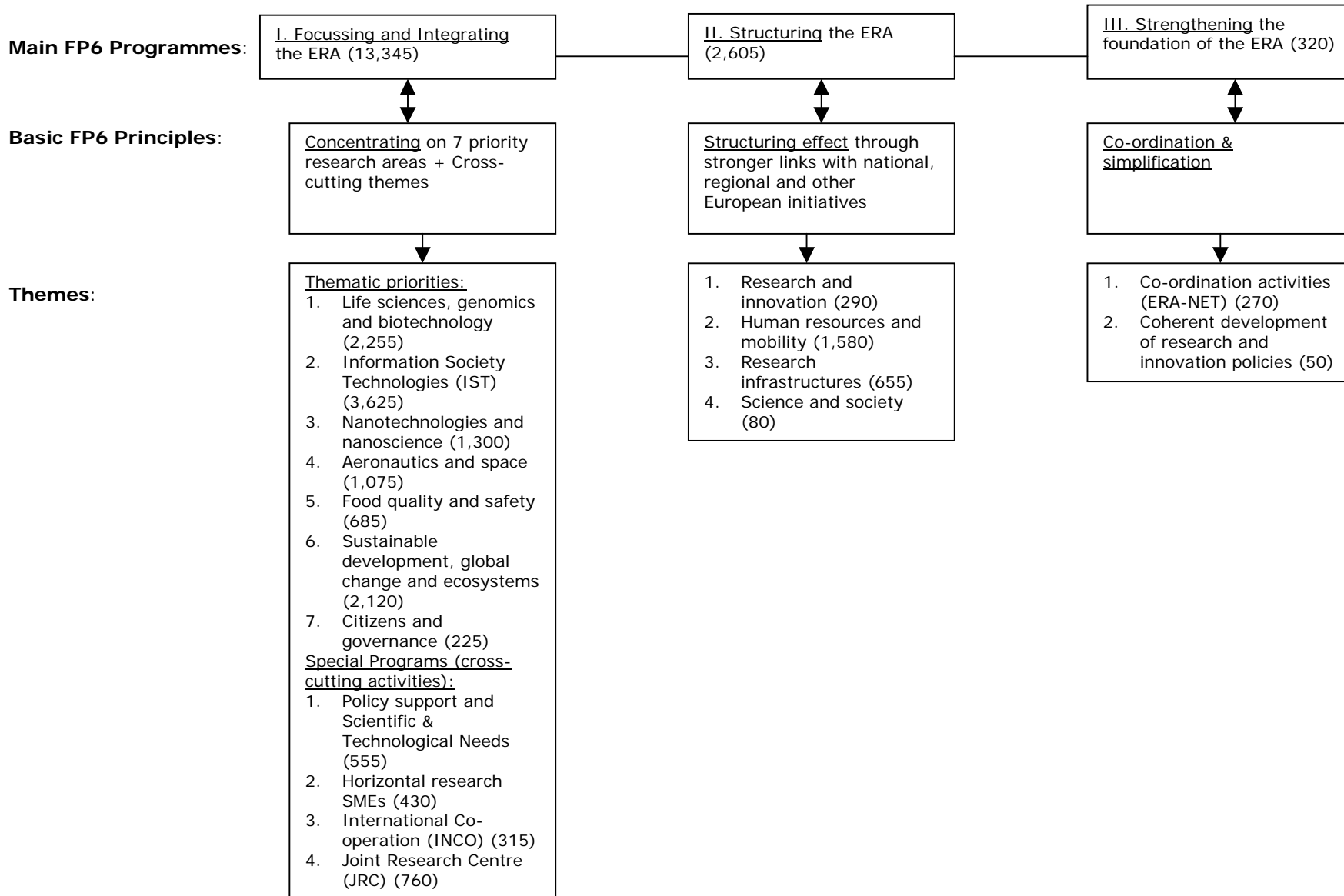


**6<sup>th</sup> Framework Programme EC DGRES 2002-2006** (Budget: E 16,270 million + Euratom priorities 1,230 = 17,500)  
 (Numbers in figure are million Euro) (see for further information: [http://europa.eu.int/comm/research/fp6/index\\_en.html](http://europa.eu.int/comm/research/fp6/index_en.html) and <http://www.cordis.lu/fp6> )



## Objectives of 6<sup>th</sup> Framework Programme DGRES 2002-2006

### General objective:

Strengthening the scientific and technological bases of EC industry and encouraging it to become more competitive at international level, while promoting all the research activities deemed necessary (Article 163(1) of the Treaty).

### More specific objectives:

1. To enable the Union, by 2010, to become the world's most competitive and dynamic knowledge-based economy (goal of the 2000 Lisbon European Council)
2. To better co-ordinate research and technological development activities and convergence of research and innovation policies, so as to ensure that national policies and EC policy are mutually consistent, through the establishment of a European research and innovation area (ERA)

## Instruments for each RTD activity and EC contribution

Type of instrument	RTD activities	EC contribution
1. Networks of Excellence (NoE)	<ul style="list-style-type: none"> <li>- Priority themes</li> <li>- Policy support &amp; anticipating scientific and technological needs</li> </ul>	Max. 25% of value of capacity and resources proposed for integration
2. Integrated Projects (IP)	<ul style="list-style-type: none"> <li>- Priority themes</li> <li>- Policy support &amp; anticipating scientific and technological needs</li> </ul>	<ul style="list-style-type: none"> <li>- Max 50% for research</li> <li>- Max 35% for demonstration</li> <li>- 100% for other activities like training, consortium management</li> </ul>
3. Specific Targeted Research / Innovation Projects (STREP)	<ul style="list-style-type: none"> <li>- Priority themes</li> <li>- Policy support &amp; anticipating scientific and technological needs</li> <li>- INCO</li> <li>- Research and innovation</li> <li>- Science and society</li> </ul>	Max 50%
4. Specific Research Projects for SMEs	Horizontal research for SMEs	Max 50%
5. Actions to promote and develop human resources and mobility (Madame Curie)	Human resources and mobility	Max 100%
6. Co-ordination Actions (CA)	All activities of 6 <sup>th</sup> FP	Max 100%
7. Specific Support Actions (SSA)	All activities of 6 <sup>th</sup> FP	Max 100%
8. Integrated Infrastructure Initiatives	Research infrastructures	Max 50-100%
9. Article 169	All activities of 6 <sup>th</sup> FP	To be defined
10. Direct Actions	JRC (non-nuclear activities)	100%

## Program I: Integrating & Strengthening the ERA

Theme	Objectives	Activities	Budget
<b>Thematic priorities:</b>			
1. Life sciences, genomics and biotechnology for health	<ul style="list-style-type: none"> <li>- To exploit breakthroughs in decoding genomes of living organisms, for the benefit of public health and citizens</li> <li>- To increase the competitiveness of European biotechnology industry</li> </ul>	<ul style="list-style-type: none"> <li>- Advance genomics and its applications for health (1,100)</li> <li>- Combating major diseases (1,155)</li> </ul>	2,255
2. Information society technologies (IST)	To develop hardware and software technologies and applications to increase competitiveness of European industry and allow European citizens the possibility of benefiting from the development of the knowledge-based society.	<ul style="list-style-type: none"> <li>- Integrating research into technological areas of priority interest for citizens and business</li> <li>- Communication and computing infrastructures</li> <li>- Components and microsystems</li> <li>- Information management and interfaces (to enable easier interaction)</li> </ul>	3,625
3. Nano-technologies and nano-sciences, knowledge-based multifunctional materials, new production processes	To achieve a critical mass of capacities needed to develop and exploit, especially for greater eco-efficiency and reduction of discharge of hazardous substances to the environment, leading-edge technologies for the knowledge-based products, services and manufacturing processes	<ul style="list-style-type: none"> <li>- Nano-technologies and nano-science (incl. applications in areas such as health, energy, environment)</li> <li>- Knowledge-based multifunctional materials (incl. technologies associated with production and transformation of biomaterials)</li> <li>- <b>New production processes and devices</b> (incl. research on sustainable waste management and hazard control, including bio-processes)</li> </ul>	1,300
4. Aeronautics and space	<ul style="list-style-type: none"> <li>- To strengthen the scientific and technological bases of European aeronautics and space industry to become more competitive at international level</li> <li>- To help exploit the potential of European research in this sector to improve safety and environmental protection</li> </ul>	<ul style="list-style-type: none"> <li>- Aeronautics</li> <li>- Space (incl. research on satellite-based information systems and services)</li> </ul>	1,075
5. Food quality and safety	To establish integrated scientific and technological bases to develop environmentally friendly production and distribution chain of safer, healthier and varied food.	Various aspects of control of health risks and links between health and food (including environmental friendly production and processing, impacts of organic farming, GMOs, and biotechnology on health)	685
6. Sustainable development, global change and ecosystems	<ul style="list-style-type: none"> <li>- To strengthen the implementation of the sustainable development strategy and the 6<sup>th</sup> Environmental Action Program</li> <li>- To integrate environmental, economic and social objectives in fields of renewable energy, transport, and sustainable management of Europe's land and marine resources</li> <li>- To understand and control global change and preserve the equilibrium of ecosystems</li> </ul>	<ul style="list-style-type: none"> <li>- Sustainable energy systems (810)</li> <li>- Sustainable surface transport (610)</li> <li>- <b>Global change and ecosystems</b> (700): <ul style="list-style-type: none"> <li>* Greenhouse gas emissions (incl. carbon sinks)</li> <li>* Water cycle</li> <li>* Biodiversity, protection of genetic resources, sustainable management of ecosystems and interactions between human activities and ecosystems</li> <li>* Desertification and natural disasters</li> <li>* Sustainable land management (incl. Integrated coastal zone management, multipurpose utilisation of agricultural and forest resources)</li> <li>* Operational forecasting and modelling (incl. climate change observation systems)</li> <li>* Complementary research</li> </ul> </li> </ul>	2,120
7. Citizens and governance in a knowledge-based society	To mobilise European research capacities in economic, political, social sciences and humanities to develop an understanding of and address issues related to the emergence of the knowledge-based society and new forms of relationships between citizens and institutions	<ul style="list-style-type: none"> <li>- Knowledge-based society and social cohesion (incl. improving production, transmission and use of knowledge in Europe)</li> <li>- Citizenship, democracy and new forms of governance in context of increased integration and globalisation and from perspectives of history and cultural heritage</li> </ul> <p>Operational focus:</p> <ul style="list-style-type: none"> <li>- Transnational research and comparative studies</li> <li>- Interdisciplinary research in support of policies</li> <li>- Establishment of exploitation of European scale research infrastructure and data and knowledge bases</li> </ul>	225

Theme	Objectives	Activities	Budget
<b>Special Programs (Cross-cutting activities):</b>			
1. Policy Support & anticipating scientific and technological needs	<ul style="list-style-type: none"> <li>- To respond to scientific and technological needs of EU policies, underpinning their formulation and implementation, and bearing in mind the interests of future members of the EU and associated countries</li> <li>- To respond flexible and rapidly to major unforeseeable developments, emerging scientific and technological problems and opportunities, as well as needs arising at the frontiers of knowledge</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Policy-oriented research on thematic priorities that are not science-driven, incl. sustainable development &amp; environment</b>, development aid, education and training, culture, gender equality, etc. More specifically: <ul style="list-style-type: none"> <li>* Sustainable management of Europe's natural resources (incl. multifunctional role of agriculture and forestry to ensure sustainable development and promotion of rural areas, sustainable management of agriculture and forests, environmental assessment)</li> <li>* Providing health, security and opportunity to Europe's people (incl. mitigation of risks of natural disasters)</li> <li>* Underpinning the economic potential and cohesion of a larger and more integrated EU (incl. forecasting and developing innovative policies for sustainability, protection of cultural heritage and associated conservation strategies)</li> </ul> </li> <li>- Exploration of New and Emerging Scientific and Technological needs (NEST), incl. transdisciplinary research which is highly innovative and involves high (technical) risks, research to assess new discoveries</li> </ul>	555
2. <b>Horizontal research involving SMEs</b>	To improve the technological capacity of SMEs and develop their ability to operate on European and international scale	<ul style="list-style-type: none"> <li>- Co-operative research (carried out by RTD performers for a number of SMEs on themes of common interest)</li> <li>- Collective research (carried out by RTD performers on behalf of industrial associations to improve standards of competitiveness of large communities of SMEs)</li> </ul>	430
3. <b>International Co-operation (INCO)</b>	To help open up the ERA to the rest of the world, specifically: <ul style="list-style-type: none"> <li>- to help European researchers to have access to knowledge and expertise existing elsewhere in the world</li> <li>- To push back the boundaries of knowledge and help to resolve major global issues like health and environment</li> <li>- To reinforce synergies with EC's foreign policy and development aid policy</li> </ul>	Priorities depend on the interests and objectives of the partnership between the EC and groups of countries concerned, as well as their specific economic and social needs (Apart from these specific measures, third countries can participate in thematic priorities as well)	315
4. Joint Research Centre (JRC)	<ul style="list-style-type: none"> <li>- To support, independently and customer-driven, the formulation and implementation of EC policies, with special attention to co-operation with candidate countries</li> <li>- To provide scientific and technological support for EU enlargement</li> <li>- To develop a pan-European science and technology reference system</li> </ul>	<ul style="list-style-type: none"> <li>- Health (food safety, GMOs, air and water quality)</li> <li>- Environment (climate change, sustainable development, biodiversity, protecting of European environment, monitoring and prediction of natural disasters, reference measurements and networks)</li> <li>- Chemicals</li> </ul>	760

All activities under this first program will have special attention to:

- technological innovation
- development of highly innovative enterprises in areas of vital interest to the European competitiveness
- measurements and testing aspects
- sustainable development
- socio-economic, ethical and wider cultural aspects
- gender equality

## Program II: Structuring the European Research Area (ERA)

Theme	Objectives	Activities	Budget
1. Research and innovation	To stimulate innovation, utilisation of results, transfer of knowledge and technologies, and setting up technology business, not least in the less developed areas.	<ul style="list-style-type: none"> <li>- Networking of stakeholders and users in the European innovation system, analysis and studies to promote exchange of experience and good practice</li> <li>- Encourage transregional co-operation regarding innovation, support for setting-up technology business</li> <li>- Experiment with new tools and approaches concerning technological innovation</li> <li>- Establish or consolidate information services, in particular electronic services</li> <li>- Economic and technological intelligence activities (incl. dissemination of information which helps researchers, entrepreneurs (SMEs) and investors in their decision-making</li> <li>- Analysis and evaluation of innovation activities, lessons learnt from innovation policies</li> </ul>	290
2. Human resources and mobility (Marie Curie Action)	<p><b>To develop world-class human resources by promoting transnational mobility for training &amp; transfer of knowledge between sectors</b>, through</p> <ul style="list-style-type: none"> <li>- supporting development of excellence,</li> <li>- making Europe more attractive to best of Third Country researchers.</li> </ul> <p>Especially supporting measures for mobility of women, and creating synergies in higher education in Europe.</p>	<ul style="list-style-type: none"> <li>- Support measures for universities, research centres, businesses (SMEs) and networks for hosting European and third country researchers, including training and pre-doctoral research (setting-up long-term training networks, encourage mobility between sectors)</li> <li>- Individual support measures for European researchers for mobility to another European of a third country, and for top-class third country researchers wishing to come to Europe (having at least 4 years of research experience)</li> <li>- Financial contributions to national or regional programmes in support of researcher mobility</li> <li>- Creation and development of European research teams considered having potential to reach high level of excellence (leading edge or interdisciplinary research)</li> <li>- Scientific prizes for work of excellence by researcher receiving EU financial support for mobility</li> </ul>	1,580
3. Research Infrastructures	To establish a fabric of research infrastructures of European interest and to promote their optimum use.	<ul style="list-style-type: none"> <li>- Transnational access to research infrastructures</li> <li>- Integrated activities, co-operation networks, joint research projects</li> <li>- High-capacity and high-speed European communication infrastructure</li> <li>- Feasibility studies and preparatory work for the creation of European scale infrastructures</li> <li>- Optimising European infrastructures to enhance European added value</li> </ul>	655
4. Science and Society	<ul style="list-style-type: none"> <li>- To encourage harmonious relations between science and society</li> <li>- To contribute to scientists' critical thinking and responsiveness to societal concerns, and to awareness of society in respect of innovation through informed dialogue between researchers, industrialists, political decision-makers and citizens.</li> </ul>	<ul style="list-style-type: none"> <li>- Bringing research closer to society (science and governance, scientific advice, involvement of society in research, foresight)</li> <li>- Science and ethical values (responsible use of scientific and technological progress, incl. research on ethics in relation to science)</li> <li>- Science-society dialogue (incl. new forms of dialogue with participation of relevant stakeholders, stimulation of awareness, promoting young people's interest in science, promoting role and place of women in science and research)</li> </ul> <p>Operational focus:</p> <ul style="list-style-type: none"> <li>- Networking and structural linking institutions and activities (using information society technologies)</li> <li>- Exchange of experience and good practice</li> <li>- Specific research</li> <li>- High-profile awareness raising</li> <li>- Data bases and studies</li> </ul>	80

**Program III: Strengthening the foundations of the European Research Area (ERA)**

Theme	Objectives	Activities	Budget
Strengthening the foundations of the ERA	To stimulate and support programme co-ordination and joint activities conducted at national and regional level, as well as among European organisations, in order to develop the common knowledge base necessary for coherent policy development	<ul style="list-style-type: none"> <li>- <b>Co-ordination activities (ETA-NET) (270)</b> <ul style="list-style-type: none"> <li>* health</li> <li>* biotechnology</li> <li>* environment</li> <li>* energy</li> </ul>                     (mutual opening-up of national and regional programmes, networking of research activities, scientific and technological co-ordination activities)                 </li> <li>- Support coherent development of research and innovation policies (50)                     <ul style="list-style-type: none"> <li>* scientific and technological foresights</li> <li>* specialised working groups and forums for concertation and political debate</li> <li>* benchmarking of research and innovation policies</li> <li>* mapping of scientific and technological excellence in Europe</li> </ul> </li> </ul>	320