

7th Framework Program

2007-2013
The challenge



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FP 7 – Structure and Budget



Cooperation
32,413 Bil. €

People
4,750 Bil. €

Ideas
7,510 Bil. €

Capacities
4,097 Bil. €

+

GFS (non-nuclear) 1,751 Bil. €

GFS (nuclear) 0,517 Bil. €

Euratom 2,234 Bil. €

Rules for participation



- Regulation No 1906/2006
- Minimum conditions: 3 legal independent entities established in a Member State or associated country (no two of which established in the same MS/AS)
 - coordination/support /Marie Curie: 1 independent legal entity
 - ERC/Frontier Research: 1 independent legal entity
 - specific programs or work programs may lay down conditions regarding the minimum number of participants

Calls/Proposal Submission



- Thematic Calls
 - In accordance with the requirements laid down in the specific programs and the work programs
 - 3/4 months open
 - electronic submission (EPSS)
 - Two stage submission:
 - first stage: short project description
 - second stage: full proposal
- Open calls:
<http://cordis.europa.eu/fp7/dc/index.cfm>

Evaluation



Evaluation Criteria

- Scientific and/or technological excellence
- Relevance to the objectives of the specific programs
- Potential impact through the development, dissemination and use of project results

Specific criteria:

- Program People:
 - quality and implementation capacity of the applicants
 - quality of the proposed activity in scientific training and/or transfer of knowledge
- Frontier Research:
 - Excellence

Specific Programs



- „Cooperation“ – Collaborative Research
 - „Ideas“ – Frontier Research
 - „People“ – Human Potential
 - „Capacities“ – Research Capacity
- +
- JRC (non-nuclear)
 - JRC (nuclear)
 - EURATOM

„Cooperation“ – Collaborative Research



10 themes:

- Health
- Food, Agriculture and Biotechnology
- Information and Communication Technologies
- Nanosciences, Nanotechnologies, Materials and new Production Technologies
- Energy
- Environment (including Climate Change)
- Transport (including Aeronautics)
- Socio-Economic Sciences and the Humanities
- Space
- Security



1. Health

- **Objectives:**
 - improve the health of European citizens
 - boost the competitiveness of health-related industries and businesses
 - address global health issues
- **Specific goals:**
 - Promoting good health
 - Preventing and treating major diseases
 - Delivering health care
 - Increasing the competitiveness of health care biotechnology and medical technology sectors where SMEs are main actors
 - Developing norms and standards for advanced therapies
 - Enhancing international efforts to combat global health problems
 - Researching rare diseases
- **What will be funded?**
 - Biotechnology, generic tools and technologies for human health
 - Translating research for human health
 - Optimisation of the delivery of health care to European citizens
- **Budget: € 6.1 billion**

2. Food, Agriculture and Biotechnology



- **Objectives:**
 - to build a European Knowledge Based Bio-Economy (KBBE)
 - to network industries and economic sectors
 - to manage and exploit biological resources and related services,
 - to supply or consumer industries
- **Specific goals:**
 - to improve the knowledge-based bio-economy
 - safer, healthier, higher quality food;
 - to improve sustainable use and production of renewable bio-resources;
 - to prevent risk of epizootic and zoonotic diseases and food related disorders;
 - sustainability and security of agricultural, aquaculture and fisheries production;
 - high quality food, taking into account animal welfare and rural and coastal contexts and response to specific dietary needs of consumers
- **What will be funded?**
 - Sustainable production and management of biological resources from land, forest and aquatic environments;
 - Fork to farm: Food (including seafood), health and well-being;
 - Life sciences, biotechnology and biochemistry for sustainable non-food products and processes.
- **Budget: € 1.9 billion**

3. Information and Communication Technologies



- **Objectives:**
 - to boost innovation, creativity and competitiveness through out the economy;
 - delivering cutting-edge science in all scientific and technological areas;
 - to improve the public sector efficiency, and modernize sectors ranging from education to energy;
 - to tackle social challenges, improving quality of life
- **Specific goals:**
 - productivity and innovation, by facilitating creativity and management;
 - modernization of public services, such as health, education and transport;
 - advances in science and technology, by supporting cooperation and access to information.
- **What will be funded?**
 - future information infrastructures (i.e. networks)
 - Smarter machines, better Services
 - Development of new technologies and embed intelligence into products, services and processes
 - Digital content and learning
 - E-Healthcare
 - Improvement and support for environment, energy and transport
 - Access for All
 - ICT-based research infrastructures
 - Future and Emerging Technologies
- **Budget: € 9.05 billion**

4. Nanosciences, Nanotechnologies, Materials and new Production Technologies



- **Objectives:**
 - to improve the competitiveness of European industry and generate the knowledge needed to transform it from a resource-intensive to a knowledge-intensive industry.
 - to generate 'step changes' in a wide range of sectors and implementing decisive knowledge for new applications between different technologies and disciplines.
 - to improve new, high tech industries and higher-value, knowledge-based traditional industries, with a special focus to the appropriate dissemination of research results to SMEs.
- **Specific goals:**
 - transformation of European industry into a knowledge-intensive in order to produce high added value products
- **What will be funded?**
 - Nanosciences and nanotechnologies
 - Materials
 - New production
 - Integration of technologies for industrial applications
- **Budget: € 3.47 billion**

5. Energy



- **Objectives:**
 - to create a more sustainable, competitive and secure energy system
 - Less dependency on imported fuels
 - to use a diverse mix of energy sources, in particular renewables, energy carriers and non polluting sources.
- **Specific goal:**
 - development of cost-effective technologies
- **What will be funded?**
 - Hydrogen and fuel cells
 - Renewable electricity generation
 - Renewable fuel production - fuel production systems and conversion technologies.
 - Renewable sources for heating and cooling
 - CO2 capture and storage technologies for zero emission power generation
 - Clean Coal Technologies – (i.e. improve power plant efficiency)
 - Smart energy networks –
 - Energy efficiency and savings
 - Knowledge for energy policy making
- **Budget: € 2.35 billion**

6. Environment (incl. Climate Change)



- **Objectives:**
 - advance our knowledge on the interactions between climate, biosphere, ecosystems and human activities
 - develop new technologies, tools and services, for the sustainable development of the environment and its resources.
- **Special goals:**
 - sustainable relationship with the environment improving competitiveness and strengthening the European industry.
 - Sustainable management of the environment and its resources
 - sustainable impact assessments of EU policies and follow up to the Kyoto and post-Kyoto actions on climate change.
- **What will be funded?**
 - Climate change, pollution and risks
 - Sustainable Management of Resources
 - Environmental Technologies
 - Earth observation and assessment tools
- **Budget: € 1.89 billion**

7. Transport (incl. Aeronautics)



- **Objective:**
 - develop safer, 'greener' and 'smarter' pan-European transport systems
- **Specific goal:**
 - mitigate the negative impacts and consequences of increased mobility in relation to the environment, energy usage, safety and security and public health.
- **What will be funded?**
 - Aeronautics and air transport
 - Sustainable surface transport
 - European global satellite navigation system (Galileo and EGNOS)
- **Budget: € 4.16 Billion.**

8. Socio-Economic Sciences and the Humanities



- **Objective:**
 - in-depth, shared understanding of the complex and interrelated socio economic challenges Europe is confronted with.
- **Specific goal:**
 - growth, employment and competitiveness, social cohesion, social, cultural and educational challenges in an enlarged EU, sustainability, environmental challenges, demographic change, migration and integration, quality of life and global interdependence.
- **What will be funded?**
 - 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
- **Budget: € 623 million**



9. Space

- **Objectives:**
 - support a European Space Program focusing on applications such as 'Global monitoring for environment and security' (GMES) with benefits for citizens and for the competitiveness of the European space industry.
 - development of a European space policy, support key players, (i. e. European Space Agency (ESA))
- **Specific goals:**
 - improve technological competence
 - Sustaining a competitive industry, including manufacturers, service providers and operators, requires new research and technologies.
 - Improve Space applications and technological spin-off
- **What will be funded?**
 - Space-based applications serving European society (GMES)
 - Exploration of space
 - Strengthening Space foundations
- **Budget: € 1.43 billion**

10. security



- **Objectives:**
 - to develop technologies and knowledge needed to ensure the security of citizens from threats such as terrorism and (organized) crime, natural disasters and industrial accidents while respecting fundamental human rights;
 - to ensure optimal and concerted use of available and evolving technologies to the benefit of civil European security;
 - to stimulate the cooperation of providers and users for civil security solutions;
- **Specific goal:**
 - to develop technologies and capabilities in support of other European Community policies in areas such as transport, civil protection, energy, environment and health.
- **What will be funded?**
 - Increasing the security of citizens
 - Increasing the security of infrastructures and utilities
 - Intelligent surveillance and border security
 - Restoring security and safety in case of crisis
 - Improving security systems integration, interconnectivity and interoperability
 - Security and society
 - Security research coordination and structuring
- **Budget: € 1.4 Billion**

„Cooperation“ – Collaborative research



- 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

Each research area will address:

- „*Emerging needs*“ and „*Unforeseen policy needs*“
- Dissemination of knowledge and transfer of results

Technology Platforms



European Technology Platforms participants define, at the European level, a common strategic research agenda, and address technological and non-technological issues for implementing it.

TP's main goals are:

- to provide a framework for stakeholders, led by industry,
- to define research and development priorities, timeframes and action plans on a number of strategically important issues,
- to focus research funding on areas with a high degree of industrial relevance,
- to Address technological challenges that can potentially contribute to a number of key policy objectives

More than 30 Technology Platforms:

http://cordis.europa.eu/technology-platforms/individual_en.html

Joint Technology Initiatives



- JTI are long-term public-private research partnerships. i.e. resulting from the work of one or more Technology Platforms
- each JTI combines:
 - private sector investment
 - National public funding
 - European public funding (including grant funding from the Research Framework Programme)
 - loan finance from the EIB
- Planned JTI:
 - Hydrogen and Fuel Cells for a Sustainable Energy Future
 - Innovative Medicines for the Citizens of Europe
 - Aeronautics and Air Transport
 - Embedded systems
 - Global Monitoring for Environment and Security
 - Towards new Nanoelectronics Approaches

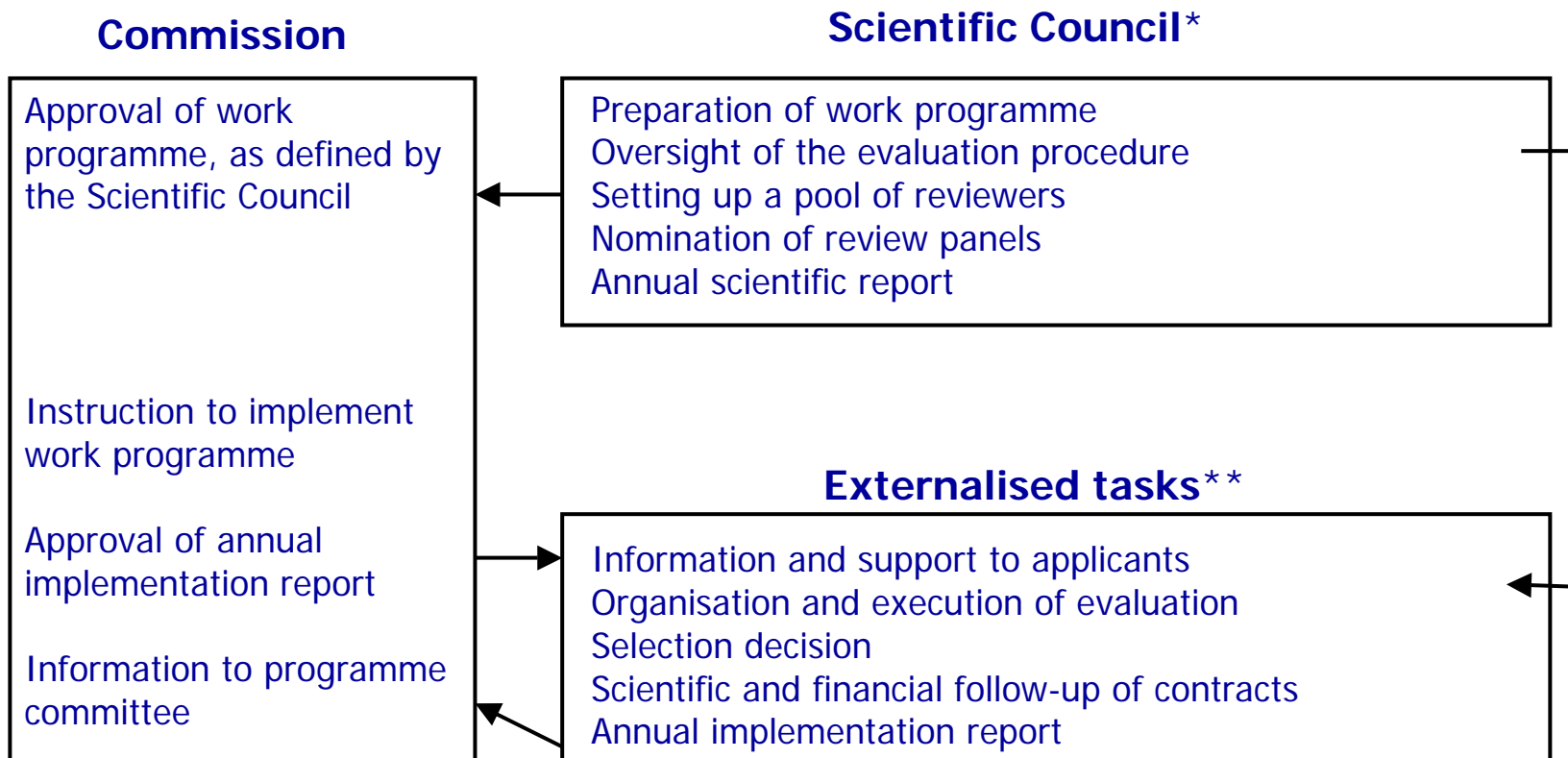
Other possible themes might be identified later...



„Ideas“ – Frontier Research

ERC = European Research Council

Budget: 7,5 Billions



* Created by Commission decision

** Under the responsibility of the Commission



„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



- Research Infrastructures (1.75 billions)
 - *Support to existing research infrastructures*
 - *Support to new research infrastructures*
- Research for the Benefit of SMEs and SME Associations (1.33 billions)
- Regions of Knowledge (126 millions)
 - Research driven clusters
- Research Potential (340 millions)
 - Transnational two-way secondments and recruitment
 - Research equipment and the material environment
 - Workshops and conferences for knowledge transfer
 - „Evaluation facilities“
- Science in Society (330 millions)
- Coherent Development of policies (70 millions)
 - complement the coordination activities under the *Cooperation* programme
- Activities of International Cooperation (180 millions)
 - “Horizontal” support actions and measures not carried out in the *Cooperation or People (3 countries)*

EU-Buero BMBF



Thank you for your attention!

<http://www.eubuero.de/eubuero>