

Verbindung und Interoperabilität von Sicherheitssystemen im Bereich kritischer Infrastrukturen für Transport und Energie sein.

Detaillierte Informationen zu den in den beiden Aufrufen ausgeschriebenen Forschungsaufgaben sowie zu den Aufrufen selbst bietet das Arbeitsprogramm „Sicherheit“ für 2007, das auf <http://cordis.europa.eu/fp7/calls/> zur Verfügung steht.

Es gibt vier Anhänge zum Arbeitsprogramm:

Anhang 1 ist eine Liste der Partnerländer der Internationalen Zusammenarbeit.

Anhang 2 definiert die Zulässigkeitskriterien für Projektvorschläge und die Kriterien zur Vorschlagsbegutachtung.

Anhang 3 bestimmt die Formen der Zuwendung und die Höchstförderquoten für Projekte, die durch das Arbeitsprogramm "Zusammenarbeit" gefördert werden.

Anhang 4 stellt eine Reihe von Aktivitäten vor, die themenübergreifend im gesamten Programm gefördert werden. Das CORDIS-Portal (Forschungs- und Entwicklungsinformationsdienst der Gemeinschaft) stellt Dienste zur Verfügung, um die Verbreitung von Wissen und die Nutzung von Forschungsergebnissen zu fördern. Außerdem enthält das Portal die gesamte Dokumentation zu den Aufrufen zur Einreichung von Projektvorschlägen. Die zweite Aktivität ist das ERA-NET-Schema, das die Stärkung und Koordinierung nationaler und regionaler Forschungsprogramme zum Ziel hat. Der Anhang beschreibt einen Aufruf zur Einreichung von Projektvorschlägen für ERA-NET und ERA-NET Plus zu bevorzugten Einzelthemen in den zehn Kapiteln des Arbeitsprogramms "Zusammenarbeit". Der Aufruf enthält auch Unterstützung für Vorschläge, die themenübergreifend sind oder die nicht direkt an die zehn Themen gebunden sind. Finanzielle Unterstützung werden auch die ERA-NET-Plus-Aktivitäten unter EURAMET und BONUS erhalten, um die Lücke zwischen bisherigen ERA-NET-Aktivitäten im Bereich des Messwesens und der Ostseeforschung und den in diesen Bereichen vorgesehenen Initiativen nach Artikel 169 zu überbrücken. Das Programm "Zusammenarbeit" wird auch Unterstützung für COST und für wachsende Synergie mit EUREKA bereitstellen. Schließlich sind auch alle Einzelheiten der Gemeinschaftsunterstützung an die Europäische Investitionsbank zur Schaffung der Einrichtung zur Teilung Finanzieller Risiken (RSFF) beschrieben. Die RSFF ist ein Finanzinstrument zur Unterstützung der Privatinvestitionen in Forschung, technische Entwicklung, Demonstration und Innovation.

MEMORANDUM TO THE COMMISSION

Adoption of a provisional work programme in the framework of the Specific Programme: 'Cooperation' for research, technological development and demonstration

- (1) The Commission has put forward a proposal for a Decision of the European Parliament and the Council concerning the 7th Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)¹, (below 7th Framework Programme), a proposal for a Council Decision concerning the Specific Programme: 'Cooperation' implementing the 7th Framework Programme (2007-2013) of the European Community for research, technological development and demonstration activities² (below the Specific Programme 'Cooperation') and a proposal for a Regulation of the European Parliament and of the Council laying down the rules for the participation of undertakings, research centres and universities in actions under the Seventh Framework Programme and for the dissemination of research results (2007-2013), (below the Rules for Participation)³, all together below called the 'FP7 Package'.
- (2) Pursuant to Article 5(4) of the proposed Council Decision, the Rules for Participation shall apply to the Specific Programme 'Cooperation'.
- (3) In accordance with Article 6(1) of the proposed Council Decision, the Commission shall draw up the work programme for the implementation of the Specific Programme 'Cooperation', setting out in greater detail the objectives and scientific and technological priorities as set out in Annex I of the same Council Decision and the timetable for implementation. Pursuant to Article 6(2) of the proposed Council Decision, the work programme has to take account of relevant research activities carried out by the Member States, Associated States and European and international organisations, and it shall be updated as and where appropriate. The parts of Annex I, which are not addressed at this stage, will be addressed in subsequent updates to the work programme.
- (4) The committee to be established under Article 8(1) of the proposed Council Decision has not yet been consulted for its opinion on the proposed work programme, but it has been subject to the positive opinion of an ad hoc expert committee consisting of representatives of the Member States. This work programme is, therefore, provisional in order to allow publication of calls for proposals.
- (5) The work programme and the content of the calls for proposals should be confirmed or, as the case may be, confirmed with adjustments, by the Commission after the 'FP 7 Package' has entered into force, whereby it should be verified that the procedures for the adoption and the content of the work programme fully comply with the 'FP7

¹ COM (2006)...

² COM (2006)...

³ COM (2006).....

Package'. This confirmation should be made before the date of closure of the calls and before a fixed time otherwise the work programme will automatically be considered as null and void. A disclaimer of the provisional nature of the work programme should be made public and attached to the calls for proposals setting out the provisional nature of the work programme and that this provisional nature of the call shall not give rise to any claim against the Commission.

- (6) Anticipating the adoption and the entry into force of the 7th Framework Programme, the Specific Programme 'Cooperation' and the Rules for Participation, the Commission should adopt a provisional work programme in order to allow the publication of calls for proposals.
- (7) **The Commission is hereby requested to adopt the provisional work programme of the Specific Programme: 'Cooperation' for research, technological development and demonstration activities.**

Draft

COMMISSION DECISION

of [...]

concerning the adoption of a provisional work programme in the framework of the specific programme: 'Cooperation' to implement the 7th Framework Programme (2007-2013) of the European Community for research, technological development and demonstration activities

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Whereas:

- (1) The Commission has put forward a proposal for a Decision of the European Parliament and the Council concerning the 7th Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)¹, (hereafter 7th Framework Programme), a proposal for a Council Decision concerning the Specific Programme: 'Cooperation' implementing the 7th Framework Programme (2007 to 2013) of the European Community for research, technological development and demonstration activities² (hereafter the Specific Programme 'Cooperation') and a proposal for a Regulation of the European Parliament and of the Council laying down the rules for the participation of undertakings, research centres and universities in actions under the 7th Framework Programme and for the dissemination of research results (2007 to 2013), (hereafter the Rules for Participation)³.
- (2) Anticipating the adoption and the entry into force of the same Decisions and Regulation, it is necessary to adopt a work programme in order to allow the publication of calls for proposals.
- (3) Following the intention of the Council Decision, the Commission should adopt a work programme for the implementation of the Specific Programme 'Cooperation', setting out in greater detail the objectives and scientific and technological priorities as set out in Annex I of the same Decision, and the timetable for implementation.

¹ COM(2006)...

² COM(2006)...

³ COM(2006)...

- (4) The work programme has been subject to the positive opinion of an ad hoc expert committee consisting of representatives of the Member States but not yet subject to the opinion by the Committee to be established under Article 8(1) of the proposed Council Decision adopting the Specific Programme 'Cooperation'.
- (5) The work programme and the content of the calls for proposals should be confirmed or, as the case may be, confirmed with adjustments, after the 7th Framework Programme, the Specific Programme 'Cooperation' and the Rules for Participation have entered into force. This confirmation should be made before the date of closure of the call. A disclaimer of the provisional nature of the work programme should be made public and attached to the calls for proposals.
- (6) This Decision intends to allocate, for 2007, EUR 3612 million from budget lines 08.02.01; 08.03.01; 08.04.01; 08.05.01; 08.06.01; 08.07.01; 08.08.01; 08.09.01; 06.06.01; 06.06.02; 09.04.01; 02.04.01; 02.04.02. The financing decision in the sense of Article 75 of the Financial Regulation will be established when the work programme is confirmed.

HAS *DECIDED AS FOLLOWS:*

Article 1

The provisional work programme in annex concerning the Specific Programme 'Cooperation' is hereby adopted.

Article 2

The provisional work programme shall be confirmed or, as the case may be, confirmed with adjustments after the 7th Framework Programme and the Specific Programme 'Cooperation' have entered into force. This confirmation shall be made at the latest by 1/03/2007, otherwise the provisional work programme shall be automatically considered as null and void.

Calls for proposals shall bear a clear disclaimer informing about the provisional nature of the work programme, setting out the timescale for the confirmation and that the provisional nature shall not give rise to any claim against the Commission.

Done at Brussels, [...]

For the Commission

[...]

Member of the Commission

Cooperation Work Programme 2007

Summary of Contents

GENERAL INTRODUCTION

The work programme provides additional details of the implementation of the Cooperation Specific Programme, setting out information on the priorities, objectives and policy relevance of the research topics which will be implemented through calls for proposals in 2007.

The work programme is divided into ten chapters, which set out the implementation of the research Themes. Each chapter is self-standing, but applicants are advised to read the general introduction and the Annexes, in addition to the chapter(s) of specific interest to them.

In preparing the work programme, the Commission has relied on advice gained through a wide range of consultation mechanisms, including through the European Technology Platforms and specifically constituted advisory groups. The work programme was adopted by the Commission with the assistance of the Programme Committee.

The Cooperation work programme also incorporates cross-Thematic and pluri-disciplinary research, addressed at the research topic level, or where appropriate, through coordinated and/or joint calls for proposals. The work programme also has been designed to be responsive to the changing needs of European industry and policy makers. Specific research topics of interest to, or specifically targeted at SMEs, are highlighted in each Theme. The work programme will encourage activities to promote greater public engagement in research and science policy, and the greater dissemination and use of research results. All research carried out in this work programme must respect fundamental ethical principals.

The coordination of non-Community research programmes is an important part of the development of the European Research Area. Actions foreseen in the Cooperation work programme make use of two specific approaches: the ERA-NET scheme; and the participation of the Community in the jointly implemented national research programmes (through Article 169 of the Treaty).

International cooperation is foreseen in two ways: through the participation of third country partners in consortia submitting proposals for the research topics listed in the Themes; and through specific international cooperation actions in each Theme.

The Community will provide a contribution, through the Cooperation programme, to the European Investment Bank to a Risk Sharing Finance Facility, a financing instrument aiming to foster private sector investment in research technological development and demonstration and in innovation.

Proposals should be submitted in accordance with the terms set out in the call for proposals as announced in the Official Journal and published on the CORDIS website. Evaluation of proposals will be carried out in accordance with the procedures set out in the document:

THEME 1: HEALTH

Objective

Improving the health of European citizens and increasing the competitiveness and boosting the innovative capacity of European health-related industries and businesses, while addressing global health issues including emerging epidemics. Emphasis will be put on translational research (translation of basic discoveries into clinical applications including scientific validation of experimental results), the development and validation of new therapies, methods for health promotion and prevention including promotion of child health, healthy ageing, diagnostic tools and medical technologies, as well as sustainable and efficient health care systems.

Policy context

This Theme will stimulate and sustain multidisciplinary basic biomedical research where large scale collaboration at the EU level is essential to exploit the full potential of post-genomic information to underpin applications to human health. In line with the European strategy on life sciences and biotechnology¹ and the Lisbon objectives, this theme will help increase the competitiveness of European health care biotechnology and medical technology sectors where research intensive SMEs are the main economic drivers and pharmaceutical industries. Furthermore, it is envisaged to support a Joint Technology Initiative for Innovative Medicines, aiming to overcome the research bottlenecks in the drug development process, in line with the recommendations made to improve the competitiveness of the European-based pharmaceutical industry².

This Theme will reinforce health policy-driven research at the European level and in particular through benchmarking, comparisons and analysis of models, systems and data of national databases, will generate new knowledge to underpin informed policy decisions on the efficiency and responsiveness of health care systems in Europe, and more effective strategies in health promotion, disease prevention, diagnosis and therapy. Furthermore it will provide the scientific evidence needed to support the objectives of the proposed new Programme of Community Action in the field of Health (2007-2013)³. Scientific support will be provided also for the new regulatory framework for advanced therapies⁴, for development of alternatives to animal testing in biomedical research⁵, for the Regulation on orphan medical products⁶ as well as for the proposed Regulation on medicinal products for paediatric use⁷.

¹ http://ec.europa.eu/biotechnology/index_en.htm

² G10 Medicines Report published on 7 May 2002. <http://ec.europa.eu/enterprise/phabiocom/p9.htm>

³ Commission Proposal COM(2006) 234

⁴ Commission proposal for a Regulation on advanced therapy medicinal products and amending Directive 2001/83/EC and Regulation (EC) No 726/2004. COM(2005) 567 final of 16.11.2005.

⁵ Refining, Reducing and Replacing animal use. This activity contributes directly to the aims of the Directive 86/609/EEC on the approximation of laws, regulations and administrative provisions of the Member States regarding the protection of animals used for experimental and other scientific purposes.

⁶ EC Regulation 141/2000

⁷ Commission Proposal COM(2005)577

This Theme will contribute to international efforts addressing global health problems, such as anti-microbial resistance⁸, HIV/AIDS, malaria, tuberculosis and emerging pandemics. In particular it supports the European and Developing Countries Clinical Trials Partnership (EDCTP) programme which focuses on advanced-clinical testing for the development of new vaccines, microbicides and drugs against HIV/AIDS, malaria and tuberculosis in sub-Saharan Africa. In addition, Specific International Cooperation Actions (SICA) will be implemented in the areas identified through bi-regional dialogues with third countries/regions on the basis of mutual interest and mutual benefit and some of the actions will contribute to the UN Millennium Development Goals.

Approach

The work programme describes the research topics in which project proposals can be submitted in response to the first two calls for proposals with deadlines in 2007. The first call (deadline in April) will commit the 2007 budget. The second call (deadline in September) will require approval of the 2008 budget. The content of the selected research topics reflects the input received from different sources, such as the Advisory Group for the Health Theme, the Programme Committee and various scientific conferences and workshops in the sector. In addition, the work programme also takes into account the activities launched in FP6.

The work programme will be implemented through a range of funding schemes as specified in the description of each topic⁹. In addition, some activities may be taken forward through public procurement procedures (calls for tenders). For all calls of this work programme, there will be competition between topics on the basis of the quality of the proposals. This means that some topics may not be supported and that some topics may get more than one proposal funded.

Aside from the topics under heading "Alternatives to animal testing", the area dedicated to "Predicting suitability, safety and efficacy of therapies" is expected to be implemented entirely through the Joint Technology Initiative for Innovative Medicines. No activity is planned for this Joint Technology Initiative in 2007 but a road map will be developed in view of starting the first set of activities in 2008, as identified in the strategic research agenda developed by the related European Technology Platform¹⁰.

Coordination of national and regional research programmes will be supported through one strategically important specific topic on cancer which will be subject to a joint call for ERA-NETs across the Themes. Synergy and complementarity are ensured with the other Themes dealing with the health sector as well as with the activities for research infrastructures under the Capacities programme.

In this work programme, particular attention is given to two strategic issues, child health, and the health of the ageing population, which will be addressed by specific topics throughout the Theme. In addition, all projects funded under this Theme should take into consideration the research aspects related to these issues, whenever appropriate.

⁸ Support the "Community Strategy against Antimicrobial Resistance"

⁹ For Small or medium-scale focused research projects EC contribution is up to € 3 million unless otherwise indicated in the topic description, for Large-scale integrating projects and Networks of Excellence EC contribution is from € 6 million up to € 12 million unless otherwise indicated in the topic description.

¹⁰ http://ec.europa.eu/research/fp6/index_en.cfm?p=1_innomed

Inclusion of SMEs is encouraged throughout the Theme and in particular in certain specific topics targeted to SMEs which are highlighted in the work programme. International cooperation with participants from third countries is supported and encouraged throughout the Theme, and all topics are open for third country participation. In addition, a series of "Specific International Co-operation Actions" (SICA) is dedicated to international co-operation with partners from International Cooperation Partner Countries (ICPC) on the basis of mutual benefit.

A wide dissemination and use of the research results will be supported through the integration of dissemination and knowledge transfer actions within projects, specific dissemination actions and initiatives to foster dialogue and debate on scientific issues and research results with a broader public beyond the research community.

Ethics has a special relevance as issues such as research with human beings (clinical trials in adults and children), use of human embryonic stem cells¹¹, use of biological materials of human origin and research with animals will be dealt in this Theme. All applicants will be requested to address the potential ethical aspects of the proposed research regarding its objectives, the methodology and the possible implications of the results. A balanced representation of women and men at all levels in research projects is encouraged.

Activities

Activity 1, "Biotechnology, generic tools and medical technologies for human health", aims at developing and validating the necessary tools and technologies that will make possible the production of new knowledge and its translation into practical applications in the area of health and medicine. Research areas cover High-throughput research, Detection, diagnosis and monitoring, Predicting suitability, safety and efficacy of therapies and Innovative therapeutic approaches and interventions.

Activity 2, "Translating research for human health", aims at increasing knowledge of biological processes and mechanisms involved in normal health and in specific disease situations, to transpose this knowledge into clinical applications including disease control and treatment, and to ensure that clinical (including epidemiological) data guide further research. Sub-activities include Integrating biological data and processes through large-scale data gathering and systems biology, Research on the brain and related diseases, human development and ageing, Translational research in major infectious diseases to confront major threats to public health, and Translational research in other major diseases.

Activity 3, "Optimising the delivery of health care to European citizens" aims at developing new research methods and generating the necessary scientific basis to underpin informed policy decisions on health systems and more effective and efficient evidence-based strategies of health promotion, disease prevention, diagnosis and therapy. Sub-activities cover Translating the results of clinical research outcome into clinical practice including better use of medicines, and appropriate use of behavioural and organisational interventions and new health therapies and technologies, Quality, efficiency and solidarity of health care systems including transitional health systems, Enhanced health promotion and disease prevention, and

¹¹ The Commission will maintain the practice of the Sixth Framework Programme, which excludes from Community financial support, research activities destroying human embryos, including for the procurement of stem cells. The exclusion of funding of this step of research will not prevent Community funding of subsequent steps involving human embryonic stem cells.

Specific international cooperation actions for health system research. The principal target users of new knowledge include the Directorate-General for Health and Consumer protection and the Directorate-General for Employment, Social Affairs and Equal Opportunities, Member States (Health Ministries and Public Health Institutes), WHO, OECD, as well as clinicians, service providers, patients and other stakeholders.

Activities across the Theme foresee support for small projects which contribute to the implementation of the Framework Programmes and the preparation of future Community RTD policy as well as actions responding to specific EU policy needs related to paediatric medicinal products, drug safety research, living and work conditions and health statistics.

THEME 2: FOOD, AGRICULTURE AND FISHERIES, AND BIOTECHNOLOGY

Objective

Building a European *Knowledge Based Bio-Economy*¹² by bringing together science, industry and other stakeholders, to exploit new and emerging research opportunities that address social, environmental and economic challenges: the growing demand for safer, healthier, higher quality food and for sustainable use and production of renewable bio-resources; the increasing risk of epizootic and zoonotic diseases and food related disorders; threats to the sustainability and security of agricultural, aquaculture and fisheries production; and the increasing demand for high quality food, taking into account animal welfare and rural and coastal contexts and response to specific dietary needs of consumers.

Policy context

Renewable biological resources are the basis of a European knowledge based bio-economy (food, feed, agriculture, forest-based, fisheries, aquaculture, biochemistry, etc.) that today has an estimated annual turn-over of more than €1500million. The increasing demand for biological resources, both in quantity and quality, can only be met through innovation and advancement of knowledge in the sustainable management, production and use of these biological resources. This programme brings together all relevant actors to develop the basis for new, sustainable, safer, affordable, eco-efficient and competitive products. In line with the European strategy on life sciences and biotechnology and the Lisbon objectives, this will help increase the competitiveness of European agriculture and biotechnology, in particular through high technology SMEs, while improving social welfare and well-being and reducing environmental footprints.

The research will also provide the knowledge-base needed to support the Common Agricultural Policy; the Common Fisheries Policy; the EU Forest Strategy and the Forestry Action Plan; agriculture and trade issues; the Community Animal Health Policy; safety aspects of GMOs; and the Development Policy. Research into the safety of food and feed chains, diet-related diseases, food choices and the impact of food and nutrition on health will help to fight diet-related disorders and infectious diseases, while making important contributions to the implementation of existing, and the formulation of future, policies and

¹²

The term "bio-economy" includes all industries and economic sectors that produce, manage and otherwise exploit biological resources and related services, supply or consumer industries, such as agriculture, food, fisheries and other marine resources, forestry, etc.

regulations in the area of public, animal and plant health and in consumer protection. Research into non-food applications of biological resources will support objectives of the Environmental Technology Action Plan (ETAP), as well as the biomass action plan and the European biofuel strategy.

Approach

This work programme describes the research topics for the calls for proposals launched in December 2006. It provides, for each topic, a description of the technical content and scope of the research, any specific participation requirements and the related expected impact. Two main calls will be open in 2007: The first call (Call 1) will use the 2007 budget and the second call (Call 2A) will use part of the 2008 budget: the remaining 2008 budget will be used for Call 2B, which will be published in the 2008 work programme.

The Theme 2 work programme is focussed around three principal activities: "Sustainable Production and Management of Biological Resources from Land, Forest and Aquatic Environments"; "Fork to Farm: Food (including seafood), health and well being" and "Life Sciences, biotechnology and biochemistry for sustainable non-food products and processes". All three activities and all areas within these activities are open in calls 1 & 2A. In view of the wider scope of this theme as compared to thematic priority 5 "Food quality and safety" of the sixth Framework Programme (FP6) and the more limited financial resources available in the first few years of the seventh Framework Programme (FP7), the focus is on topics that a) cover new areas, as compared to FP6, or b) are a necessary continuation or follow-up of previously funded European projects, and/or c) are of high priority and European added value in terms of recent policy developments. There will be a strong focus in Call 1 on (i) small collaborative projects, (small to medium scale focused research actions) where needs in terms of competitiveness or policy support are more tangible and targeted and where clear impacts can be achieved through shorter term projects, and (ii) on small preparatory actions (Coordination & Support Actions – CSA), which will, *inter alia*, identify and lay the ground for priority actions in later calls. All proposals, including large collaborative projects, (large scale integrating projects) and Networks of Excellence will be evaluated under the one-stage procedure in Call 1. Call 2A covers exclusively large collaborative projects and Networks of Excellence, which will be evaluated through a two-stage submission procedure.

The content of the research topics selected for the calls in 2007 is based on input received from the Advisory Group and the Programme Committee of this theme, the Standing Committee for Agricultural Research (SCAR) & the Advisory Committee for Fisheries and Aquaculture (ACFA), on external inputs from the research community and interested organisations¹³, expert workshops, outputs from conferences, studies, analysis of ongoing research, policy needs, and the strategic research agendas (SRA) of the European Technology Platforms¹⁴ relevant to Theme 2. A significant part of this theme provides research in support to policy, the topics of which have been identified in cooperation with the relevant policy directorates of the Commission.

The work programme of this theme is designed to attract industrial participants, in particular SMEs. International cooperation with participants from third countries is supported and

¹³ Amongst others the European Food Safety Authority, the International Council for the Exploration of the Sea – ICES, the European Fisheries & Aquaculture Research Organisations – EFARO.

¹⁴ Plants for the Future; Sustainable Farm Animal Breeding and Reproduction; Global Animal Health; Food for Life; Forest-based Sector; Biofuels; the Industrial Biotechnology section of the Sustainable Chemistry Platform

encouraged throughout all areas, and all topics are open to cooperation with third countries. In addition, a series of "Specific International Co-operation Actions" (SICA) is dedicated to international co-operation with partners from International Cooperation Partner Countries (ICPC) on the basis of mutual benefit, problems of shared interest, or that third countries face or that have a global character. As bio-, nano- and information technologies have an interdisciplinary character, they contribute to different industrial sectors and policy objectives. Synergy and complementarity are apparent amongst the activities described in the work programme under its various themes when technologies, industrial sectors or policies covered by one theme build on technologies or contribute to industrial or policy objectives of another theme (such as health, environment, energy and transport). The dissemination and transfer of knowledge is a key added value of European research actions, and consortia are expected to propose appropriate measures to increase the use of results by industry, policy makers and society. Experts in ethics, law, economy and social sciences are encouraged to participate actively in research projects, and this trans-disciplinary collaboration is expected to ensure that due account is taken of the ethical and societal concerns, our obligations towards future generations and the rest of the world as well as the potential economic impact at the earliest possible stage of new developments arising from the research. An equal representation of women and men at all levels in research projects is encouraged.

Activities

Within activity 2.1, "*Sustainable production and management of biological resources from land, forest and aquatic environments*" topics call for work on enabling research in genomics and genetics in animals and plants and the development of sustainable production systems for of animals and crops, including for forestry, aquaculture and fisheries. Topics have a strong focus on environmental sustainability, for example control of nitrate production and of pesticides. In addition, topics are open for research into low-input and organic animal production, improved animal breeding and the control of zoonotic and epizootic animal diseases, including neglected and emerging diseases. Finally within this activity, topics examine the development of the KBBE, technology transfer, GMO co-existence and developments in farming. A range of topics in support of policies of the Directorates General for Agriculture, Fisheries, Health and Consumer Protection and the Environment, including policy relevant to the reform of the CAP, to the CFP and to the Community Action Plan on the Protection and Welfare of Animals 2006-2010, are also open in call 1.

Within activity 2.2, "*Fork to farm: Food (including seafood), health and well being*" topics call for work on consumer science in relation to the development of tools and networks and on analysing consumer behaviour. In addition, topics cover the effects of diet on mental performance, ageing, malnutrition and allergy; improved food processing technologies and food quality and safety, including the research on the monitoring of chemicals and pathogens in the food chain. Finally within this activity, environmental impacts of the food chain addresses the effects of GMOs on human and animal health and the application of new technologies in monitoring environmental impacts.

Within activity 2.3, "*Life Sciences, biotechnology and biochemistry for sustainable non-food products and processes*" topics cover the development of non-food uses from biomass, production of structural materials and of oils and pharmaceuticals from plant systems, and the regulatory aspects of non-food crop production. Further topics address bioprocessing, including novel production methodologies for cellulose and bioethanol, lipid enzymology, microbial genomics and bioinformatics. Finally in this section, environmental biotechnology calls for research into bioremediation for environmental contamination and the novel processing of animal wastes.

In addition the work programme calls for the establishment of a network of National Contacts Points, contributes to the Risk Sharing Finance Facility and foresees support for small projects to measure the impacts of research carried out under previous research programmes.

THEME 3: INFORMATION AND COMMUNICATION TECHNOLOGIES

Objective

Improving the competitiveness of European industry and enabling Europe to master and shape future developments in ICT so that the demands of its society and economy are met. ICT is at the very core of the knowledge-based society. Activities will strengthen Europe's scientific and technology base and ensure its global leadership in ICT, help drive and stimulate product, service and process innovation and creativity through ICT use and ensure that ICT progress is rapidly transformed into benefits for Europe's citizens, businesses, industry and governments. These activities will also help reduce the digital divide and social exclusion.

Policy context

Today Europe faces an urgent need to reshape its economy and society to meet the challenges of the 21st Century. We must realise higher economic growth through improved competitiveness and productivity, whilst ensuring a sustainable future¹⁵. We have to adjust to the changing economic realities brought about by the globalisation of markets and the ever-faster pace of technological change. At the same time, we have to modernise our public services and tackle emerging challenges in areas such as health, ageing, inclusion, energy efficiency, safety and security.

Information and communication technologies (ICT) play a unique, proven role in fostering innovation, creativity and competitiveness of all industry and service sectors. They are essential for addressing key societal challenges and modernising public services and they underpin progress in all science and technology fields. Europe must therefore master and shape the future developments of ICT and ensure that ICT-based services and products are taken up and used to deliver the maximum possible benefits for citizens and businesses.

New ICT technologies will open up many new opportunities for higher-value products and services, many of which are in areas where Europe already enjoys industrial and technological leadership. Increasing competition on a global scale gives Europe no other choice than to

¹⁵ Cf. the renewed sustainable development strategy; see European Council: Austrian Presidency Conclusion: 16th June 2006 http://ec.europa.eu/sustainable/sds2006/index_en.htm

mobilise its resources to attract both investment in ICT research and development and the best researchers to its public and private labs. Europe has great knowledge and industrial assets. It has one of the world's largest markets. It should be a leader and be a first choice for ICT research and development and it has the capacity to do so. One of the key objectives of the i2010 initiative¹⁶, that sets the strategic framework for ICT policies in the Union, is to achieve "world class performance in research and innovation in ICT by closing the gap with Europe's leading competitors". More than ever before, partnering at European level is needed to keep pace with soaring research costs in an era of global competition, and increasingly complex and interdependent technologies.

Approach

The ICT theme in FP7 offers a stable (seven years) framework for collaboration and partnership building in ICT research. It builds on the successes of previous Community RTD programmes in this field that have enabled European industry to lead in world markets. The Work Programme seeks to strike the right balance between continuous support to Europe's industrial and technology strongholds and promoting areas where new opportunities are arising for Europe.

In ICT, SMEs play a vital role in the development of new visions and in transforming them into business assets. The ICT work programme provides major opportunities for SMEs to finance high-risk, early-stage research and development, to build strategic partnerships and to operate outside their local markets with higher value innovative products and services.

The programme will support social and economic research to create a better understanding of trends and impacts at the level of society and of the economy, including the global economy. This will complement assessments of the impact of individual projects, help assess the impact of the ICT programme as a whole, and support impact assessments of specific policy options.

The external dimension of the programme aims at supporting European competitiveness through research partnerships with third countries and at addressing issues of common interest and mutual benefit in support of other EU policies, in particular development policies.

Achieving the best possible impact for Community support requires focusing and concentrating effort on key RTD challenges. The Work Programme proposes a structure around seven challenges that should be addressed if Europe is to be among the world leaders in next generation ICT and their applications. The challenges are driven either by industry and technology objectives or by socio-economic goals. The priorities are faithful to the FP7 Framework Programme and Specific Programme decisions, in line with the main ICT policy priorities and reflect the input received from the Programme Committee and Advisory Group, the European Technology Platforms and a series of detailed consultations with the main stakeholders.

Activities

The seven challenges identified in the ICT work programme can be divided into two groups:

- a) Overcoming technology roadblocks and reinforcing Europe's industrial strengths

¹⁶ "i2010 – A European Information Society for growth and employment, COM(2005) 229

For European industry to be among the leaders in ICT in the next ten years, our researchers and engineers have to master three ICT challenges. These have been identified in particular with the help of the ETPs in ICT and are as follows:

- Challenge 1: The converged communication and service Infrastructure that will gradually replace the current Internet, mobile, fixed and audiovisual networks.
- Challenge 2: The engineering of more robust, context-aware and easy-to-use ICT systems that self improve and self-adapt within their respective environments.
- Challenge 3: The increasingly smaller, cheaper, more reliable and low consumption electronic components and systems that constitute the basis for innovation in all major products and service.

b) Seizing new opportunities and applying ICT to address Europe's socio-economic challenges

Four challenges for ICT research are driven by socio economic goals and are in line with the flagship initiatives of i2010:

- Challenge 4: Digital libraries, knowledge and content development tools and applications that will help us preserve, develop and disseminate our cultural assets, improve our learning and education systems and strengthen the creativity of our society.
- Challenge 5: ICT tools for sustainable Health systems enhancing our ability to monitor our health and well-being and to treat major illnesses and diseases.
- Challenge 6: Intelligent and safe vehicles and technologies environmental sustainability and energy efficiency that are key requirements of our citizens.
- Challenge 7: ICT systems and applications for better inclusion and independent living of all citizens.

In addition to the seven Challenges, a Future and Emerging Technologies activity will continue to foster trans-disciplinary research excellence in emerging ICT-related research domains. This activity is divided into a continuously open call “FET Open” and 6 specific themes under “FET Proactive”.

The ICT scheme also participates in a Joint call with the Security theme for Critical Infrastructure Protection. The work programme also calls for the establishment of a network of National contact Points and contributions to the Risk Sharing Finance Facility.

THEME 4: NANOSCIENCES, NANOTECHNOLOGIES, MATERIALS AND NEW PRODUCTION TECHNOLOGIES – NMP

Objective

Improve the competitiveness of European industry and generate knowledge to ensure its transformation from a resource-intensive to a knowledge-intensive industry, by creating step changes through research for new applications at the crossroads between different technologies and disciplines. This will benefit both new, high-tech industries and higher-value, knowledge-based traditional industries, with a special focus on the appropriate

dissemination of RTD results to SMEs. NMP activities deal primarily with enabling technologies which impact all industrial sectors and many other FP7 Themes.

Policy context

Theme 4 covers RTD concerning the entire industrial activity and thus the largest share of Europe's economic output. Thus, RTD results will be instrumental in achieving the objectives of global EU policies such as those of Lisbon, Göteborg and Barcelona. Furthermore, they will strengthen the European Research Area and will implement the European Action Plan on Nanotechnologies, a domain emerging as a key enabler for knowledge-intensive, added-value sustainable growth. Multidisciplinarity is a key characteristic and challenge of the NMP Programme due to the wide range of industrial sectors covered, the large spectrum of RTD domains aiming at strategic industrial transformation, and the integration of the sustainability's dimension.

The core activity of this Theme is to fund research, development, demonstration, and coordination projects that will effectively contribute to address the challenges imposed by the new industrial revolution and competition at global level. This transformation of European industry is essential in order to produce, in a sustainable manner, high added value products. This is essential to stop the relocation of European industry and also create new industries, and hence growth and employment.

Approach

NMP ensures continuity with previous programmes and it has evolved on the basis of the acquired experience and of the challenges imposed by the needs of European industry. A key issue will be to integrate competitiveness, innovation and sustainability into the research activities covered by the Theme as well as initiatives capable of fostering the dialogue with society at large. Due account has been taken of the Strategic Research Agendas (SRAs) of the several European Technology Platforms (ETPs). Research will be complemented by activities aimed at education, and skills development. It will also address more long-term issues underlying many technology fields. The design of the work programme has evolved through a close interaction with the Programme Committee, the Expert Advisory Group and International fora of stakeholders.

Theme 4 is structured as follows:

- a) Three thematic activities, Nanosciences and Nanotechnologies, Materials and new Production Technologies, each of which requires significant new RTD efforts to generate knowledge and integrate its different technologies for problem-solving approaches.
- b) A fourth activity of "Integration" as such, which aims at developing new applications and new approaches in all sectors of industrial activities and areas of application by combining research from the first three activities. This is a deliverable-driven integration to generate high added value products, with particular - but not exclusive - reference to industrial and regulatory needs and challenges identified with the ETPs.

In the long term, this Theme aims at capitalising on the enormous potential of nanosciences and nanotechnologies for the creation of a true knowledge-based industry and economy. Emphasis will be increasingly given to research helping to develop the S&T base, in particular in nanosciences, nanomaterials and nanomanufacturing. In the medium term, the focus is on a convergence of knowledge, technologies and skills drawn from different

disciplines, exploiting application-driven scientific and technological synergies. In both cases it will be essential to ensure the uptake of knowledge generated through effective dissemination and use of the results.

The NMP Theme is particularly relevant to SMEs of all industrial sectors and they are encouraged to participate in each and every call for proposals. In addition, dedicated calls for SME-targeted projects will be implemented in specific areas with the aim of reinforcing the scientific and technological base of SMEs and of validating innovative solutions. Efforts for an increased participation of women in research and integration of the gender dimension, whenever arises, will be made throughout the activity of this Theme.

The increasingly international dimension of industrial research requires a well-coordinated approach to working with third countries and in international forums. Participation of third countries is encouraged throughout the programme, while closer cooperation activities may take place when there is clear mutual benefit in terms of knowledge generation and market expansion.

Specific actions to coordinate programmes and joint activities conducted at national and regional level will also be carried out through *ad hoc* schemes (with particular reference to ERANET and ERANET-*plus*) so as to promote convergence of national research programmes, to reinforce critical mass and to create synergies with Member States and Associated States, COST and Eureka, as well as between the emerging European Technology Platforms. Industrial research will benefit from the coordination of activities in areas such as metrology, toxicology, standards and nomenclature.

Coordination with other Themes is envisaged due to the obvious links that exist between the cross-sectoral nature of Theme 4 – NMP and the other Themes of the 7th Framework Programme, in particular Health, Food, Safety, Space, ICT, Energy, Environment, Transports. Cross-thematic areas will be addressed through joint calls published with other Themes (not foreseen in 2007), thus ensuring that the same objectives are achieved and through coordinated calls so as to address complementary objectives. Synergy with the Specific Programme “Capacities” of the 7th Framework Programme will be put forward.

Funding Schemes: Budget allocation and calls will be decided on the basis of funding schemes and not of each specific activity. The calls will be announced for collaborative projects (large-scale projects, small-scale focused research projects and SME-targeted projects) and for Coordination and Support Actions (CSAs), while no topic is foreseen in 2007 for networks of excellence. Thresholds will be applied to (a) small or medium scale focussed research projects which must be limited to 4M€ of EU contribution and (b) large scale integrating projects which must go beyond that threshold. A total of 44 topics for 2007 will be spread over these funding schemes. Collaborative projects will address 33 topics, out of which 14 for large-scale projects, 13 small-scale focused research topics and six topics dedicated to SME-targeted projects. Furthermore, 11 CSAs, including one ERANET and one ERANET *plus*, will mostly cover issues associated to the implementation of the Nanotechnologies action plan.

The evaluation of proposals for Collaborative projects (including those dedicated to SMEs) and Networks of Excellence (not foreseen in 2007) will be organised in two stages. This approach reduces the costs of submitting proposals and the risk of over-subscription. The first stage proposal using a simplified form should focus on the S & T content and will be

evaluated on the basis of two criteria: "scientific quality" and "expected impact". Coordinators of retained proposals in stage 1 will be invited to submit a stage-two complete proposal that will be then evaluated against the same two criteria as above and a third one, "implementation".

The four activities of the programme

Nanosciences and Nanotechnologies constitute an integrative RTD approach with objectives (a) to generate new knowledge by studying phenomena and manipulation of matter at the nanoscale. Small-scale research focused topics are on mechanisms of bio/non-bio interactions and on self-assembling and self-organisation; (b) to promote innovation by developing nanotechnologies that will enable the manufacturing of new products and/or innovative delivery of services, with large-scale RTD topics on: pilot lines to upscale nano-based processes and on equipment and methods for nanotechnology, the latter topic being dedicated to SMEs. This area will also include research on potential ethical, public health, occupational safety and environmental protection implications, towards the societal acceptance of nanotechnology, with RTD topics on: portable devices for measurement and analysis (large-scale) and on the impact of nanoparticles on health and environment (small-scale). Furthermore, nine CSAs, including one ERANET *plus* (support to Member States' programmes in nanosciences) will cover a wide spectrum of studies, reviews, databases and coordination, mainly tackling the various dimensions linked with the implementation of the European Action Plan on Nanotechnologies (2005-2009).

In the area of **Materials**, research will focus on developing new knowledge-based, high added value multifunctional surfaces and materials with tailored properties and predictable performance, for new products and processes targeting a wide range of applications. It will use the potential of nanotechnologies and biotechnologies and will integrate the possibilities of every scientific domain or discipline. Research topics are evenly split between (a) small-scale research-focused RTD topics (coatings and thin films, tailored magnetic properties, architectures for energy conversion, catalysts with tailored functional surfaces, applications on packaging, modelling of microstructural evolution) and (b) large-scale RTD topics (composite materials, organic materials for electronics and photonics, tissue engineering, novel materials for extreme conditions and, finally, processing in polymers - a topic dedicated to SMEs.)

New production is a new approach for the transformation of EU industry from a resource intensive to a sustainable, knowledge-based industrial environment, including sustainable consumption patterns. This entails creating the appropriate conditions for continuous innovation and for developing generic production "assets" (technologies, organisation and production facilities, human resources, overall industrial safety, environmental requirements), eventually leading to "Factories made in Europe" with European standards. The research will focus on 10 topics distributed in five strands: (a) development and validation of new industrial models and strategies with three large-scale topics on: new models for products and process life cycle, risk management and user-centred products and services, the latter dedicated to SMEs; (b) adaptive production systems with two small-scale topics on rapidly reconfigurable machines and on process intensification in chemicals; (c) networked production with one small-scale topic on custom-driven product-service design; (d) rapid transfer and integration of new technologies with two topics on: innovative pathways in synthesis (small-scale) and on rapid manufacturing in small series (SME-dedicated); (e) exploitation of the convergence of

technologies with two large-scale topics on: production of 3-D nano-surfaces and on technologies and equipment for micro-manufacturing.

Integration of the three areas of research above for industrial applications will be covered in 2007 with seven RTD topics, all for large-scale projects. The research will focus on new applications and novel, step-change solutions responding to major challenges, including the RTD needs identified by the different ETPs: transforming the traditional industry, which faces the challenge of low-cost competition, with RTD topics on the industries of wood and textiles, the latter dedicated to SMEs; fostering scale-intensive and specialized suppliers industry through the adoption and integration of new advanced technologies, with one topic on future vehicles; promoting science-based new industries with one RTD topic on nanotechnology-based agents for diagnosis and therapy; towards a sustainable supply industry for sectors with a large environmental footprint, with 2 topics: on efficient and clean buildings and on added-value construction products and services, the latter dedicated to SMEs. An ERANET on construction will complete the efforts.

THEME 5: ENERGY

Policy context

As described in the Commission's Green Paper on a European strategy for sustainable, competitive and secure energy, Europe has entered into a new energy era. The new energy landscape of the 21st century is one in which the world's economic regions are dependent on each other for ensuring energy security and stable economic conditions, and for ensuring effective action against climate change.

Europe's energy economy, and that of the World, is currently on a pathway that is not sustainable. This must change. Set against the backdrop of a growing global demand for energy to power economic development and growth, we are faced with a huge challenge. Sustainable, competitive and secure energy has to become one of the basic pillars of our daily life.

Approach

The focus of the research and demonstration actions in this Work Programme (WP) will be on accelerating the development of cost-effective technologies for a more sustainable energy economy for Europe (and world-wide) and ensuring that European industry can compete successfully on the global stage. Adopting a broad technology portfolio, the research, development and demonstration carried out under this WP is expected to i.a. improve energy efficiency and the rate of penetration of renewable energy sources, to reduce carbon intensity of power generation and greenhouse gas emissions, and to diversify Europe's energy mix.

A common call with two parts will be published in 2007. One part, focusing on research with a longer term perspective, will cover the major part of the available budget for such activities for 2007 and 2008, whereas the other part, tackling research with a shorter term perspective and particularly demonstration actions will only cover the available budget for 2007. The calls will be implemented using Collaborative Projects and Coordination and Support Actions.

Due attention will be paid to ensuring there is effective coordination between the priority themes and to scientific areas which cut across themes. In particular, special consideration will be devoted to coordination of aspects linked to rational and efficient use of energy, both within the energy theme and across most of the other themes.

The drafting of this WP has been influenced by a wide variety of sources, including European Technology Platforms, Thematic Networks, Coordination Actions, project clusters, Advisory Groups, the Programme Committee and relevant policy documents.

In implementing the Work Programme, particular attention will be given to the following:

- **SME participation** in the Energy Theme will be actively encouraged and promoted. Following on from the work of the FP6 Economic and Technological Intelligence (ETI) projects, specific actions will bring together SME's in the energy sector.
- **International cooperation** will be implemented via two mechanisms, by opening of all activities of the Theme to researchers and research institutions from third countries, and by a series of "Specific International Cooperation Actions" (SICA), dedicated to international co-operation with partners from International Cooperation Partner Countries (ICPC).
- In order to nurture novel ideas and radically new uses and to explore new options in research roadmaps, in particular those with a potential for significant breakthroughs, research into **Future and Emerging Technologies (FET)** will be supported.
- Opportunities for proposals for new **ERA-Nets** in the energy field will be opened, following a strategic approach.
- Complementing actions in the Intelligent Energy-Europe (IEE) Programme component of the Competitiveness and Innovation Programme (CIP), the **dissemination of knowledge and transfer of results** will be supported.
- Opportunities for the integration of the **socio-economic dimension and societal concerns** occur throughout the work programme.

Activities in the work programme will be carried out according to fundamental ethical principles. A balanced representation of women and men at all levels in research projects is encouraged.

Activities

Within activity 5.1, "Hydrogen and Fuel cells" topics call for work on basic research on materials, design and processes in fuel cells, hydrogen supply and storage. Topics have a strong focus on Polymer Electrolyte Membrane, Solid oxide and Molten Carbonate Fuel Cells, on advanced electrolyzers, and also on novel nanostructured materials for hydrogen storage. In addition, a topic is open for pre-normative research to support EU and international regulatory activities. The 2007 WP is presented under the assumption that applied research and demonstration activities will be covered under the proposed Joint Technology Initiative (JTI) on hydrogen and fuel cells.

Within activity 5.2, "Renewable Electricity Generation" topics call for work on research, development and demonstration of integrated technologies for electricity production from renewables, suited to different regional conditions, in order to provide the means to raise substantially the share of renewable electricity production in the EU. Research should increase overall conversion efficiency, significantly drive down the cost of electricity, enhance process reliability and further reduce the environmental impact. Particular emphasis will be on photovoltaics, wind and biomass.

Within activity 5.3, “Renewable Fuel production” topics call for work on research, development and demonstration of improved conversion technologies for the sustainable production and supply chains of solid, liquid and gaseous fuels from biomass, in particular biofuels for transport. Emphasis should be on new types of biofuels as well as on new production and distribution routes for existing biofuels, including the integrated production of energy and other added-value products through biorefineries. Aiming to deliver ‘source to user’ carbon benefits, research will focus on improving energy efficiency, enhancing technology integration and use of feedstock. Issues such as feedstock logistics, pre-normative research and standardisation for safe and reliable use in transport and stationary applications will be included.

Within activity 5.4, “Renewables for heating and cooling” topics call for work on research, development and demonstration of a portfolio of technologies to increase the potential of heating and cooling from renewable energy sources to contribute to sustainable energy. The aim is to achieve substantial cost reductions, increase efficiencies, further reduce environmental impacts and optimise the use of technologies in different regional conditions. Research and demonstration should include new systems and components for industrial applications (incl. thermal seawater desalination), district and/or dedicated space heating and cooling, building integration and energy storage.

Within activity 5.5, “CO₂ capture and storage technologies for zero emission power generation” topics call for work on research, development and demonstration of technologies to drastically reduce the adverse environmental impact of fossil fuel use aiming at highly efficient and cost effective power and/ or steam generation plants with near zero emissions, based on CO₂ capture and storage technologies, in particular underground storage.

Within activity 5.6, “Clean coal technologies” topics aim to substantially improve plant efficiency, reliability and cost through research, development and demonstration of coal and other solid fuel conversion technologies, producing also secondary energy carriers (including hydrogen) and liquid or gaseous fuels. "Clean coal" in this context means a sustainable coal value chain with a focus on coal utilisation, i.e. coal use aiming at zero or significantly reduced emissions by means of enhanced plant efficiency and CO₂ capture and storage.

Activities 5.5 & 5.6, which in many ways are complementary activities, also have cross cutting topics which address power plant concepts, using fossil fuels, and aiming at zero emissions coupled with CO₂ capture and storage. Topics are also opened for regulatory and socio-economics issues covering both activities.

Within activity 5.7, “Smart energy networks” topics call for work on research, development and demonstration of key enabling technologies for electricity networks, including the development of new control and reliability tools for electricity for transforming the actual electricity grids into a resilient and interactive service network.

Within activity 5.8, “Energy efficiency and savings” topics call for work on the optimisation, validation and demonstration of new concepts and technologies for buildings, services and industry. This incorporates the combination of sustainable technologies and dynamic strategies for increased energy efficiency, the use of renewable energy and polygeneration and the integration of demand management systems at large scale in industry, cities and communities. These large-scale actions may be supported by innovative R&D

addressing specific components or technologies, e.g. industrial poly-generation and eco-buildings.

Within activity 5.9, "Knowledge for energy policy making" topics call for work on the development of tools, methods and models to assess the main economic and social issues related to energy technologies. Activities will include the building of databases and scenarios for an enlarged EU and the assessment of the impact of energy and energy-related policies on security of supply, environment, society and competitiveness of the energy industry.

Within activity 5.10, "Horizon programme actions" topics are opened that have a horizontal character, not related to any particular technology option, for example, the coordination of non-community research programmes, the establishment of a network of National Contacts Points and monitoring the expected impacts of SME's in FP7 projects.

In addition, the work programme foresees contributions to the Risk Sharing Finance Facility, support to the preparation of the JTI in hydrogen and fuel cells and to ensure active participation in the Implementing Agreements of the International Energy Agency. Calls for Tender are foreseen for public procurements, such as specific studies or services required to achieve the programme objectives.

THEME 6: ENVIRONMENT (INCLUDING CLIMATE CHANGE)

The objective of the Environment Theme is to promote sustainable management of the environment and its resources through advancing our knowledge on the interactions between the climate, biosphere, ecosystems and human activities, and developing new technologies, tools and services, in order to address in an integrated way global environmental issues. Emphasis will be put on prediction of climate, ecological, earth and ocean systems changes, on tools and on technologies for monitoring, prevention, mitigation of and adaptation to environmental pressures and risks including on health, as well as for the sustainability of the natural and man-made environment.

Policy context

Research under this Theme contributes to the implementation of relevant international commitments¹⁷, protocols¹⁸ and initiatives¹⁹ concluded by the European Union and Member States. In addition, it will support the research needs arising from existing and emerging EU environmental legislation and policies²⁰, and the implementation of the 6th Environmental Action Programme, associated thematic strategies²¹ and the action plans²². The renewed Sustainable Development Strategy, approved in June 2006, reaffirms the strong political

¹⁷ UN Framework Convention on Climate Change (UNFCCC), UN Convention on Biological Diversity, UN Convention on Combating Desertification, International Strategy for Natural Disaster Reduction

¹⁸ Kyoto and Montreal protocols

¹⁹ World Summit on Sustainable Development, Global Earth Observation System of System initiative (GEOS)

²⁰ Intergovernmental Panel on Climate Change (IPCC), EU Water Initiative, EU Water Framework Directive, European Climate Change Programme II

²¹ Thematic strategies on air pollution, pesticides, soil, waste, urban environment, marine environment and sustainable management of resources. Commission Communication on Halting the Loss of Biodiversity by 2010 (COM(2006)216). Green paper on Towards a Future Maritime Policy for the Union.

²² Environment and Health Action Plan (2004-2010) and Environmental Technologies Action Plan (ETAP)

willingness from the European Union to move into the sustainable path, where environmental protection goes hand in hand with economic prosperity and social cohesion. EU-wide cooperation is necessary because sustainable development is a common objective for countries, regions and cities and that critical mass and excellence are needed given the scale, scope and high level of complexity of environmental research and its connections to economy and society. Furthermore, wider international cooperation is necessary for the completion of knowledge and the promotion of better management at a global level.

The work programme is the result of a consultation process with the FP7 Advisory Group and research stakeholders; informal exchanges and spontaneous submissions by Member States, and ad hoc meetings with relevant Technology Platforms and Commission services.

Activities

The work programme is structured according to the four main activities of the Environment theme in the Cooperation Specific Programme: i.e. Climate change, pollution and risks; Sustainable management of resources; Environmental technologies; Earth observation and assessment tools.

Special attention has been given to those cross-thematic activities (environmental technologies, biodiversity, marine research and technologies, and assessment tools for sustainable development) that will contribute to the expectations and objectives of other thematic priorities.

Within Activity 6.1: "*Climate change pollution and risks*" research is needed at EU level to understand the causes, consequences and to predict future evolution of climate change, ozone depletion and other environmental changes and to devise appropriate mitigation and adaptation strategies. Climate Change is of growing public concern and an important political priority of the European Union.. Environment and Health research activities will focus on adverse health effects from exposure to environmental chemicals, air pollution and urban environment and climate change. For Natural Hazards it is necessary to consider a comprehensive framework using a multidisciplinary and integrated approach to assess Hazard, Vulnerability and Risk. Such an approach will support risk management and the development of prevention and mitigation strategies.

Within activity 6.2 "*Sustainable management of resources*", research will improve the knowledge bases and develop advanced models and tools needed for the sustainable management of resources (including water and soil), conservation of biodiversity and sustaining of ecosystem services in order to reduce the environmental impact of resource use. Special emphasis is given to improving our understanding of the impacts of human activities on the ocean and seas and on the resources of the marine environment, including the pollution and eutrophication of regional seas and coastal areas. Research activities in aquatic environments, deep sea ecosystems and seabed will be carried out in order to observe, monitor and predict the behaviour of this environment and enhance understanding of the sea and the sustainable use of ocean resources.

Within activity 6.3 "*Environmental technologies*", research will target several issues ranging from technologies for managing resources, reducing risks, monitoring, preventing or treating pollution more effectively, related to all environmental media (water, soil, air, sea etc) and wastes; to clean processes leading to the phasing out of dangerous substances; to technologies for sustainable management of the human and built environment, as well as for the

conservation and restoration of cultural heritage; to risk, performance assessment and testing of technologies, and further development of related methods. Priority will be given to innovative system solutions - aiming at closing the cycle of materials - which integrate front-end with in-process and end-of-pipe components within a coherent organisational (and institutional) framework, having the objective to decouple growth from resource depletion. Due consideration should be given to appropriate sustainability and Life Cycle assessments, eco-innovation and eco-efficiency indicators, market potential and exploitation barrier studies.

Within activity 6.4 *"Earth observation and assessment tools for sustainable development"*, "the Earth Observation" sub-activity puts a strong emphasis on the need to integrate the European Earth Observation related research activities into the global GEO initiative. Research activities will be focused on interoperability between observation systems, information management and data sharing, and optimisation of information for understanding, modelling and predicting environment phenomena. In the sub-activity "Assessment Tools for Sustainable Development", focus is put on improving tools for impact assessment at a disaggregated level; on the implications of EU budget scenarios and on the contribution of the co-operation and trade policies. Research will also seek to bridge mainstream indicators with sustainable development objectives. The development of links between the economy, environment and society will also be targeted in order to promote sustainable consumption patterns. Furthermore, civil society organisations are invited to build partnerships with research organisations thanks to an innovative funding scheme.

Implementation of the Work Programme:

This work programme describes the research topics for the calls for proposals launched in December 2006, with an indicative budget of 200 million Euros. It provides for each topic a description of the technical content and scope of the research, any specific participation requirements and the related expected impact.

All proposals will be evaluated under the one-step procedure in this Call. Particularly, in the case of large-scale integrating Collaborative projects and Networks of excellence up to one project will be retained per topic.

Overall, specific emphasis is given to horizontal issues such as international co-operation, emerging needs and policy relevant research, dissemination actions and SME targeted topics. The work programme is identifying specific international co-operation actions (SICA) covering all the activities. These actions will have an overall indicative budget of 24 million Euros. The policy relevant research topics are considered fundamental elements for environmental research and are referred to in all activities. The Theme is designed to attract industrial participants, namely within the areas of the Environmental Technologies activity. An innovative approach will encourage the participation of Civil Society Organisations.

The dissemination actions are to be implemented through the integration of dissemination and knowledge transfer actions within projects, and through specific dissemination actions. The work programme identifies ERA-NET actions on specific topics which have been received through the consultation phase and on which there seems to be clear demand in addition to the existing ones. The ERA-NET topics will be subject to a joint call that will be launched separately (FP7-ERANET-2007-RTD).

Detailed information concerning the topics open in this call, as well as the call itself, can be found in the 2007 Environment work programme, which will be made available on <http://cordis.europa.eu/fp7/>.

THEME 7 – TRANSPORT INCLUDING AERONAUTICS

Objective

Based on technological and operational advances and on European transport policy, the objective is the development of integrated, safer, "greener" and "smarter" pan-European transport systems for the benefit of all citizens, society and climate policy, respecting the environment and natural resources; and securing and further developing the competitiveness attained by the European industries in the global market.

Policy context

The annual Work Programme 2007 tackles research in key areas aimed at maintaining and increasing competitiveness of European transport industry and supporting increased mobility for all citizens while mitigating negative effects on the environment, energy use, safety, security and public health.

Objectives are clearly set out in the White Paper in Common Transport Policy²³ and its Mid-term Review²⁴. Additionally, Technology Platforms²⁵ have elaborated long-term visions and strategic research agendas complementing policy needs and societal expectations.

Structure of the WP

The annual Work Programme 2007 addresses transport in a systemic way: all modes are comprised and interactions through transport chains and supporting infrastructures are all being tackled.

"Transport including Aeronautics" Theme is composed of:

- AERONAUTICS and AIR TRANSPORT
- SUSTAINABLE SURFACE TRANSPORT
- GALILEO
- Horizontal topics supporting integration at Theme level form a chapter of the Work Programme.

A common structure making reference to *Levels* has been adopted so as to have a common categorisation of topics embedded in the structure of *Activities* and *Areas*. *Level 1* and *Level 2* are specified in detail in this Work Programme, whereas *Level 3* activities consist of Joint Technology Initiatives²⁶. These activities will be implemented by separate mechanisms and the details of topics will not be elaborated in this work programme. The Commission will

²³ CCM(2001)370 final

²⁴ CCM(2006)314 final

²⁵ The following Technology Platforms have produced outcomes of relevance to the present Work Programme: ACARE for aeronautics and air transport, ERRAC for rail transport, ERTRAC for road transport, WATERBORNE for waterborne transport, and HYDROGEN AND FUEL CELLS.

²⁶ Single European Sky Air Traffic Management Research (SESAR); Clean Sky; GALILEO as well as the Joint Technology Initiative on Hydrogen and Fuel Cells.

make specific proposals to set up Joint Technology Initiatives during 2007, on the basis of Article 171 of the Treaty.

Annual Work Programme 2007 foresees five calls:

- FP7- AERONAUTICS and AIR TRANSPORT (AAT) - 2007- RTD-1
- FP7- AERONAUTICS and AIR TRANSPORT (AAT) - 2007- TREN-1
- FP7- SUSTAINABLE SURFACE TRANSPORT (SST) – 2007- RTD-1
- FP7- SUSTAINABLE SURFACE TRANSPORT (SST) – 2007- TREN-1
- FP7- TRANSPORT (TPT) – 2007- RTD-1

The calls will be implemented by the following funding schemes: Collaborative Projects (CP), Networks of Excellence (NoE) and Coordination and Support Actions (CSA). The funding schemes applicable to each topic are indicated in the work programme, along with guidance to the expected level of ambition and other relevant information. The activities identified in the Work Programme are directly linked to and elaborated in detail from the Specific Programme.

Activities

In Aeronautics and Air Transport, the following activities are addressed:

- The Greening of Air Transport,
- Increasing Time Efficiency,
- Ensuring Customer Satisfaction and Safety
- Improving Cost Efficiency
- Protection of Aircraft and Passengers
- Pioneering the Air Transport of the Future
- Cross-cutting Activities

In Sustainable Surface Transport, the following activities are addressed:

- The Greening of Surface Transport
- Encouraging Modal Shift and Decongesting Transport Corridors
- Ensuring Sustainable Urban Mobility
- Improving Safety and Security
- Strengthening Competitiveness
- Cross-cutting Activities

Horizontal activities for implementation of the Transport Work Programme address varied tasks, including co-modality for passengers and freight, transport and tourism, evaluation and impact assessment, support measures for National Contact Points.

In the section of the annual Work Programme dedicated to GALILEO, the following activities are addressed, although they will be implemented by separate mechanisms and the details of topics are not elaborated in this work programme:

- Exploiting the Full Potential
- Providing the Tools and Creating the Appropriate Environment
- Adapting Receivers to Requirements and Upgrading Core Technologies
- Supporting Infrastructure Evolution

THEME 8: SOCIO-ECONOMIC SCIENCES AND THE HUMANITIES

Objective

Generating an in-depth, shared understanding of complex and interrelated socio-economic challenges Europe is confronted with, such as growth, employment and competitiveness, social cohesion, social, cultural and educational challenges in an enlarged EU, sustainability, migration and integration, quality of life and global interdependence, in particular with the view of providing an improved knowledge base for policies in the fields concerned.

Policy Context

The ambitious agendas set out by the Lisbon and Göteborg Summits can only be achieved through a process that reconciles distinct but complementary objectives: the need for economic development and progress while at the same time achieving sustainability and improving cohesion; the need to bring about change while at the same time reinforcing core values and respecting diversity in its various manifestations; the need to reinforce the EU competitiveness while at the same time developing new types of international relations with our partners.

The Socio-economic Sciences and Humanities Theme will operate at the interface between these objectives. It will do this by supporting research and related activities aimed not only at providing the basis for policy development but also at improving insight and understanding of the key underlying trends and the factors driving them. This Theme should therefore help improve our knowledge in these fields but also our policies.

For example, the emergence of the use and generation of new knowledge as a key component of economic development raises questions not just about what is needed to support this process, but also on the consequences for society, the environment and the aspirations and wellbeing of the individual. On the other hand, society is itself evolving: for example, falling birth-rates and increasing life-expectancy are changing the balance between economic activities that support the provision of social services and societal demand for such services. Furthermore, the evolution of the European Union, and the movement of peoples through migration and immigration raises fundamental questions as regards cultural diversity, life-long-learning, social inclusion, relationships with other States, citizenship and identity that need to be addressed to avoid social conflict and the fragmentation of our societies. More broadly, in the context of globalisation the European Union needs to do more to establish itself as both a preferred partner and an informed leader, to build useful interdependencies and to develop and maintain clear standards as regards, for example, conflicts and human rights.

Synergies with other Themes and Specific Programmes

In addition to providing support for policy through development and analysis of specific socio-economic indicators, and work on trend analysis and the identification of emerging issues, the Socio-economic Sciences and Humanities Theme will support the development of actions undertaken elsewhere within the "Cooperation" Specific Programme" and, where appropriate, within the Specific Programmes "Ideas" and "Capacities". Complementarities and synergies with other priorities of the "Cooperation" specific programme (in particular the "Food, Agriculture, Fisheries and Biotechnology", "Energy" and "Environment" priorities) are especially sought under activity 8.2. in this Work Programme.

Implementation

This Work Programme will focus on the production of new interdisciplinary knowledge, and on the interface with the needs and expectations of policy-makers and other interested stakeholders.

Proposals for funding should strengthen the capability of socio-economic sciences and humanities to contribute to the continuing development of the European Research Area. In consequence they are expected to: first, provide a sufficiently broad European and comparative perspective on the research topics described in this Work Programme; achieve co-operation within and between disciplines to the degree required by the issues being addressed; involve, as appropriate, users and stakeholders in the implementation of the project, and develop clear and targeted dissemination and valorisation strategies, addressing and involving not only scientific audiences, but also policy-makers, other key actors and, where appropriate, the general public.

Structure of the Work Programme

The Work Programme is structured in terms of *Activities* that are subdivided into *Areas* and *Topics*. Proposals are invited at the level of *Topics*. Proposals for Collaborative projects and Co-ordination and Support Actions must make a clear and important contribution to the core objectives described in each *Topic*. Proposals may address more than one *Topic*, but they should primarily focus on a single topic on which they would make the most important contribution and which will be their centre of gravity.

The content of this Work Programme draws to a significant extent from two Internet-based consultations in 2004 and 2006 and from a number of targeted expert meetings to identify better research priorities in socio-economic sciences, humanities and foresight.

In this first Work Programme, all activities identified in the framework of the Specific Programme are addressed, at least partially. A particular emphasis is given to *Activities* 1 and 2 which deal with the strategic agenda of the Union on competitiveness, growth and employment as well as sustainable development. Over the seven years of the programme's implementation, it is intended that a broad balance will be observed among the *Activities*.

Particular attention is given to the contribution of Humanities scholars who could be involved in all activities of this Work Programme. Furthermore, enhanced international cooperation will be a key objective for Theme 8 during the Seventh Framework Programme. Finally, a balanced representation of women and men in research projects is encouraged.

Activities

Within activity 8.1. "Growth, employment and competitiveness in a knowledge society: the European case", topics will address the changing role of knowledge throughout the economy (e.g. the impact of internationalisation on Europe's research and innovation system), structural changes in the European knowledge economy (e.g. globalisation and its interactions with the European economy) and strengthening policy coordination coherence in Europe (e.g. macroeconomic policy, its interaction and coordination with other policies).

Within activity 8.2 "Combining economic, social and environmental objective in a European perspective: paths towards sustainable development", topics will address the issue of socio-economic development trajectories (e.g. trade-offs and synergies between different types of

sustainable development) and issues of regional territorial and social cohesion (e.g. the impact of Common Agricultural Policy reforms on Europe's rural economies;)

Within activity 8.3 "Major trends in society and their implications", topics will address: the issues of demographic changes (e.g. determinants of birth rates across the European Union), societal trends and lifestyles (e.g. youth and social exclusion) and cultural interactions in an international perspective (e.g. cultural interactions and multiculturalism in European societies)

Within activity 8.4 "Europe in the world", topics will address the interactions and interdependences between world regions and their implications (e.g. Europe's role in global economic governance), issues of conflict, peace and human rights (e.g. the articulation of the rule of law and protection of human right at national, European and international levels) and Europe's changing role in the world (e.g. Europe seen from the outside).

Within activity 8.5 "The Citizen and the European Union", topics will address the issue of participation and citizenship in Europe (e.g. reassessing citizenship within the European Union), diversities and commonalities in Europe (e.g. histories and identities – articulating national and European identities)

Within Activity 8.6 "Socio-economic and scientific indicators", topics will address the issue of how indicators are used in policy (e.g. current use of indicators and emerging needs for indicators in policy), developing better indicators for policy (e.g. improved ways of measuring both the potential for and impact of policy), provision of underlying official statistics (e.g. specific statistical issues) and development of methods for the evaluation of research policies and programmes (e.g. ex post and ex ante impact analysis of research policies and programmes)

Within activity 8.7 "Foresight activities", topics will address forwards visions of the European Research Area from the inside and outside (e.g. ERA towards 2020: Scenarios and options for the future; the joint exploration of S&T issues with other Research intensive economies), research, research policy and interrelations with other policy areas (e.g. lead markets and S&T specialisation in Europe), the future dynamics of key S&T actors in Europe (e.g. the future of universities), blue sky research on emerging issues affecting European S&T and mutual learning and cooperation.

Finally, within activity 8.8 "Strategic activities", topics will include research on emerging needs; measures to support international cooperation; measures to support dissemination of research; transnational cooperation among National contact points for Socio-economic sciences and the humanities; impact assessment studies; support to ERA-NET and ERA-NET plus, and a specific scheme on Monitoring European Trends in Research in the Socio-economic sciences and the humanities (METRIS).

THEME 9: SPACE

Objective

The objective of the FP7 space work programme is to support a European Space Policy focusing on applications such as GMES (*Global Monitoring for Environment and Security*), with benefits for citizens, but also other space foundation areas for the competitiveness of the

European space industry. This will contribute to fulfil the overall objectives of the European Space Policy, complementing efforts of Member States and of other key players, including the European Space Agency (ESA).

Policy context:

The White Paper on Space²⁷ defines an action plan for implementing a European Space Policy and underlines that Space is a tool at the service of several EU needs, e.g. in the fields of transport, environment, agriculture, fisheries, telecommunications, security.

Space-based applications at the service of the European Society will be developed, with GMES being central to this activity, contributing to 'achieving by 2008 an operational and autonomous European capability', as expressed at the June 2001 Gothenburg summit and in a subsequent Council Resolution²⁸. In its Communication²⁹ of November 2005, the Commission has confirmed its intention to move *from concept to reality* in supporting a variety of EU policies with geospatial information through GMES, and it has outlined the roles and responsibilities of EU institutions, the European Space Agency, and their Member States.

Compliance with the requirements and the guidelines included in the INSPIRE proposal for a directive³⁰ is crucial to the success of the GMES service component. FP7 research and development activities for GMES shall therefore contribute to the ongoing INSPIRE implementation, as far as practically relevant.

Beyond GMES and in line with the European Space Policy other topics will be addressed in the current FP7 Space work programme, in particular in view of strengthening the foundations of European Space science and technology, without which it becomes impossible to develop truly autonomous and efficient applications.

The use of a Joint Technology Initiative in the specific area of GMES is currently still investigated. Following a dedicated consultation of Member States and key stakeholders through the GMES Advisory Council, further decisions on the implementation and its structure will be included in the Work Programme.

Approach:

Two main classes of *activities* will be undertaken to achieve the above policy objectives:

- Space-based **applications** at the service of the European Society, with **GMES** (Global Monitoring for Environment and Security) being central to this activity;
- Providing R&D support to the **foundations of Space science, exploration, space transportation and space technology** through synergies with initiatives of ESA or other European, national or regional entities.

²⁷ COM(2003) 673, 11 November 2003 "Space: a new European frontier for an expanding Union"

²⁸ Council Resolution 2001/C 350/02 (13.11.2001)

²⁹ COM(2005)565 final, 10 November 2005

³⁰ COM(2004)516 final, 23 July 2004, Proposal for a Directive Of The European Parliament and of the Council establishing an infrastructure for spatial information in the Community (INSPIRE); also COM(2006)51 final, 10 February 2006

The support for the **first activity**, the development of GMES, is to be expressed in four main *action areas*:

- i. Support to the **(pre-)operational validation of GMES services and products** based on the integration and harmonisation of related observation data (both satellite-based and in-situ, including ground-based, ship-borne and airborne), starting with the Fast Track Services.
- ii. Integration of satellite communication and satellite navigation solutions with space-based observing systems, and with related non-space systems, for instance for **prevention and management of all kinds of emergency**.
- iii. Support to the **coordinated provision of observation data**, both from space-based infrastructure and from in-situ observing systems.
- iv. Development of **Earth observation satellites**, which relate to the management of the environment and security, and which complement in-situ systems.

For the **second activity**, the strengthening of foundations of Space science and technology, the support is to be expressed in three more *action areas*:

- i. Support to research activities related to **space science and exploration**,
- ii. New concepts in **space transportation, space technologies** and including **critical components**,
- iii. Research into reducing the vulnerability of **space based systems and services**.

Additionally to these, cross-cutting issues such as SME relevant research, international co-operation, dissemination actions will be addressed synergetic with the call topics opened in the calls, to add specific value to the activities as appropriate.

Activities subject of a call in 2007:

The following activities will be supported through funding by the Space theme, and **will be subject of a call** in 2007:

Activity/ Area	Topics called	Funding Schemes
9.1.1 Space-based applications at the service of European Society / Integration, harmonisation, use and delivery of GMES data	SPA.2007.1.1.1 Development of upgraded capabilities to existing FTS and related (pre)-operational services *	Collaborative Projects, Coordination and Support Action
	SPA.2007.1.1.2 Developing pre-operational GMES pilot services in new application fields *	Collaborative Projects, Network of Excellence
9.2.1 Strengthening of Space foundations/ Research to support space science and exploration	SPA.2007.2.1.1 Space Science*	Collaborative Projects, Coordination and Support Action
9.2.2 Strengthening of Space foundations / Research to support space transportation and key technologies	SPA.2007.2.2.1 Space technologies*	Collaborative Projects, Coordination and Support Action
	SPA.2007.2.2.2 Space	Collaborative

	transportation*	Projects, Coordination and Support Action
9.3.2 Cross-cutting activities / Crossborder co-operation	SPA.2007.3.2.1 Trans-national co-operation among NCPs*	Coordination and Support Action

Other potential research topics have already been outlined for inclusion in later calls (section IV of the Work Programme) in order to enable applicants to better plan ahead.

Activities implemented during FP7 within the Space Theme, but not subject of a call:

The following activities will be supported through funding by the Space theme, but **will not be subject of a call** under the Space theme:

a) Coordinated provision of space-based observation data for GMES

GMES service development, validation and operational scenario demonstration requires a comprehensive supply of data from space-based observation systems. The objective is to facilitate the provision of data, thereby enabling easy access for relevant research projects to necessary data. Due to its outstanding experience in assuring access to relevant space data for GMES, ESA is seen as the best choice for coordinating this pilot action of 'bulk data procurement' for those FP7 projects that will develop and validate GMES services.

Overall, of order 8% of the FP7 'Space' budget³¹ could be made available for this pilot action over the period 2007-2013. Based on the specific capacities provided by ESA in this domain, ESA (together with additional national and international organisations to be selected by ESA through competitive calls, organised by ESA according to the applicable rules and procedures of FP7) would be the direct beneficiary for this funding³², through *Coordination and Support Action(s)*.

First financial support from FP7 is foreseen in the 2007 budget line, for a preliminary pilot action with a volume corresponding to about 47M€ over a three year period. Based on the experience gained, further funding for the continuation of this pilot action would be the subject of future work programme updates.

N.B. Community support for this action will exclude all contributions to the capital investments of the data source infrastructure.

b) Development of GMES-dedicated space infrastructure

As stated in the GMES Communication of 2005, FP7 funding is foreseen to provide a significant part to the *GMES Space Component* (GSC) Programme of ESA, in particular regarding the development of GMES-dedicated space-based infrastructure.

Overall, of order 45% of the FP7 'Space' budget³¹ could be made available for this action over the period 2007-2013. Based on the specific capacities provided by ESA in this domain,

³¹ Including the corresponding share of support to the horizontal support to cross-cutting activities such as RSFF, Cordis, and EUREKA, as well as of the relevant administrative expenses.

³² EC funding to ESA will be contingent upon the effective implementation of the intended action in the ESA framework and conclusion of a grant agreement (or a series of grant agreements) in compliance with the administrative and financial regulations applicable to the general budget of the European Communities and with the EC/ESA Framework Agreement.

ESA. (together with additional national and international organisations to be selected through competitive calls organised by ESA according to the applicable rules and procedures of FP7) would therefore be the direct beneficiary for this funding, through *Coordination and Support Action(s)*.

First financial support from FP7 should be foreseen in the detailed Work Programme in 2007 or 2008 (for funding likely to start with the 2009 budget), taking account of any update or revision of the GSC Programme by ESA. It is in fact assumed that the GSC Programme continues to be developed by ESA in a way that is demonstrably coherent with the emerging user requirements being aggregated by the Commission.

N.B. Other FP7 funding instruments, e.g. based on a JTI, are not excluded in this context, but can only be the result of decisions adopted by the Council and the European Parliament (or by the Council in consultation with the European Parliament).

c) *Risk-sharing Finance Facility*

The preparation of operational service capacities, as well as development of the GMES space components correspond to large undertakings and projects, involving long-term investments, with considerable risks for participating industries. The Community contribution to RSFF will be used, by the Bank, in accordance with eligibility criteria set out in Annex 4 of the Work Programme 'Co-operation'.

THEME 10: SECURITY

The **objective** of the Security theme is: to develop the technologies and knowledge for building capabilities needed to ensure the security of citizens from threats such as terrorism and (organised) crime, natural disasters and industrial accidents while respecting fundamental human rights including privacy; to ensure optimal and concerted use of available and evolving technologies to the benefit of civil European security; to stimulate the co-operation of providers and users for civil security solutions; to improve the competitiveness of the European security industry and to deliver mission-oriented results to reduce security gaps.

The Security theme will maintain an exclusively civil orientation and focus on activities of clear European added value.

Scope

The WP is based upon the recommendations of the Commission's *European Security Research Advisory Board (ESRAB)* and organised in **four security missions** of high political relevance. Research funded in these areas will deliver technologies and knowledge to build up the required capabilities of the persons and organisations responsible for safeguarding security in these missions:

1. *Security of citizens*
2. *Security of infrastructures and utilities*
3. *Intelligent surveillance and border security*
4. *Restoring security and safety in case of crisis*

The four missions are completed by **three domains of cross-cutting interest**:

5. *Security systems integration, interconnectivity and interoperability*
6. *Security and society*
7. *Security Research coordination and structuring*

Theme architecture: Concerning the four missions, the Security theme applies a “building block” approach as recommended by ESRAB:

- Topics for **capability projects** aiming at building up and/or strengthening security capabilities required in the four security missions through *adaptation of available technology* as well as the development of *security specific technology and knowledge*. The funding scheme that typically applies is *collaborative projects*.
- Topics for **integration projects** aiming at mission specific combination of individual capabilities providing a security *system* and demonstrating its performance. They depend upon the technology and knowledge building blocks carried out within the capability projects or elsewhere. The funding scheme that typically applies to integration projects is *collaborative projects*.
- Topics for **demonstration projects** aiming at large scale integration, validation and demonstration of security *systems of systems*. They depend upon the compatible, complementary and interoperable development of requisite system and technology building blocks of the integration projects and capability projects. They intend to promote the application of a security solution, which implies a strong involvement of end users and strong links to standardisation. Demonstration projects will be implemented in two phases:

Phase 1 with a duration of 1 – 1,5 years to define their strategic roadmaps and trigger EU wide awareness, both elements involving strategic public and private end users as well as industry and research. The funding scheme that typically applies to demonstration projects phase 1 is *coordination and support actions*.

Phase 2 will then technically implement the system of systems demonstration projects, close to standardisation, markets and procurement. The funding scheme that typically applies to demonstration projects phase 2 is *collaborative projects*.

These technology oriented actions can deliver important tools for preventing, responding, managing and mitigating potential security threats to European societies, but to achieve an effective response they need to be complemented by research into political, social and human issues. *Security and society* is thus the central element of the cross-cutting domains of the Security theme for which both *collaborative projects* and *coordination and support actions* apply. For *Security systems integration, interconnectivity and interoperability*, *collaborative projects* can be chosen as a funding scheme. For *Security Research coordination and structuring*, the most appropriate funding scheme is *coordination and support actions*.

Principles, characteristics and particularities: Actions should bring together all security stakeholders: industry including SMEs (small and medium enterprises), research

organisations, universities, as well as public authorities, non-governmental organisations and public and private organisations in the security domain.

All topics of this WP are open to international co-operation. However, it is not foreseen to launch any 'specific international co-operation actions'.

For the calls covered by this WP, *proposals* must not contain any classified information. If *actions* handle or produce classified information, its correct treatment will be verified by the Commission in cooperation with the Member States represented in the Programme Committee configuration, according to a special procedure.

For topics where a very limited market size or the risk of market failure can be expected and with a view to accelerated equipment development in response to new threats, a higher funding level of up to 75% can be foreseen also for large industry.

The *Security Research coordination and structuring* activity allows for the submission of an ERA-NET or similar action.

The *Risk-Sharing Finance Facility (RSFF)* established by the European Investment Bank (EIB) is open for security theme proposals as well.

Implementation of the WP: In 2007, two calls for proposals will be published by the Security theme:

- The **Security Research Call 1** will be open from 22 December 2006 to 31 May 2007. It will comprise a series of capability and integration project topics of all four missions and the 'first phases' of two demonstration projects from two of the missions (the 'second phases' are foreseen to be published in 2009, three further 'first phases' of other demonstration topics will be launched in 2008 with the 'second phases' in 2010). These topics will be completed by a number of cross-cutting topics from *Security and Society* and *Security Research Coordination and Structuring*.
- A **Joint Call ICT & Security 1** together with Theme 3 Information and Communication Technologies will be open from 30 August 2007 to 29 November 2007 (the budget will be provided 50% each by the ICT and the Security theme). It will invite capability projects and coordination and support actions with a focus on *Improving security systems integration, interconnectivity and interoperability* in the domain of critical transport and energy infrastructures.

Detailed information concerning the topics open to the two calls as well as concerning the calls themselves can be found in the 2007 Security Work Programme which will be made available on <http://cordis.europa.eu/fp7/calls/>.

There are four annexes to the work programme:

Annex 1 provides a list of the International Cooperation Partner Countries.

Annex 2 sets out the eligibility criteria for proposals and also the criteria for the evaluation of proposals

Annex 3 sets out the forms of the grant and the maximum reimbursement rates for projects funded through the Cooperation work programme

Annex 4 presents a series of activities which are funded across the Programme. The CORDIS (Community Research and Development Information Service) portal provides services to foster the dissemination of knowledge and the exploitation of research results, as well as hosting all documentation related to the calls for proposals. The second activity is the ERA-NET scheme, which aims to strengthen and coordinate national and regional research programmes. The annex sets out a call for proposals for ERA-NET and ERA-NET Plus in topics prioritised in the ten chapters of the Cooperation work programme. The call also offers support for bottom up ERA-NET proposals in research areas cutting across one or more of the Themes or in areas not directly linked to the Themes. Financial support will also be given for ERA-NET Plus activities to EURAMET and BONUS to bridge the gap between the previous ERA-NET activities in metrology and Baltic Sea research and the foreseen Article 169 initiatives in these areas. The Cooperation Programme will also provide support for CCST and for increasing synergy with EUREKA. Finally, full details of the Community support to the European Investment Bank for the establishment of the Risk Sharing Finance Facility (RSFF) are set out. The RSFF is a financing instrument aiming to foster private sector investment in research technological development and demonstration and in innovation.



EUROPEAN COMMISSION
RESEARCH DIRECTORATE-GENERAL

The Deputy Director-General : Political framework and simplification

Brussels,
D(2006)/I/36818


Note for the file

Subject: Cooperation Programme – Programme Committee Opinion Status

The 11 Programme Committee configurations of 'Cooperation' have been consulted on their relevant part of the 2007 work-programme. Each Thematic configuration has been consulted on the respective thematic part and the 'specific' configuration has been consulted on the General Introduction and the four annexes of the Cooperation work-programme.

Delegations have had the chance to make comments which have been taken on board in the text of the 2007 work-programme.

In that context, the informal agreement of each Programme Committee configuration, and therefore the Committee, can be assumed.



D. Jacob

4. FICHE D'IMPACT BUDGETAIRE

RESUME "COOPERATION"

DG RTD – DIRECTIONS F-E-G-K-I-H-L
+ DG TREN; DG INFSO; DG ENTR

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S): 08 RECHERCHE

ACTIVITE(S): 08.XX – COOPERATION

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

- **08.02.01** - COOPERATION DANS LE DOMAINE DE LA SANTE;
- **08.03.01** – COOPERATION DANS LES DOMAINES DE L'ALIMENTATION, DE L'AGRICULTURE ET DES BIOTECHNOLOGIES;
- **08.04.01** - COOPERATION-NANOSCIENCES, NANOTECHNOLOGIES, MATERIAUX ET NOUVELLES TECHNOLOGIES DE PRODUCTION;
- **08.05.01** COOPERATION - ENERGIE;
- **08.06.01** - COOPERATION — ENVIRONNEMENT (Y COMPRIS LE CHANGEMENT CLIMATIQUE);
- **08.07.01** - COOPERATION – TRANSPORT (INCLUDING AERONAUTICS);
- **08.08.01** - COOPERATION DANS LE DOMAINE DES SCIENCES SOCIO-ECONOMIQUES ET SCIENCES HUMAINES.
- **08.09.01** – COOPERATION : INSTRUMENT DE FINANCEMENT AVEC PARTAGE DES RISQUES (BEI).
- **06.06.01** – COOPERATION : RECHERCHE LIEE A L'ENERGIE;
- **06.06.02** – COOPERATION : RECHERCHE LIEE AUX TRANSPORTS (Y COMPRIS L'AERONAUTIQUE);
- **09.04.01** – COOPERATION : INFORMATION ET TECHNOLOGIES DE LA COMMUNICATION (ICT);
- **02.04.01** – COOPERATION : RECHERCHE DANS LE DOMAINE DE L'ESPACE ET DE LA SECURITE;
- **02.04.02** - COOPERATION : ACTION PREPARATOIRE POUR LE RENFORCEMENT DE LA RECHERCHE EN MATIERE DE SECURITE EUROPEENNE.

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

■ 3.a. - Exercice 2007

		CE (en €)
Crédit initial de l'exercice (budget)		3.468.506.000
Virements		
Crédit supplémentaire	AELE 2.28% (+ RT)	147.587.068
Total du crédit		3.616.093.068
Crédits déjà réservés par un autre programme de travail		0
Solde disponible		3.616.093.068
Calls		3.190.207.967
Experts évaluateurs		39.628.266
Other (*)		138.242.985
RSFF		160.000.000
Cordis		7.000.000
COST		30.000.000
Eureka		800.000
ERA nets		41.000.000
Montant de l'action proposée		3.606.879.219

(*) e.g. conferences , support actions for impact assessment, monitoring, ad hoc grants

■ 3. b. – c. Non applicable

4. DESCRIPTION DE L'ACTION

La description des actions est reprises sur les fiches d'Impact Budgétaire individuelles.

5. MODE DE CALCUL ADOPTE

Les montants des actions sont repris sur les fiches d'Impact Budgétaire individuelles.

CALCUL PAIEMENTS:

Voir fiches d'Impact Budgétaire individuelles.

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Lignes	Engagements	Paiements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
08.02/03/04/05/06/07/08/09	Année 2007					
Total (*)	2.233.116.387	156.793.108	797.342.200	364.381.266	368.567.866	546.031.946

(*) Les montants totaux reprennent les montants APB 2007 incluant l'AELE au taux de 2,28%.

4. FICHE D'IMPACT BUDGETAIRE
DG RTD – DIRECTION F

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S): 08 RECHERCHE

ACTIVITE(S): 08.02.01 - COOPERATION DANS LE DOMAINE DE LA SANTE

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

Article 08.02.01 'Coopération dans le domaine de la santé'

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

■ **3.a. - Exercice 2007**

		CE (en €)
Crédit initial de l'exercice (budget)		688 163 000
Virements		
Crédit supplémentaire	AELE 2.28%	15 690 116
Total du crédit		703 853 116
Crédits déjà réservés par un autre programme de travail		0
Solde disponible		703 853 116
Appel FP7-HEALTH-2007 - A		628 000 000
Experts évaluateurs		11 600 000
Autres (*)		3 400 000
RSFF (**)		31 940 000
Cordis		1 388 823
COST		5 952 099
Eureka		158 723
ERA nets		12 508 983
Montant de l'action proposée		694 948 628

(*) HFSPO, appel à manifestation d'intérêt

(**) The amount for RSFF is to be transferred to activities described in annex 4.

■ **3. b.- c. Not applicable**

4. DESCRIPTION DE L'ACTION

Voir tableau ci dessous

5. MODE DE CALCUL ADOPTE

Voir tableau ci dessous

Budget indicatif par thème pour 2007

Sous - thème	2007 €
1 - APPEL FP7-HEALTH-2007-A	628 000 000
BIOTECHNOLOGY, GENERIC TOOLS AND TECHNOLOGIES FOR HUMAN HEALTH	138 000 000
TRANSLATING RESEARCH FOR HUMAN HEALTH	472 000 000
ACTIONS ACROSS THE THEME	12 000 000
SPECIFIC INTERNATIONAL COOPERATION ACTIONS (SICA)	6 000 000
2 - ACTIVITES GENERALES:	51 948 628
CORDIS	1 388 823
EUREKA / RESEARCH ORGANISATIONS	158 723
CoST	5 952 099
ERA-NET	12 508 983
R.S.F.F	31 940 000
3 - AUTRES ACTIVITES:	15 000 000
COÛT ÉVALUATIONS - EXPERTS (APPELS FP7-HEALTH-2007 A+B)	11 600 000
HUMAN FRONTIER SPECIFIC PROGRAM HFSP	2 400 000
APPEL A MANIFESTATION D'INTERET	1 000 000
TOTAL GENERAL :	694 948 628

CALCUL PAIEMENTS (INDICATIF):

- liquidation frais experts évaluateurs (5 M€)
- paiement cotisation HFSP (2,4 M€)
- *paiement RSFF (5 M€)*
- *paiement ERA nets (5 M€)*
- *paiement COST (2,3 M€)*
- *paiement Cordis (0,5 M€)*
- appel à manifestation d'intérêt (0,4 M€ soit préfinancement de 40 %)
- liquidation préfinancement des projets de l'appel FP7-HEALTH-2007-A (45,8 M.€, soit l'équivalent d'une dizaine de projets, le solde des pré financement sera payé sur les crédits 2008).

6. ECHEANCIER DE PAIEMENTS (EN EUROS) (A REMPLIR L' ANNEE 2010 + EXERCICES ULTERIEURS)

Ligne	Engagements	Palements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
08.02	Année 2007					
Total	703 853 116	66 482 000	179 518 000	140 475 000	140 382 000	176 996 116

(*) Les montants totaux reprennent les montants APB 2007 incluant l'AELE au taux de 2,28%.

4. FICHE D'IMPACT BUDGETAIRE
DG RTD – DIRECTION E

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S):08 RECHERCHE

ACTIVITE(S): 08 03 Coopération dans les domaines de l'alimentation, de l'agriculture et des biotechnologies.

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

08 03 01 – Coopération dans les domaines de l'alimentation, de l'agriculture et des biotechnologies.

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

■ 3.a. - Exercice 2007

		CE (en €)
Crédit initial de l'exercice (budget)		204 559 000
Virements		
Crédit supplémentaire	AELE 2.28%	4 663 945,2
Total du crédit		209 222 945,2

Crédits déjà réservés par un autre programme de travail		0
Solde disponible		209 222 945,2
Calls		192 095 307,2
Experts évaluateurs		1 400 000
Other (*)		250 000
RSFF		9 530 000
Cordis		412 833
COST		1 769 283
Eureka		47 181
ERA nets		3 718 341
Montant de l'action proposée		209 222 945,2

(*) e.g. conferences , support actions for impact assessment, monitoring, ad hoc grants

3. B – C Non applicable

4. DESCRIPTION DE L'ACTION

L'objective de l'action est la mise en œuvre de la première année du 7ème programme cadre pour l'activité Coopération dans le domaine thématique II "Alimentation, Agriculture et Biotechnologie".

5. MODE DE CALCUL ADOPTE

Crédits d'engagement

192 095 307 euros correspondent au budget indicatif d'un appel COOP-KBBE-2007-1 qui sera clôturé début 2007 financé intégralement sur le budget 2007.

1 400 000 euros correspondent aux coûts des évaluations du premier appel ainsi de l'évaluation pour le deuxième appel. 250 000 euros correspondent aux coûts de monitoring.

Une contribution de 9 530 000 euros est réservée pour le mécanisme de financement de partage des risques (RSFF), 412 833 euros pour l'espace d'information Cordis, 1 769 283 euros pour l'instrument qui donne support à la coopération COST, 47 181 pour les réseaux EUREKA, et 3 718 341 euros pour le soutien à la coordination des activités de recherche ERA-NET's .

DES RECETTES DE PAYS TIERS SERONT UTILISEES SUR LE CALL REPRIS CI-DESSUS, MAIS LEUR VALEUR AU STADE ACTUEL N'EST PAS CONNUE

CALCUL PAIEMENTS: LES CREDITS DE PAIEMENT SERONT ESSENTIELLEMENT UTILISE POUR LE FINANCEMENT DU RSFF ET LE REMBOURSEMENT DES EXPERTS.

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne	Engagements	Paielements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
08.03.01	Année 2007					
Total	209.222.945,20	11.874.708,00	83.869.600,00	46.064.866,40	46.064.866,40	21.348.904,40

(*) Les montants totaux reprennent les montants APB 2007 incluant l'AELE au taux de 2,28%.

FICHE D'IMPACT BUDGETAIRE

DOMAINE(S) POLITIQUE(S) : 09 TECHNOLOGIES DE L'INFORMATION ET DE LA COMMUNICATION

ACTIVITE(S) : 09 04 RECHERCHE ET DEVELOPPEMENT DES TECHNOLOGIES DE L'INFORMATION ET DE LA COMMUNICATION (ICT)

DENOMINATION DE L'ACTION: ICT PROGRAMME DE TRAVAIL VALANT DECISION DE FINANCEMENT POUR L'ANNEE 2007

1. LIGNE BUDGÉTAIRE CONCERNEE + INTITULÉ

Article 09 04 01 Information et Technologies de la communication (ICT)

2. BASE LEGALE

Treaty articles 163-173 for which the context is set by the following draft decisions:

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Coopération" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE

■ 3.a. - Exercice 2007

Sous réserve de l'adoption définitive du budget 2007

		CE (€)
Crédit initial de l'exercice		1.035.463.000
EFTA et recettes tiers (1)		78.108.556
Total du crédit		1.113.571.556
Crédits déjà réservés par un autre programme de travail		
Solde disponible		1.113.571.556
Montant de l'action propose		1.113.229.871

(1) Estimated amounts are based on 2006;

EFTA: max. 2.28% of operational ICT credits;

3rd country contr.: max. 5.3 % of operational ICT credits

■ **3.b. - Reports de l'exercice**

Pas d'application.

■ **3.c. - Exercice suivant (2008)**

Pas d'application.

4. DESCRIPTION DE L'ACTION

Les objectifs de cette action sont conformes aux commentaires budgétaires de la ligne 09.0401, tels qu'ils figurent dans l'APB 2007.

Appel ICT 1: La date de publication est décembre 2006. La date de clôture est le 1 mai 2007.

L'appel à propositions couvre les objectifs suivants:

- ICT-2007.1.1 The network of the future
- ICT-2007.1.2 Service and software architectures, infrastructures and engineering
- ICT-2007.1.3 ICT in support of the networked enterprise
- ICT-2007.1.4 Secure, dependable and trusted infrastructures
- ICT-2007.1.5 Networked media
- ICT-2007.2.1 Cognition, interaction, robotics
- ICT-2007.3.1 Next generation nanoelectronics components and electronics integration
- ICT-2007.3.2 Organic and large-area electronics and display systems
- ICT-2007.3.3 Embedded systems design
- ICT-2007.3.4 Computing systems
- ICT-2007.4.1 Digital libraries and technology-enhanced learning
- ICT-2007.4.2 Intelligent content and semantics
- ICT-2007.5.1 Personal health systems for monitoring and point-of-care diagnostics
- ICT-2007.5.2 Advanced ICT for risk assessment and patient safety
- ICT-2007.6.1 ICT for the intelligent vehicles and mobility services
- ICT-2007.7.1 ICT and ageing
- ICT-2007.8.1 Nano-scale ICT devices and systems
- ICT-2007 8.2 Pervasive adaptation
- ICT-2007.8.3 Bio-ICT convergence
- ICT-2007.9.1 International-cooperation

Details on the 'other expenditures' and 'ICT contributions to general FP7 activities' are provided in section '4. Implementation of the calls' and in Appendix 4 of the ICT Work Programme.

5. MODE DE CALCUL ADOPTE

	Commitments (in €)
	2007
<i>Calls for proposals</i>	
ICT Call 1	1.019.000.000
<i>Other expenditures</i>	
Independent experts assisting in proposal evaluations and project reviews	15.000.000
Annual ICT Conference	4.000.000
Studies	6.000.000
Publications and communication activities and event support	2.900.000
HSFP	1.500.000
IST Prize - EICTP	1.700.000
IMS secretariat	100.000
<i>ICT Contribution to General FP7 Activities</i>	
RSFF [/]	48.760.000
COST	8.955.986
ERANET	2.985.329
CORDIS	2.089.730
EUREKA	238.826
Total	1.113.229.871

6. ECHEANCIER DE PAIEMENTS

		Paievements (en Mio €)				
		2007	2008	2009	2010	Exercices ultérieurs
Crédits 2007	1113	205	300	300	308	

[/] The amount for RSFF is transferred to activities described in Annex 4 of the 'Cooperation' Workprogramme.

4. FICHE D'IMPACT BUDGETAIRE
DG RTD – DIRECTION G

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S): 08 RECHERCHE

ACTIVITE(S): 08.04 COOPERATION-NANOSCIENCES, NANOTECHNOLOGIES, MATERIAUX ET NOUVELLES TECHNOLOGIES DE PRODUCTION

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

08.04.01 - Coopération-Nanosciences, Nanotechnologies, Matériaux et nouvelles Technologies de production.

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

■ **3.a. - Exercice 2007**

		CE (en €)
Crédit initial de l'exercice (budget)		390 363 000
Virements		
Crédit supplémentaire	AELE 2.28%	8 900 276,4
Total du crédit		399 263 276,4
Crédits déjà réservés par un autre programme de travail		0
Solde disponible		399 263 276,4
Calls		364.723.000
Experts évaluateurs		3.500.000
Other (*)		1.550.000
RSFF (**)		18 140 000
Cordis		787 815
COST		3 376 350
Eureka		90 036
ERA nets		7 095 767
Montant de l'action proposée		399.262.968

(*) e.g. conferences , support actions for impact assessment, monitoring, ad hoc grants

(**) The amount for RSFF is to be transferred to activities described in annex 4.

■ **3. b. – c. Non applicable**

4. DESCRIPTION DE L'ACTION

Améliorer la compétitivité de l'industrie européenne et assurer sa transformation d'un industrie à forte intensité de ressources en une industrie à forte intensité de connaissances, en produisant des connaissances qui marquent une avancée capitale pour de nouvelles applications au carrefour de technologies et de disciplines différentes.

Cet Appel à proposition sera axé sur les 3 régimes de financement suivant:

a) Projets en collaboration où l'on fera la distinction entre "Small and medium scale (SP)" et "Large scale (LP)"

b) Actions de coordination et de Soutien (SCA)

c) Projets de recherche menée au profit des PME (PME)

5. MODE DE CALCUL ADOPTE

LP: 211.680.000

SP: 94.500.000

SCA: 9.593.000

SME: 48.000.000

CALCUL PAIEMENTS:

En fonction du planning prévu pour l'évaluation (évaluation en 2 étapes pour LP, SP et SME), les résultats de celles-ci sont prévus pour fin Novembre 2007

En conséquence, nous pouvons espérer au mieux le paiement de 1 à 2 Fond d'avance pour des contrats signés en 2007

Le solde des CP sera utilisé pour le paiement des experts.

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne	Engagements	Palements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
08.04.01	Année 2007					
Total (*)	399 263 276	5 114 000	135 115 000	51 907 000	28 623 000	178 504 276

(*) Les montants totaux reprennent les montants APB 2007 incluant l'AELE au taux de 2,23%.

4. FICHE D'IMPACT BUDGETAIRE

DG RTD – DIRECTION K

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S):08 RECHERCHE

ACTIVITE(S): 08 05 01 COOPERATION - ENERGIE

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

Article – 08 05 01 COOPERATION - ENERGIE

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

3.a. - Exercice 2007

		CE (en €)
Crédit initial de l'exercice (budget)		121 023 000
Virements		
Crédit supplémentaire	AELE 2.28%	2 759 324
Total du crédit		123 782 324
Crédits déjà réservés par un autre programme de travail		0

Solde disponible		123 782 324
Calls		109.297.896
Experts évaluateurs		1.000.000
Other (*)		4.265.633
RSFF (**)		5.700.000
Cordis		244.244
COST		1.046.759
Eureka		27.914
ERA nets		2.199.878
Montant de l'action proposée		123.782.324

(*) e.g. conferences , support actions for impact assessment, monitoring, ad hoc grants

(**) The amount for RSFF is to be transferred to activities described in annex 4.

■ 3. b. – c. Non applicable

4. DESCRIPTION DE L'ACTION

L'objectif de ces actions sont conformes aux commentaires publiés à l'avant projet de budget 2007 pour ce poste.

Appel à propositions "COOP-ENERGY-2007-1-RTD"

11 IEA (International Energy Agency) Implementing Agreements

6 études

5. MODE DE CALCUL ADOPTE

La road map intégrée au programme de travail détaille la répartition financière par activité, domaine et instrument de ce thème.

Calcul paiements:

Il est prévu de signer 18 contrats avant fin de l'année et de payer les experts évaluateurs

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne	Engagements	Paiements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
08.05.01	Année 2007	Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
Total (*)	123 782 324	25 570 000	41 120 000	25 700 000	15 420 000	15 972 324

(*) Les montants totaux reprennent les montants APB 2007 incluant l'AELE au taux de 2,28%.

- COST (1,042 M€);
- Eureka (0,028 M€);
- ERA NET (0,347 M€).

For the International Energy Agency (IEA) implementing agreements it is foreseen to contribute 0,156 M€ (depending on exchange rate developments).

The call for proposals will be launched in December 2006 with a closing date in May 2007. The budgetary impact concerns the year 2007.

PAIEMENTS

The foreseen payments of 1,200 M€ in 2007 will be used to cover the costs of projects' evaluation and monitoring.

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne(s)	Engagements (M€)		Palements(M€)				
			2007	2008	2009	2010	Exercices ultérieurs
060601	2007 (n)	137,1	1,200	30,000	30,000	30,000	45,9
	Total (****)	137,1	1,200	30,000	30,000	30,000	45,9

(***) Des recettes de pays tiers seront utilisées, mais leur valeur au stade actuel n'est pas connue exactement.

(****) Ce montant provient de l'avant-projet de budget (APB) 2007 (incluant l'AELE au taux de 2,28%) et est à considérer comme provisoire sous réserve de son acceptation par l'Autorité budgétaire.

4. FICHE D'IMPACT BUDGETAIRE
DG RTD – DIRECTION I

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S): 08 RECHERCHE

ACTIVITE(S): 08 06 01 - Coopération — Environnement (y compris le changement climatique)

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

08 06 01– Coopération - Environment

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

■ 3.a. - Exercice 2007

		CE (en €)
Crédit initial de l'exercice (budget)		214.179.000
Virements		
Crédit supplémentaire	AELE 2.28%	4.883.281
Total du crédit		219.062.281

Crédits déjà réservés par un autre programme de travail		0
Solde disponible		219.062.281
Call		200.000.000
Experts évaluateurs		2.000.000
Other (*)		884.937
RSFF (**)		9 950 000
Cordis		432.248
COST		1.852.489
Eureka		49.400
ERA nets		3.893.207
Montant de l'action proposée		219.062.281

(*) e.g. conferences , support actions for impact assessment, monitoring, ad hoc grants

(**) The amount for RSFF is to be transferred to activities described in annex 4.

■ **3.b – c. Non Applicable**

4. DESCRIPTION DE L'ACTION

It is planned to spend the funding on a single call on the following activities:

- 6.1 Climate Change Pollution and Risk
- 6.2 Sustainable management of Resources
- 6.3 Environnemental Technologies
- 6.4 Earth Observation and Assessment Tools for sustainable development
- 6.5 Horizontal Actions

The rest of the activities concerns supporting measures which are identified below.

5. MODE DE CALCUL ADOPTE

An amount of 200 million€ will be spend through contacts with successful applicants using grants agreements. The form of the grant will be reimbursement of eligible costs. The maximum reimbursement rates are those foreseen in the Rules for Participation (Article 32) for the Community. The number of contemplated contracts are not known.

The foreseen costs for other activities are as follows:

- Evaluations (2 M €)
- Programme impact assessment (0.3 M €)
- Information/ communication (0.6 M €)

The evaluations will be implemented through expert contracts. The Programme impact assessment and information/ communication activities will be implemented using existing framework contracts or public procurement procedures.

Details for RSFF are provided in a separate fiche d'impact (details in Annex 4 of the work programme).

CORDIS will be implemented through an internal administrative arrangement with OPOCE (details in Annex 4 of the work programme).

COST, Eureka, and some ERA-NETs will be implemented as named beneficiaries in the sense of Article 14a of the Rules (details in Annex 4 of the work programme).

The rest of the ERA-NETs will be implemented through contacts with successful applicants using grants agreements (details in Annex 4 of the work programme).

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne	Engagements	Paiements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
08.06.01	Année 2007					
TOTAL	219.062.281	10 228 000	72 618 800	38 866 400	46 026 000	51 323 081

(*) Les montants totaux reprennent les montants APB 2007 incluant l'AELE au taux de 2,28%.

4. FICHE D'IMPACT BUDGETAIRE
DG RTD – DIRECTION H

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S): 08 RECHERCHE

ACTIVITE(S): 08.07 - COOPERATION – TRANSPORT (INCLUDING AERONAUTICS)

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

08.07.01 - Cooperation – Transport (including Aeronautics)

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

■ **3.a. - Exercice 2007**

		CE (en €)
Crédit initial de l'exercice (budget)		339.999.000
Virements		
Crédit supplémentaire	AELE 2.28%	7.751.977
Total du crédit		347.750.977

Crédits déjà réservés par un autre programme de travail		0
Solde disponible		347.750.977
Calls		318.955.364
Experts évaluateurs		1.000.000
Other (*)	<i>JTI Preparatory activities</i>	2.000.000
RSFF (**)		15.910.000
Cordis		686.172
COST		2.940.739
Eureka		78.420
ERA nets		6.180.282
Montant de l'action proposée		347.750.977

(*) e.g. conferences , support actions for impact assessment, monitoring, ad hoc grants

(**) The amount for RSFF is to be transferred to activities described in annex 4.

■ **3. b. – c. Non applicable**

4. DESCRIPTION DE L'ACTION

L'objectif de cette action est conforme aux commentaires publiés à l'avant-projet de budget

Le programme de travail comprend 5 "calls" qui seront lancés en 2007 dont 3 par la DG RTD :

1. COOP – AERONAUTICS and AIR TRANSPORT (AAT) – 2007 – RTD-1
2. COOP – SUSTAINABLE SURFACE TRANSPORT (SST) – 2007 – RTD-1
3. COOP – TRANSPORT (TPT) – 2007 – RTD-1

5. MODE DE CALCUL ADOPTE

1. 152.477.682 € (evaluation included)
2. 152.477.682 € (evaluation included)
3. 12.000.000 €

CALCUL PAIEMENTS:

Signer des contrats pour au moins 50.000.000 € de crédits d'engagement afin de payer les 40 % d'avance ainsi que les évaluations qui ne peuvent pas être calculés à ce stade.

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne	Engagements	Palements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
08.07.01	Année 2007					
Total	347 750 977	20.456.000	118.644.800	40.912.000	71.596.000	96.142.177

(*) Les montants totaux reprennent les montants APB 2007 incluant l'AELE au taux de 2,28%.

FICHE D'IMPACT BUDGETAIRE

FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT
(OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S): 06 ENERGY AND TRANSPORT

ACTIVITÉ(S): 06 06 RESEARCH RELATED TO ENERGY AND TRANSPORT

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LANCEMENT D'UN APPEL A PROPOSITIONS : "COOP-TRANSPORT-2007-1-TREN"

1.A FP7- AERONAUTICS and AIR TRANSPORT (AAT) – 2007 – TREN-1

1.B FP7- SUSTAINABLE SURFACE TRANSPORT (SST) – 2007- TREN-1

2. FINANCEMENT DES ACTIVITES GALILEO

3. FINANCEMENT DES ACTIVITES SESAR

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

06 06 02 Recherche liée aux transports (y compris l'aéronautique)

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 165, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Coopération – Energie" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

□ 3.a. - Exercice en cours (2007)

		CE (M€)
Crédit initial de l'exercice (budget)		114,000(*)
Virements		0
Crédit supplémentaire	1) Estimated EFTA/EEA contribution for 2007 (2,28%)	2,6
	2) <i>Estimated recettes de tiers</i>	5,1 (**)
Total du crédit		121,7
Crédits déjà réservés par un autre programme de travail		
Solde disponible dont:		
- Contributions to RSFF		5,420
- CORDIS		0,230
- COST		0,986
- Eureka		0,026
- ERA NET		0,329
- GALILEO (GNSS Supervisory Authority)		40,0
- SESAR		10,0
- Calls for proposals		64,0
- Evaluation		0,3
- Monitoring		0,4
Montant de l'action proposée		121,7

(*) Ce montant provient de l'avant-projet de budget (APB) 2007 et est à considérer comme provisoire sous réserve de son acceptation par l'Autorité budgétaire.

(**) Des recettes de pays tiers seront utilisées, mais leur valeur au stade actuel n'est pas connue exactement.

■ 3.b. - Reports à l'exercice (2008)

Not applicable.

■ 3.c. - Exercice suivant (2008)

Not applicable.

4. DESCRIPTION DE L'ACTION

L'objectif de cette action est conforme aux commentaires publiés à l'avant projet de budget 2007 pour cette ligne budgétaire.

5. MODE DE CALCUL ADOPTE

The EFTA/EEA contribution is calculated as 2,28% and corresponds to 2,6 M€.

The amount of around 5,1 M€ corresponds to estimated *recettes de tiers* (***).

It is planned to spend the estimated funding of 121,7 M€ on:

- a call for an indicative budget of 60 M€ in the area of surface transport in the following activities: Research and technological development in Inland Waterway Transport, Maritime and logistics co-ordination platform (MTCP II), Benchmarking for quality logistics and promotion of short sea shipping and intermodality, CIVITAS projects;
- a call for an indicative budget of 4 M€ in the area of aeronautics, for an Airport Simulation Platform;
- the financing of the GALILEO activities (40,0 M€) which will be managed by the GNSS Supervisory Authority (identified as beneficiary in the work programme);
- the financing of activities related to the SESAR (transfer to the SESAR Joint Undertaking) (10,0 M€);
- evaluation of FP7 projects (0,3 M€);
- monitoring of previous FP's projects (0,4 M€).

The amount of 6,991 M€ in total will be contributed to the general activities:

- RSFF (5,420 M€);
- CORDIS (0,230 M€);
- COST (0,986 M€);
- Eureka (0,026 M€);
- ERA NET (0,329 M€).

The call for proposals will be launched in December 2006 with a closing date in May 2007. The budgetary impact concerns the year 2007.

PAIEMENTS

The foreseen payments of 15,500 M€ in 2007 will be used to cover the costs of projects' evaluation and monitoring as well as to pay the contributions to horizontal activities and to finance the activities of SESAR and GALILEO.

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne(s)	Engagements (M€)	Paiements(M€)					Exercices ultérieurs
			2007	2008	2009	2010	
060602	2007 (n)	121,7	15,500	28,000	28,000	25,000	25,2
	Total (****)	121,7	15,500	28,000	28,000	25,000	25,2

(***) Des recettes de pays tiers seront utilisées, mais leur valeur au stade actuel n'est pas connue exactement.

(****) Ce montant provient de l'avant-projet de budget (APB) 2007 (incluant l'AELE au taux de 2,28%) et est à considérer comme provisoire sous réserve de son acceptation par l'Autorité budgétaire.

4. FICHE D'IMPACT BUDGETAIRE
DG RTD – DIRECTION L

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S): 08 RECHERCHE

ACTIVITE(S): 08. COOPERATION DANS LE DOMAINE DES SCIENCES SOCIO-ECONOMIQUES ET SCIENCES HUMAINES.

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

08. 08 01 - COOPERATION DANS LE DOMAINE DES SCIENCES SOCIO-ECONOMIQUES ET SCIENCES HUMAINES.

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

□ 3.a. - Exercice 2007

		CE (en €)
Crédit initial de l'exercice (budget)		68 617 000
Virements		
Crédit supplémentaire	AELE 2.28%	1 564 467,6
Total du crédit		70 181 467,6

Crédits déjà réservés par un autre programme de travail		0
Solde disponible		70 181 467,6
Calls (*)		57.286.399,6
Experts évaluateurs		500.000
Other (**)		10.400.000(***)
RSFF		N/A
Cordis		138.480
COST		593.486
Eureka		15.826
ERA nets		1.247.276
Montant de l'action proposée		70 181 467,6

(*) Calls for proposals

(**) e.g. conferences, support actions for impact assessment, studies

(***) The amount of 10.400.000 € includes all the actions that will be implemented through public procurement, and by expert groups (not evaluators)

3. b. – c. Non applicable

4. DESCRIPTION DE L'ACTION

The work programme will be implemented primarily through calls for proposals that will draw on the budget foreseen for the year 2007. Priority will be given to supporting collaborative research projects than on new structuring initiatives.

MODE DE CALCUL ADOPTE

One Call will be published for Socio-economic sciences and Humanities (SSH) with 2 different Closure Dates. (the closure dates are: 01/05/2007 and 01/10/2007)

CALCUL PAIEMENTS:

Given that the second date of closure is only in October 2007 only few contracts will be signed before the end of 2007 and therefore only 3 Mill Euro were asked as payment appropriations.

The evaluators for the first date of closure (01/05/2007) will be all paid in 2007. The evaluators for the second date of closure will not be all paid as the end of the evaluation is planned by the end of November.

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne	Engagements	Paiements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
08.08.01	Année 2007					
Total (*)	70 181 467,6	3.068.400	20.456.000	20.456.000	20.456.000	5.745.068

(*) Les montants totaux reprennent les montants APB 2007 incluant l'AELE au taux de 2,28%.

4. FICHE D'IMPACT BUDGETAIRE

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S):08 RECHERCHE

ACTIVITE(S): 02 04 01 02 - Coopération — Espace

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

Article – 02 04 01 02 - COOPERATION – SPACE

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

■ **3.a. - Exercice 2007**

		CE (en €)
Crédit initial de l'exercice (budget)		86.768.155
Virements		
Crédit supplémentaire	AELE 2.28%	1.978.314
Total du crédit		88.746.469
Crédits déjà réservés par un autre programme de		0

travail		
Solde disponible		88.746.469
Calls		34.500.000
Experts évaluateurs		528.266
Other (*)		48.000.000
RSFF		4.522.438
Cordis		175.112
COST		750.480
Eureka/Research org.		20.013
ERA NET		250.160
Montant de l'action proposée		88.746.469

(*) e.g. pre-defined beneficiary actions in work programme, and conferences

4. DESCRIPTION DE L'ACTION

L'objectif de cette action est conforme aux commentaires publiés à l'avant projet du budget 2007 pour ce poste.

5. MODE DE CALCUL ADOPTE

Le tableau récapitulatif intégré à cette programme de travail détaille la repartition financière par activité, sujet et régime de financement de cette Thème.

(1) Ce montant ne reprend pas les recettes tiers de 2006

(2) Ce montant ne reprend pas les recettes tiers de 2007

Ces 34.5 M€ soumis a décision de la Commission proviennent de l'action propose Call FP7-SPA-2007-1.

The budgetary amount indicated above for RSFF is transferred to activities described in Annex 4 to the Specific Programme Cooperation.

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne	Engagements	Paielements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
02 04 01 02	Année 2007					
<i>APB 2007</i>	86.768.155	20.618.203	5.412.244	17.353.631	17.353.631	26.030.447
AELE	1.978.314	1.978.314	0	0	0	0

Total	88.746.469	22.596.517	5.412.244	17.353.631	17.353.631	26.030.447
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4. FICHE D'IMPACT BUDGETAIRE

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S): RESEARCH

ACTIVITÉ(S): CO-OPERATION - SECURITY

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

02 04 01 01 : RECHERCHE DANS LE DOMAINE DE L'ESPACE ET DE LA SECURITE

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

■ 3.a. - Exercice en cours

		CE (en €)
Crédit initial de l'exercice (budget)		84.947.845,-
Virements		
Crédit supplémentaire	AELE 2.28%	1.936.811,-
Total du crédit		86.884.656,-
Crédits déjà réservés par un autre programme de travail		0,-

Solde disponible		86.884.656,-
Calls		80.300.000,-
Experts évaluateurs		800.000,-
Other (*)		186.415,-
RSFF		4.427.562,-
Cordis		171.438,-
COST		734.736,-
Eureka/Research org.		19.593,-
ERA-NET		244.912,-
Montant de l'action proposée		86.884.656,-

(*) e.g. conferences, support actions for impact assessment, monitoring, ad hoc grants

4. DESCRIPTION DE L'ACTION

L'objectif de cette action est conforme aux commentaires publiés à l'avant projet du budget 2007 pour ce poste.

5. MODE DE CALCUL ADOPTE

Le tableau récapitulatif intégré à ce programme de travail détaille la répartition financière par activité, sujet et régime de financement de cette Thème.

(1) Ce montant ne reprend pas les recettes tiers de 2007

Ces 80.300.000,-€ soumis à décision de la Commission proviennent de l'action proposée Call FP7-SEC-2007-1.

The budgetary amount indicated above for RSFF is transferred to activities described in Annex 4 to the Specific Programme Cooperation.

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne	Engagements	Paievements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
02 04 01 01	Année 2007					
APB 2007	84.947.845,-	12.000.000,-	12.000.000,-	16.000.000,-	16.000.000,-	24.300.000,-
AELE	1.936.811,-	1.936.811,-	0,-	0,-	0,-	0,-
Total	86.884.656,-	13.936.811,-	12.000.000,-	16.000.000,-	16.000.000,-	24.300.000,-

4. FICHE D'IMPACT BUDGETAIRE
DG RTD – DIRECTION B

(cf. Article 16 des R.I.)

4A) FICHE A UTILISER LORSQUE LE PROGRAMME DE TRAVAIL VAUT DECISION DE FINANCEMENT (OU POUR SA REVISION)

DOMAINE(S) POLITIQUE(S):08 RECHERCHE

ACTIVITÉ(S): 08.09 –COOPÉRATION : RISK-SHARING FINANCE FACILITY (EIB)

PROGRAMME DE TRAVAIL POUR L'ANNEE: 2007

1. LIGNE(S) BUDGÉTAIRE(S) CONCERNEE(S) + INTITULÉ(S)

08.09 01 – Cooperation : Risk-sharing Finance Facility (EIB)

2. BASE LEGALE

Articles 163 à 173 du Traité instituant la Communauté européenne, et en particulier son article 166, paragraphe 1, tel que mis en contexte dans les décisions suivantes.

Décisions relatives au 7^{ème} Programme Cadre de RTD telles que reprises à l'avant projet de budget 2007.

Décision n°XXX/2006/CE du Parlement européen et du Conseil du XX/XX/2006 relative au septième programme-cadre de la Communauté européenne pour des activités de recherche, de développement technologique et de démonstration (2007-2013) (JO L...).

Décision n°XXX/XXX/CE du Conseil du XX/XXX/XXX arrêtant un programme spécifique de recherche, de développement technologique et de démonstration : "Programme Spécifique - Thème" (2007-2013) (JO L...)

3. DONNÉES CHIFFRÉES GLOBALES DE L'EXERCICE (EN EUROS)

Sous réserve de l'adoption définitive du budget 2007

3.a. - Exercice 2007

		CE (en €)
Crédit initial de l'exercice (budget)		
Virements		
Crédit supplémentaire	Pro-rata contribution of all themes under SP Cooperation except "Humanities and Social Sciences" ¹	160 000 000

¹ The indicative budgets for the "Cooperation" and "Capacities" specific programmes (SP) include contributions to the European Investment Bank (EIB) for the constitution of the RSFF referred to in Annex III to the FP7 Decision : the amount made available out of FP7, being matched by an equivalent amount from the EIB, will come from the "Cooperation" SP (up to EUR 800 million by proportional contribution of all thematic priorities, except socio-economic sciences and humanities) and the "Capacities" SP (up to EUR 200 million from the research infrastructure line).

Total du crédit		160 000 000
Crédits déjà réservés par un autre programme de travail		
Solde disponible		160 000 000
Calls		
Experts évaluateurs		
Other		
RSFF		160 000 000
Cordis		
CCST		
Eureka		
ERA nets		
Montant de l'action proposée		160 000 000

3. B – C Non applicable

4. DESCRIPTION DE L'ACTION

RSFF is a new mechanism introduced in FP7 for encouraging more private sector finance for European RTD actions.

It is proposed that part of the FP7 budget – instead of being used as a grant – is invested, on a revolving basis, in the form of provisions and capital allocation at the European Investment Bank.

The implementation of the facility should allow:

- Financing by the EIB of (i) a **larger lending volume** to RTD projects, and (ii) **riskier** (yet “bankable”) RTD projects.
- Generation of a **leverage effect** of public funding on private investment in RTD, so that € 1 of Community funds allocated to the scheme could generate between 4 and 6 euros invested in European RTD projects.

5. MODE DE CALCUL ADOPTE

The Council has proposed an amount of up to 1 billion € to be allocated to the instrument through the FP7 budget over the period 2007-2013. The EIB will also allocate an amount of up to 1 billion € to RSFF that will cover RTD as well as Innovation.

The Council has agreed on the 24 July that “in order to ensure a rapid launch with a critical mass of resources, an amount of the order of 500 million € will be progressively allocated in the budget for the period up to the interim evaluation of the 7th FP”.

An amount of 200 million € for the period 2007-2008 for Commitment Appropriations has been established in order to be in line with the objectives of “rapid launch” and of “matching-funds” between EIB and the Community. This amount will be committed entirely in 2007. More specifically, 160 M€ will be committed under the SP Cooperation (Budget line 08.09.01) and 40 M€ under the SP Capacities (Budget line 08.18.01).

6. ECHEANCIER DE PAIEMENTS (EN EUROS)

Ligne	Engagements	Paievements				
		Année 2007	Année 2008	Année 2009	Année 2010	Exercices ultérieurs
Multi-line	160,000,000	14,000,000	146,000,000	0	0	0
AELE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Total	160,000,000	14,000,000	146,000,000	0	0	0