

## New Framework Programme calls for proposals launched by the European Commission

The European Commission has launched its latest round of calls for proposals, which will make available some 6.4 billion Euros in European research and innovation over the next year or so, on 20 July 2010. This is the biggest package ever from the Seventh Research Framework Programme, itself the biggest single such programme in the world, with well over 50 billion euro of funding for the period 2007 to 2013.

There will be about 16 000 opportunities for organisations to participate in specific projects – of course some organisations will take part in more than one. Individual scientists will also be supported with significant amounts of European funding. The areas covered include medicine, transport, biotechnology, nanotechnologies, information and communication technologies, energy, the environment, space and the economy. The calls will also contribute to tackling the big societal challenges we face: climate change, energy and food security, health and an ageing population.

Details of the calls for proposals, with appropriate links to the Cordis website for more information are given below. Topics which **target international cooperation** (international partners obligatory) are indicated in **red**, those that **target India specifically** are indicated in **bold**.

You can get information on these and other open Calls for Proposals from <http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7CallsPage&rs>

### COOPERATION

#### HEALTH

#### FOOD, AGRICULTURE AND FISHERIES, AND BIOTECHNOLOGIES

#### INFORMATION AND COMMUNICATION TECHNOLOGIES

#### NANOSCIENCES, NANOTECHNOLOGIES, MATERIALS AND NEW PRODUCTION TECHNOLOGIES (NMP)

#### ENERGY

#### ENVIRONMENT (INCLUDING CLIMATE CHANGE)

#### TRANSPORT (INCLUDING AERONAUTICS)

#### SOCIO-ECONOMIC SCIENCES AND HUMANITIES

#### SPACE

#### GENERAL ACTIVITIES (ERA-NETS)

#### JOINT TECHNOLOGY INITIATIVES (FUEL CELLS AND HYDROGEN)

### IDEAS

#### ERC STARTING INDEPENDENT RESEARCHER GRANT

### PEOPLE

#### MARIE CURIE INITIAL TRAINING NETWORKS

#### MARIE CURIE INDUSTRY-ACADEMIA PARTNERSHIPS AND PATHWAYS

#### MARIE CURIE INTERNATIONAL OUTGOING FELLOWSHIPS

#### MARIE CURIE INTERNATIONAL INCOMING FELLOWSHIPS

### CAPACITIES

#### RESEARCH INFRASTRUCTURES

#### SCIENCE IN SOCIETY

#### ACTIVITIES OF INTERNATIONAL COOPERATION

## COOPERATION:

### HEALTH

**Call Title** HEALTH-2011-single-stage  
**Call identifier** FP7-HEALTH-2011-single-stage  
**Date of Publication** 20 July 2010  
**Deadline** 10 November 2010 at 17:00 Brussels local time  
**Indicative Budget:** 160.5 M€

**Topics called:** **Biotechnology, Generic Tools and Medical Technologies for Human Health**  
*High-Throughput Research:* High throughput proteomics for human health and disease  
*Innovative Therapeutic Approaches and Interventions:* High impact research initiative for better immunisation; New therapeutic approaches in chronic inflammatory and autoimmune diseases

#### **Translating Research for Human Health**

*Large-scale data gathering:* High impact research initiative on the human epigenome; Population genetics studies on cardio-metabolic disorders in EU/AC and EECA populations

*Brain and brain-related diseases:* **Creating clinical and molecular tools for experimental therapy of paediatric neurodegenerative disorders causing childhood dementia in Europe and India**

*Anti-microbial drug resistance:* Multidisciplinary research on the evolution and transfer of antibiotic resistance; Management of Gram negative multi-drug resistant infections

*Potentially new and re-emerging epidemics:* **Comprehensive control of Dengue fever under changing climatic conditions**

*Cancer:* Epidemiology and aetiology of infection-related cancers

#### **Optimising the Delivery of Healthcare to European Citizens**

*Health promotion:* Developing and implementing methods for the transfer of research into policy in the fields of health promotion and disease prevention; A road-map for mental health research in Europe

*International Public Health and Health Systems:* **Development and assessment of comprehensive and integrated interventions and programmes to improve reproductive health and health equity;** Building sustainable capacity for research for health and its social determinants in low and middle income countries; Multilateral cooperation between Europe, Africa and Latin America on public health and health services research

#### **Other Actions across the Health Theme**

*Coordination and Support Actions across the Theme:* Networking of major research institutions to coordinate communication actions aimed at the media and the general public; Targeting publication bias; Linking EU and Latin American policy making institutions in the field of health research; Organisation of supporting actions and events related to the Presidency of the European Union

*Responding to EU Policy Needs:* Investigator driven clinical trials on off-patent medicines for children; Adverse drug reaction research; New methodologies for clinical trials in personalised medicine

#### **For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=323](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=323)

**Call Title** HEALTH-2011-two-stage  
**Call identifier** FP7-HEALTH-2011-two-stage  
**Date of Publication** 20 July 2010  
**Deadline** 13 October 2010 at 17:00 Brussels local time for Stage 1  
**Indicative Budget:** 498 M€

**Topics called:** **Biotechnology, Generic Tools and Medical Technologies for Human Health**

*High-Throughput Research:* SME-targeted research for developing tools and technologies for high-throughput research; Genome-based biomarkers for patient stratification and pharmacogenomic strategies

*Innovative Therapeutic Approaches and Interventions:* Regenerative medicine clinical trials; Tools, technologies and devices for application in regenerative medicine; Development and production of new, high-affinity protein scaffolds for therapeutic use

#### **Translating Research for Human Health**

*Large-scale data gathering:* Proteins and their interactions in health and disease; Large-scale genomics approaches to identify host determinants of infectious diseases

*Brain and brain-related diseases:* Investigator driven clinical trials for childhood-onset neurodegenerative diseases; Understanding the role of neuroinflammation in neurodegenerative diseases; Addictive and/or compulsive behaviour in children and adolescents: translating pre-clinical results into therapies

*Human development and ageing:* Investigator driven clinical trials for therapeutic interventions in elderly populations; Linking human development and ageing

*Anti-microbial drug resistance:* Investigator driven clinical trials of off-patent antibiotics; Development of multi-analyte diagnostic tests; Development of tools to control microbial biofilms with relevance to clinical drug resistance

*Potentially new and re-emerging epidemics:* Identification of factors promoting the emergence of pathogens with human pandemic potential from pathogens with a zoonotic background and related prevention strategies; Development of an evidence-based behavioural and communication package to respond to major epidemic outbreaks

*Cancer:* Investigator driven treatment trials for rare cancers; Translational research on cancers with poor prognosis

*Cardiovascular diseases:* Investigator driven clinical trials for the management of cardiovascular diseases; Evaluation and validation studies of clinically useful biomarkers in prevention and management of cardiovascular diseases

*Diabetes and obesity:* Investigator driven clinical trials to reduce diabetes complications; Development of novel treatment strategies based on knowledge of cellular dysfunction; Molecular and physiological effects of lifestyle factors on diabetes/obesity; **Genetic and environmental factors in obesity and/or diabetes in specific populations**

#### **Optimising the Delivery of Healthcare to European Citizens**

*Health promotion:* Developing methodologies to reduce inequities in the determinants of health; Analysis of integrated strategies for sustainable behaviour change

#### **For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=324](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=324)

### **FOOD, AGRICULTURE AND FISHERIES, AND BIOTECHNOLOGIES**

<b>Call Title</b>	<b>KBBE-2011</b>
<b>Call identifier</b>	FP7-KBBE-2011-5
<b>Date of Publication</b>	20 July 2010
<b>Deadline</b>	25 January 2011 at 17:00 Brussels local time
<b>Indicative Budget:</b>	240 M€

**Topics called: Sustainable production and management of biological resources from land, forest and aquatic environments**

Promoting conifer genomic resources; Integrated approach to studying effects of combined biotic and abiotic stress in crop plants; Efficiency of ruminant digestive systems and reduction of the ecological footprint through a combination of systems biology, 'omics' and nutrition; Sustaining and managing forest tree genetic resources; Sustainable management of agricultural soils in Europe for enhancing food and feed production and contributing to climate change mitigation; Reducing mineral fertilisers and chemicals use in agriculture by recycling treated organic

waste as compost and bio-char products; Development of cover crop and mulch systems for sustainable crop production; Translating knowledge on flowering time to improve breeding efficiency; Root signalling, growth and development under abiotic stress conditions; Strategies to replace copper-based products as plant protection products in low input and organic farming systems; Preserving the multifunctionality of European Mountain forests; Beyond Maximum Sustainable Yield (MSY) in fisheries: defining management targets and their consequences; Socioeconomic effects of the main management principles of the future Common Fishery Policy (CFP): impact of new policy framework and opportunities for the fishing sector to develop self and co-management; Aquaculture feeds and fish nutrition: paving the way to the development of efficient and tailored sustainable feeds for European farmed fish; **New/next generation of researchers for Neglected Zoonoses at the animal-human interface**; Development of field tests for rapid screening of pathologies as well as simple laboratories tests in animals; European interprofessional network addressing zoonotic diseases transmitted via companion animals; Management and control of increased livestock helminths parasite infection risks due to global changes; Development of next generation European system for cattle evaluation; Strengthening the impact of fisheries related research through dissemination, communication and technology transfer; Feasible and cost-effective crop-specific coexistence measures; The CAP and landscape management; Data network for better European organic market information; **Role of aquaculture in improving food security and eradicating poverty worldwide**;

#### **Fork to farm: Food (including seafood), health and well being**

Strategies for improving communication between social and consumer scientists, food technology developers and consumers; Development of functional foods and ingredients; New technologies and tools and their potential application to nutrition research; Long-term influence of early nutrition on health; **Translation mechanisms for targeting interventions on micro-nutrients**; Sustainable cleaning and disinfection technologies; Food Factory of the Future – Design Study; Advanced and flexible technologies for active, intelligent and sustainable food packaging; Satiety control through food structures made by novel processing; Processed foods with lower salt, fat and sugar content; Safety and quality of ready-to-eat foods; Pan-European Total Diet Study; Environmental sustainability in the European food and drink chain; **Reducing post-harvest losses for increased food security**; Food science and the retail sector: a platform for preparing the effective integration of research findings within innovative concepts and applications

#### **Life sciences, biotechnology and biochemistry for sustainable non-food products and processes**

Plant photosynthetic efficiency: from a C3 to a C4 system; **Perennial grasses: optimising biomass production**; Marine biotechnology ERA-NET preparatory action; Biocatalysis for chiral compounds; Cellular, metabolic and genetic engineering for novel compounds; **BioWASTE – Novel biotechnological approaches for transforming industrial and/or municipal biowaste into bioproducts**; Towards a sustainable bio-industry – Biotechnology for renewable chemicals and innovative downstream processes; GM crops in the EU – systematically assessing environmental and economic impacts; Increasing the accessibility, usability and predictive capacities of bioinformatics tools for biotechnology applications; Supporting the development of Bioinformatics Infrastructures for the effective exploitation of genomic data; Beyond health applications; Towards standardisation in Synthetic Biology; Applying Synthetic Biology principles towards the cell factory notion in biotechnology; Ensuring the safety of Synthetic Biology applications

#### **Other activities**

Networking of KBBE relevant ERA-NETs; Communication of research results; Energy Efficiency in Agriculture; **EU – India Partnering Initiative on biomass production and biowaste conversion through biotechnological approaches**; Bio-Economy Promotion

#### **For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=333](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=333)

**Call Title** the ocean of tomorrow - Cross-Thematic cooperation between FAB, Energy, Environment and Transport Themes  
**Call identifier** FP7-OCEAN-2011  
**Date of Publication** 20 July 2010  
**Deadline** 18 January 2011 at 17:00 Brussels local time  
**Indicative Budget:** 45 M€ (14 M€ from this theme)

**Topics called:** **Call "The ocean of tomorrow"– Joining research forces to meet challenges in ocean management**  
Multi-use offshore platforms; Marine microbial diversity – new insights into marine ecosystems functioning and its biotechnological potential; **Assessing and predicting the combined effects of natural and human-made pressures in the Mediterranean and the Black Sea in view of their better governance; Knowledge-base and tools for regional networks of MPAs, integrated management of activities together with assessment of wind energy potential in the Mediterranean and the Black Sea**

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=343](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=343)

### **INFORMATION AND COMMUNICATION TECHNOLOGIES**

**Call Title** FET Open  
**Call identifier** FP7-ICT-2011-C  
**Date of Publication** 20 July 2010  
**Deadline** 12 March 2013 at 17:00 Brussels local time (continuous call (proposals receivable from 4 August 2010) - intermediate deadlines 17 May 2011, 25 October 2011, 10 April 2012, 25 September 2012)  
**Indicative Budget:** 46 M€

**Topics called:** **Future and emerging technologies**  
FET-Open: Challenging current thinking; High-Tech Research Intensive SMEs in FET research; FET Young Explorers; **International Cooperation in FET research** ([http://cordis.europa.eu/fp7/ict/programme/fet\\_en.html](http://cordis.europa.eu/fp7/ict/programme/fet_en.html))

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=319](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=319)

**Call Title** Future Internet-2011  
**Call identifier** FP7-2011-ICT-FI  
**Date of Publication** 20 July 2010  
**Deadline** 2 December 2010 17:00 Brussels local time  
**Indicative Budget:** 90 M€

**Topics called:** **Pervasive and Trusted Network and Service Infrastructures**  
Technology foundation: Future Internet Core Platform; Use Case scenarios and early trials (Phase 1); Capacity Building and Infrastructure Support (Phase 1); Programme Facilitation and Support

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=328](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=328)

**Call Title** ICT for Green Cars 2011 - Cross-Thematic cooperation between NMP, Energy, Environment, Transport and ICT Themes  
**Call identifier** FP7-2011-ICT-GC  
**Date of Publication** 20 July 2010  
**Deadline** 2 December 2010 17:00 Brussels local time  
**Indicative Budget:** 30 M€

**Topics called:** ICT for fully electric vehicles

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=331](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=331)

**Call Title** **Energy efficient buildings** - Cross-Thematic cooperation between NMP, ICT, Energy and Environment Themes  
**Call identifier** FP7-2011-NMP-ENV-ENERGY-ICT-EeB  
**Date of Publication** 20 July 2010  
**Deadline** 2 December 2010 17:00 Brussels local time  
**Indicative Budget:** 85.5 M€ (20 M€ from this theme)

**Topics called:** ICT for energy-efficient buildings and spaces of public use

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=355](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=355)

**Call Title** **factories of the future** - Cross-Thematic cooperation between NMP and ICT Themes  
**Call identifier** FP7-2011-NMP-ICT-FoF  
**Date of Publication** 20 July 2010  
**Deadline** 2 December 2010 17:00 Brussels local time  
**Indicative Budget:** 160 M€ (80 M€ from this theme)

**Topics called:** Virtual Factories and enterprises; Digital factories: Manufacturing design and product lifecycle management

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=339](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=339)

**Call title** **FET Open scheme**  
**Call identifier** FP7-ICT-2009-C  
**Date of Publication** 11 November 2008  
**Deadline** 24 May 2011 at 17:00 Brussels local time (continuous call - intermediate deadlines 26 January 2010, 6 July 2010, 28 September 2010, 25 January 2011)  
**Indicative Budget:** 61 M€

**Topics called:** **Future and emerging technologies**  
FET-Open: Challenging current thinking  
([http://cordis.europa.eu/fp7/ict/programme/fet\\_en.html](http://cordis.europa.eu/fp7/ict/programme/fet_en.html))

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=189](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=189)

**NANOSCIENCES, NANOTECHNOLOGIES, MATERIALS AND NEW PRODUCTION TECHNOLOGIES (NMP)**

**Call title** **NMP-CSAs**  
**Call identifier** FP7-NMP-2011-CSA-5  
**Date of Publication** 20 July 2010  
**Deadline** 1 February 2011 at 17:00 Brussels local time  
**Indicative Budget:** 12 M€

**Topics called:** **Ensuring the safety of Nanotechnology**  
Intelligent testing strategies for nanomaterials impact and exposure – towards regulation and clustering of materials; European platform on Nano Outreach and Dialogue (NODE)

### Structuring actions

Networking of materials laboratories and innovation actors in various industrial sectors for product or process innovation

#### For more information:

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=351](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=351)

**Call title**                    **Sustainable automotive electrochemical storage** - Cross-Thematic cooperation between NMP, Environment and Transport Themes  
**Call identifier**                FP7-2011-GC-ELECTROCHEMICAL-STORAGE  
**Date of Publication**        20 July 2010  
**Deadline**                    2 December 2010 at 17:00 Brussels local time  
**Indicative Budget:**        25.5 M€ (10 M€ from this theme)

**Topics called:**            Advanced eco-design and manufacturing processes for batteries and electrical components

#### For more information:

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=349](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=349)

**Call Title**                    **Energy efficient buildings** - Cross-Thematic cooperation between NMP, ICT, Energy and Environment Themes  
**Call identifier**                FP7-2011-NMP-ENV-ENERGY-ICT-EeB  
**Date of Publication**        20 July 2010  
**Deadline**                    2 December 2010 17:00 Brussels local time  
**Indicative Budget:**        85.5 M€ (40 M€ from this theme)

**Topics called:**            Materials for new energy efficient building components with reduced embodied energy; New efficient solutions for energy generation, storage and use related to space heating and domestic hot water in existing buildings; Energy saving technologies for buildings envelope Retrofitting; Geo-clusters approach to support European energy efficiency goals

#### For more information:

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=355](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=355)

**Call Title**                    **factories of the future** - Cross-Thematic cooperation between NMP and ICT Themes  
**Call identifier**                FP7-2011-NMP-ICT-FoF  
**Date of Publication**        20 July 2010  
**Deadline**                    2 December 2010 17:00 Brussels local time  
**Indicative Budget:**        160 M€ (80 M€ from this theme)

**Topics called:**            The eco-factory: cleaner and more resource-efficient production in manufacturing; Cooperative machines and open architecture control system; Robots for automation of postproduction and other auxiliary processes; High-tech solutions in the production processes for customised healthy, green and safe consumer products; Towards zero-defect Manufacturing; Manufacturing chains for nanophased component and coatings

#### For more information:

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=339](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=339)

#### For more information:

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=355](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=355)

**Call Title**                    **NMP – Environment Call** - Cross-Thematic cooperation between NMP and Environment Themes

**Call identifier** FP7-ENV-NMP-2011  
**Date of Publication** 20 July 2010  
**Deadline** 16 November 2010 17:00 Brussels local time  
**Indicative Budget:** 12 M€ (6 M€ from this theme)

**Topics called:** Development of advanced compatible materials and techniques and their application for the protection, conservation and restoration of cultural heritage assets

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=367](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=367)

**Call Title** **NMP – Energy Call** - Cross-Thematic cooperation between NMP and Energy Themes  
**Call identifier** FP7-NMP-ENERGY-2011  
**Date of Publication** 20 July 2010  
**Deadline** 25 November 2010 17:00 Brussels local time  
**Indicative Budget:** 25 M€ (15 M€ from this theme)

**Topics called:** Development and up-scaling of innovative photovoltaic cell processes and architectures to pilot-line scale for industrial application

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=363](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=363)

**Call Title** **NMP - LARGE 2011**  
**Call identifier** FP7-NMP-LARGE-2011-5  
**Date of Publication** 20 July 2010  
**Deadline** 4 November 2010 17:00 Brussels local time  
**Indicative Budget:** 118 M€

**Topics called:** **Maximising the contribution of nanotechnology to sustainable development**  
Smart and multifunctional packaging concepts utilizing nanotechnology

**Nanotechnology for benefiting environment, energy and health**

New targeted therapy using nanotechnology for transport of macro-molecules across biological barriers

**Cross-cutting and enabling R&D**

Large-scale green and economical synthesis of nanoparticles and nanostructures; Development of nano-scale detection and control techniques for large area substrates

**Innovative materials for advanced applications**

Novel superconducting materials, architectures and processes for electrotechnical applications

**Rapid transfer and integration of new technologies into the design and operation of manufacturing processes**

Eco-efficient management of industrial water

**Integration of technologies for industrial applications**

New technologies based on physical processing of materials for mechanical or electro-technical applications; Advanced underground technologies for intelligent mining and for inspection, maintenance and excavation

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=370](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=370)

**Call Title** NMP - SMALL 2011  
**Call identifier** FP7-NMP-SMALL-2011-5  
**Date of Publication** 20 July 2010  
**Deadline** 4 November 2010 17:00 Brussels local time  
**Indicative Budget:** 99.5 M€

**Topics called:**

- Nanotechnology for benefiting environment, energy and health**  
Active nanomembranes/-filters/-adsorbents for efficient water treatment with stable or regenerable low-fouling surfaces
- Ensuring the safety of Nanotechnology**  
Worker protection and exposure risk management strategies for nanomaterial production, use and disposal
- Cross-cutting and enabling R&D**  
Nanotechnology based implantable and interfaceable devices
- Enabling research and development**  
Modelling of ultrafast dynamics in materials
- Innovative materials for advanced applications**  
Biomaterials for tissue engineering for age-related cancer and sensory organ diseases; Materials for solid state lighting; Novel materials for replacement of critical materials (platinum group metals and rare earths)
- Structuring actions**  
Advanced packaging materials from renewable biogenic resources
- Development and validation of new industrial models and strategies**  
Eco-design for new products
- Adaptive production systems**  
Modelling and control of intensified process systems

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=369](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=369)

**Call Title** NMP - SMEs 2011  
**Call identifier** FP7-NMP-SME-2011-5  
**Date of Publication** 20 July 2010  
**Deadline** 4 November 2010 17:00 Brussels local time  
**Indicative Budget:** 40 M€

**Topics called:**

- Ensuring the safety of Nanotechnology**  
New methods for measuring, detection and identification of nanoparticles in products and/or in the environment
- Cross-cutting and enabling R&D**  
Tools and methodologies for imaging structures and composition at the nanometre scale
- Enabling research and development**  
Research and innovation for advanced multifunctional ceramic materials
- Integration of technologies for industrial applications**  
Advanced textiles for the energy and environmental protection markets

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=368](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=368)

## **ENERGY**

**Call Title** Energy Call part 2  
**Call identifier** FP7-ENERGY-2011-2  
**Date of Publication** 20 July 2010  
**Deadline** 7 April 2011 at 17:00 Brussels local time  
**Indicative Budget:** 137 M€

**Topics called:** **Photovoltaics**  
Productivity and cost optimization issues for the manufacturing of photovoltaic systems based on concentration; Development and demonstration of standardized building components

**Wind**  
Demonstration of innovative off-shore wind electricity generation structure

**Low/Medium Temperature Solar Thermal Energy**  
Low/Medium temperature solar thermal systems for industrial process heat; Materials for thermal storage systems; Advanced compact storage systems

**Crosscutting and Regulatory Issues**  
Optimising the integration of CO<sub>2</sub> capture into power plants; Improving efficiencies and reducing GHG emissions through CO<sub>2</sub> capture in industrial applications other than power generation; Support to the European CCS Demonstration Project Network; Storage and balancing variable electricity supply and demand

**Efficient Energy Use in the Manufacturing Industry and Building Sector**  
Energy efficiency demonstration in manufacturing industry; Energy efficiency in low-carbon industrial parks

### **For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=342](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=342)

**Call Title** Energy Call part 1  
**Call identifier** FP7-ENERGY-2011-1  
**Date of Publication** 20 July 2010  
**Deadline** 16 November 2010 at 17:00 Brussels local time  
**Indicative Budget:** 74 M€

**Topics called:** **Wind**  
Development of design tools for Offshore Wind farm clusters

**Concentrated Solar Power**  
Thermal energy storage for CSP plants; Advanced heat transfer fluids for CSP technology

**Cross-Cutting Issues in Renewable Fuel Production**  
Development of new or improved sustainable bio-energy carriers

**Low/Medium Temperature Solar Thermal Energy**  
Revisiting solar thermal systems for using breakthroughs in scientific and technological fields

**CO<sub>2</sub> Capture**  
High-efficiency post-combustion solvent-based capture processes

**CO<sub>2</sub> Storage**  
Understanding the long-term fate of geologically stored CO<sub>2</sub>

**Conversion Technologies for Zero Emission Power Generation**  
**Optimisation of IGCC technologies for use with high ash content coal**

### **Pan-European Energy Networks**

Innovative tools for the future coordinated and stable operation of the pan-European electricity transmission system; Innovative strategies and tools for the reliability assessment of the pan-European electricity transmission network

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=315](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=315)

**Call Title**                    **the ocean of tomorrow** - Cross-Thematic cooperation between FAB, Energy, Environment and Transport Themes  
**Call identifier**                FP7-OCEAN-2011  
**Date of Publication**        20 July 2010  
**Deadline**                      18 January 2011 at 17:00 Brussels local time  
**Indicative Budget:**        45 M€ (5 M€ from this theme)

**Topics called:**              **Call "The ocean of tomorrow"– Joining research forces to meet challenges in ocean management**  
Multi-use offshore platforms; Marine microbial diversity – new insights into marine ecosystems functioning and its biotechnological potential; **Assessing and predicting the combined effects of natural and human-made pressures in the Mediterranean and the Black Sea in view of their better governance; Knowledge-base and tools for regional networks of MPAs, integrated management of activities together with assessment of wind energy potential in the Mediterranean and the Black Sea**

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=343](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=343)

**Call Title**                    **Energy efficient buildings** - Cross-Thematic cooperation between NMP, ICT, Energy and Environment Themes  
**Call identifier**                FP7-2011-NMP-ENV-ENERGY-ICT-EeB  
**Date of Publication**        20 July 2010  
**Deadline**                      2 December 2010 17:00 Brussels local time  
**Indicative Budget:**        85.5 M€ (20 M€ from this theme)

**Topics called:**              Demonstration of very low energy new buildings

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=355](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=355)

**Call Title**                    **NMP – Energy Call** - Cross-Thematic cooperation between NMP and Energy Themes  
**Call identifier**                FP7-NMP-ENERGY-2011  
**Date of Publication**        20 July 2010  
**Deadline**                      25 November 2010 17:00 Brussels local time  
**Indicative Budget:**        25 M€ (10 M€ from this theme)

**Topics called:**              Development and up-scaling of innovative photovoltaic cell processes and architectures to pilot-line scale for industrial application

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=363](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=363)

### **ENVIRONMENT (INCLUDING CLIMATE CHANGE)**

**Call Title**                    **the ocean of tomorrow** - Cross-Thematic cooperation between FAB, Energy, Environment and Transport Themes

**Call identifier** FP7-OCEAN-2011  
**Date of Publication** 20 July 2010  
**Deadline** 18 January 2011 at 17:00 Brussels local time  
**Indicative Budget:** 45 M€ (16 M€ from this theme)

**Topics called:** **Call "The ocean of tomorrow"— Joining research forces to meet challenges in ocean management**  
Multi-use offshore platforms; Marine microbial diversity – new insights into marine ecosystems functioning and its biotechnological potential; **Assessing and predicting the combined effects of natural and human-made pressures in the Mediterranean and the Black Sea in view of their better governance; Knowledge-base and tools for regional networks of MPAs, integrated management of activities together with assessment of wind energy potential in the Mediterranean and the Black Sea**

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=343](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=343)

**Call title** **Sustainable automotive electrochemical storage** - Cross-Thematic cooperation between NMP, Environment and Transport Themes  
**Call identifier** FP7-2011-GC-ELECTROCHEMICAL-STORAGE  
**Date of Publication** 20 July 2010  
**Deadline** 2 December 2010 at 17:00 Brussels local time  
**Indicative Budget:** 25.5 M€ (5.5 M€ from this theme)

**Topics called:** Advanced eco-design and manufacturing processes for batteries and electrical components; Operational guidance for Life Cycle Assessment studies of the European Green Cars Initiative

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=349](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=349)

**Call Title** **Energy efficient buildings** - Cross-Thematic cooperation between NMP, ICT, Energy and Environment Themes  
**Call identifier** FP7-2011-NMP-ENV-ENERGY-ICT-EeB  
**Date of Publication** 20 July 2010  
**Deadline** 2 December 2010 17:00 Brussels local time  
**Indicative Budget:** 85.5 M€ (5.5 M€ from this theme)

**Topics called:** goals Technologies for ensuring, monitoring and/or controlling a high quality indoor environment particularly in relation to energy efficient buildings; Operational guidance for Life Cycle Assessment studies of the Energy Efficient Buildings Initiative

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=355](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=355)

**Call Title** **FP7-ENV-2011**  
**Call identifier** FP7-ENV-2011  
**Date of Publication** 20 July 2010  
**Deadline** 16 November 2010 at 17:00 Brussels local time  
**Indicative Budget:** 155 M€

**Topics called:** **Pressures on environment and climate**  
Improvement of the representation of critical climate processes in climate and Earth system models; The impact of atmospheric pollution on European land ecosystems and soil in a changing climate; Climate forcing of non UNFCCC gases, aerosols and black carbon; Vulnerability of Arctic permafrost to climate change and implications for global GHG emissions and future climate; **Impacts of climate and land use changes in the Amazon**; Impacts of a global temperature increase of 2°

from preindustrial level, in Europe and most vulnerable regions of the world; Mitigation policies and measures in the world's major economies compatible with the objective of limiting global surface temperature increase below 2°C

#### **Environment and health**

Environmental change and its effects on atopic diseases (allergies, asthma, eczema) in Europe; Combined exposures to environmental agents: integrated approaches to evaluate environment health relationships in children; Exposure to electromagnetic fields (EMF): investigations of mechanisms to support risk assessment and reduce uncertainty; Integrating ecological and human risk evaluations for better risk governance; Positive effects of natural environment for human health and well-being

#### **Natural Hazards**

Towards real-time earthquake risk reduction; Building societal resilience to disasters in Europe; Vulnerability and increased drought risk in Europe; **Risk prevention and management before volcanic eruptions**; Capacity building in natural hazards risks reduction

#### **Conservation and sustainable management of natural and man-made resources and biodiversity**

Lagoons in the context of climate change; Hydromorphology and ecological objectives of WFD; **Potential of biodiversity and ecosystems for the mitigation of climate change**; Behaviour of ecosystems, thresholds and tipping points; Improved comprehension of the utility of the concepts of value of biodiversity; Sustainable and Resilient Green Cities; Furthering Strategic Urban Research; Land-use and European forest ecosystems

#### **Environmental technologies for observation, simulation, prevention, mitigation, adaptation, remediation and restoration of the natural and man-made environment**

**Technologies for water scarcity mitigation in Latin American context; Natural water systems and treatment technologies to cope with water shortages in urbanised areas in India**

#### **Earth and ocean observation systems and monitoring methods for the environment and sustainable development**

**Integration and optimisation of information for building a Global Carbon Observing System**; Inter-operable integration of shared Earth Observations in the Global Context; **Developing increased EO capacity for better agriculture and forestry management in Africa**; **Assessing the ecosystem status, including fisheries, within the Mediterranean marine coastal areas of North African countries**

#### **Forecasting methods and assessment tools for sustainable development taking into account different scales of observation**

Efficiency assessment of environmental policy tools related to sustainability; Knowledge brokerage activities for engaging in a "beyond GDP" society; Community based management of environmental challenges; Sustainable Consumption and Production at the heart of green growth

#### **For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=366](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=366)

<b>Call Title</b>	<b>FP7-ENV-2011-ECO-INNOVATION-OneStage</b>
<b>Call identifier</b>	FP7-ENV-2011-ECO-INNOVATION-OneStage
<b>Date of Publication</b>	20 July 2010
<b>Deadline</b>	16 November 2010 at 17:00 Brussels local time
<b>Indicative Budget:</b>	50 M€

**Topics called:** Eco-innovation!; Development of ecoefficiency meso-level indicators for technology assessment; Macro-level Indicators to monitor the environmental impact of

innovation Dynamic e-dissemination systems and platforms for enterprises including SMEs to exploit results for ecoinnovation;

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=358](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=358)

**Call Title** FP7-ENV-2011-ECO-INNOVATION-TwoStage  
**Call identifier** FP7-ENV-2011-ECO-INNOVATION-TwoStage  
**Date of Publication** 20 July 2010  
**Deadline** 16 November 2010 at 17:00 Brussels local time for first stage  
**Indicative Budget:** 43 M€

**Topics called:** Eco-innovation!; Development of ecoefficiency meso-level indicators for technology assessment; Macro-level Indicators to monitor the environmental impact of innovation Dynamic e-dissemination systems and platforms for enterprises including SMEs to exploit results for ecoinnovation;

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=365](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=365)

**Call Title** NMP – Environment Call - Cross-Thematic cooperation between NMP and Environment Themes  
**Call identifier** FP7-ENV-NMP-2011  
**Date of Publication** 20 July 2010  
**Deadline** 16 November 2010 17:00 Brussels local time  
**Indicative Budget:** 12 M€ (6 M€ from this theme)

**Topics called:** Development of advanced compatible materials and techniques and their application for the protection, conservation and restoration of cultural heritage assets

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=367](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=367)

**TRANSPORT (INCLUDING AERONAUTICS)**

**Call Title** the ocean of tomorrow - Cross-Thematic cooperation between FAB, Energy, Environment and Transport Themes  
**Call identifier** FP7-OCEAN-2011  
**Date of Publication** 20 July 2010  
**Deadline** 18 January 2011 at 17:00 Brussels local time  
**Indicative Budget:** 45 M€ (10 M€ from this theme)

**Topics called:** **Call "The ocean of tomorrow"– Joining research forces to meet challenges in ocean management**  
Multi-use offshore platforms; Marine microbial diversity – new insights into marine ecosystems functioning and its biotechnological potential; **Assessing and predicting the combined effects of natural and human-made pressures in the Mediterranean and the Black Sea in view of their better governance; Knowledge-base and tools for regional networks of MPAs, integrated management of activities together with assessment of wind energy potential in the Mediterranean and the Black Sea**

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=343](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=343)

**Call Title** FP7-GALILEO-2011-ENTR-1  
**Call identifier** FP7-GALILEO-2011-ENTR-1  
**Date of Publication** 20 July 2010

**Deadline** 16 December 2010 at 17:00 Brussels local time  
**Indicative Budget:** 3 M€

**Topics called:** **Adapting Receivers to Requirements and Upgrading Core Technologies**  
Innovative receivers for the mass market or for professional uses

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=356](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=356)

**Call Title** **FP7-GALILEO-2011-GSA-1**  
**Call identifier** FP7-GALILEO-2011-GSA-1-a  
**Date of Publication** 20 July 2010  
**Deadline** 16 December 2010 at 17:00 Brussels local time  
**Indicative Budget:** 17.5 M€

**Topics called:** **User needs and mission evolution**  
Networks for universities and research institutes, and user for a

**International cooperation and awareness**  
**International Activities**

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=325](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=325)

**Call title** **Sustainable automotive electrochemical storage** - Cross-Thematic cooperation between NMP, Environment and Transport Themes  
**Call identifier** FP7-2011-GC-ELECTROCHEMICAL-STORAGE  
**Date of Publication** 20 July 2010  
**Deadline** 2 December 2010 at 17:00 Brussels local time  
**Indicative Budget:** 25.5 M€ (10 M€ from this theme)

**Topics called:** Advanced eco-design and manufacturing processes for batteries and electrical components

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=349](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=349)

**Call title** **AERONAUTICS and AIR TRANSPORT (AAT)-2011-RTD-1**  
**Call identifier** FP7-AAT-2011-RTD-1  
**Date of Publication** 20 July 2010  
**Deadline** 2 December 2010 at 17:00 Brussels local time  
**Indicative Budget:** 121.3 M€

**Topics called:** The Greening of Air Transport  
Systems approach to improved core engine thermal efficiency

**Increasing Time Efficiency**  
Integrated approach to total airport management for operational efficiency

**Ensuring Customer Satisfaction and Safety**  
Integrated approach to a human-centred cabin physical environment

**Improving Cost Efficiency**  
Integrated approach to smart airframe structures; Integrated approach to efficient propulsion and related aircraft systems for small-size aircraft; Integrated modular actuation systems for the future all-electric aircraft

**Pioneering the Air Transport of The Future - Breakthrough and emerging technologies**

Lift; Propulsion; Interior space; Life-cycle

**Pioneering the Air Transport of The Future – Step changes in air transportation operation**

Novel air transport vehicles; Guidance and control; Airports

**Pioneering the Air Transport of The Future – Promising pioneering ideas in air transport**

The cruiser/feeder concept; Take-off and landing with groundbased power; New sources of aircraft main propulsive power

**Cross-Cutting Activities**

Supporting the organization of conferences and events of special relevance to aeronautics and air transport research; Stimulating the participation of small and medium size enterprises (SME) and other small organizations for improved integration of the European Research Area; Assessing the role and needs of air freight in air transport; Assessing the educational needs of engineers and researchers in aeronautics and air transport; Technology support for crisis coordination for the air transport system following major disrupting events

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=335](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=335)

<b>Call title</b>	<b>SUSTAINABLE SURFACE TRANSPORT (SST)-2011-RTD-1</b>
<b>Call identifier</b>	FP7-SST-2011-RTD-1
<b>Date of Publication</b>	20 July 2010
<b>Deadline</b>	2 December 2010 at 17:00 Brussels local time
<b>Indicative Budget:</b>	91.25 M€

**Topics called: The Greening of Surface Transport – The greening of products and operations**

Green retrofitting through optimization of hull-propulsion interaction; Retrofitting of existing ships with green technologies; Towards zero emission marine engines; Energy consumption reduction in urban rail systems

**Encouraging Modal Shift and Decongesting Transport Corridors - Logistics and intermodal transport**

Efficient interfaces between transport modes

**Encouraging Modal Shift and Decongesting Transport Corridors – interoperability and safety**

Rail system interoperability (regulatory and non-legislative interoperability based on technological innovations

**Improving Safety and Security - Integrated safety and security for Surface transport systems**

Design of vehicle safety systems for a better protection of vulnerable road users and other under-protected and less safe user groups; Mitigation measures and good practice to reduce human fatalities and disruption of services resulting from suicides and trespasses on railways property; Reducing the occurrences and impacts of freight train derailments

**Strengthening Competitiveness – Competitive surface transport products and services**

Strengthening the European maritime transport sector competitiveness; Advanced and cost effective road infrastructure construction, management and maintenance; Cost-effective modernization of the inland fleet for freight transport; Exploring and fostering international collaboration in the waterborne transport sector; A system approach for railway operations management to increase capacity and decrease

delays for railway customers' satisfaction; Cost-effective improvement of rail transport infrastructure

**The 'European Green Cars Initiative'**

Specific safety issues of electric vehicles; Integrated thermal management; Efficient long distance transport – waste heat recovery; Urban–interurban shipments; **Integrated intermodal traveller services**; Capability of improving and exploiting capacity; Efficient long distance transport – future power train concepts (includes: advanced combustion and after-treatment); Architectures of Light Duty Vehicles for urban freight transport; E-freight solutions and supply chain management

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=344](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=344)

**Call title** FP7-TRANSPORT (TPT)-2011-RTD-1  
**Call identifier** FP7-TPT-2011-RTD-1  
**Date of Publication** 20 July 2010  
**Deadline** 2 December 2010 at 17:00 Brussels local time  
**Indicative Budget:** 6 M€

**Topics called:**

**Socio-economic research and technology foresight**

Enhancing connectivity between research solutions and policy-making for the sustainable development of Transport; **Transport needs for an ageing society**; Socio-economic challenges for breakthrough innovations in European freight transport

**Integration of transport modes and cross-cutting research**

Integration of passenger transport modes and travel information services through the analysis of social behaviour, mobility patterns and business models as basis for the decarbonization of the European transport system; **Enhanced cross-fertilization and synergies in research actions dealing with safety aspects**; Modelling of co-modality quickwins: Roadmap towards co-modality

**Strengthening the European Research Area, encouraging participation, and dissemination of research results**

**A productive international cooperation to strengthening the European Transport research area and facing global challenges**

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=341](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=341)

**Call Title** FP7-GALILEO-2011-GSA-1  
**Call identifier** FP7-GALILEO-2011-GSA-1-b  
**Date of Publication** 20 July 2010  
**Deadline** 5 October 2010 at 17:00 Brussels local time  
**Indicative Budget:** 10 M€

**Topics called:**

**Professional applications**

Use of EGNOS and early Galileo services for professional applications

**Scientific applications**

Use of Galileo and EGNOS for scientific applications and innovative applications in new domains

**Safety-of-life applications**

Use of EGNOS and Galileo for safety-of-life applications for all transport modes

**New and innovative applications and services**

Use of Galileo and EGNOS services for mass market and in niche sectors (to be mainly provided by SMEs)

**Receivers**

Technologies for PRS receivers

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=326](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=326)

**SOCIO-ECONOMIC SCIENCES AND HUMANITIES**

**Call Title** FP7-SSH-2011- Collaborative projects (large scale integrating research projects)

**Call identifier** FP7-SSH-2011-1

**Date of Publication** 20 July 2010

**Deadline** 2 February 2011 at 17:00 Brussels local time

**Indicative Budget:** 40 M€

**Topics called:** **Structural changes in the European knowledge economy and society**  
Europe moving towards a new path of economic growth and social development

**Socioeconomic development trajectories**

Economic, social and political conditions for satisfying the world food needs

**Interactions and interdependences between world regions and their implications**

Tackling poverty in a development context

**Conflicts, peace and human rights**

The evolving concept of borders

**Participation and citizenship in Europe**

Corruption and resistance to corruption in the private and public sphere

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=337](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=337)

**Call Title** FP7-SSH-2011- Collaborative projects (small or medium scale focused research projects)

**Call identifier** FP7-SSH-2011-2

**Date of Publication** 20 July 2010

**Deadline** 2 February 2011 at 17:00 Brussels local time

**Indicative Budget:** 29.7 M€

**Topics called:** **Changing role of knowledge throughout the economy**  
Lifelong learning in Europe: appropriate skills for sustaining better jobs

**Strengthening policy coherence and coordination in Europe**

New Innovation Processes including Social Innovation

**Socio-economic development trajectories**

Combating poverty in Europe: a key question of human dignity and social cohesion

**Regional, territorial and social cohesion**

Addressing cohesion challenges in Central and Eastern Europe

**Societal trends and lifestyles**

Criminal behaviour and policy responses in the European Union

**Participation and citizenship in Europe**

Surveillance and the challenges for democracy and an open society

**Diversities and commonalities in Europe**

The Anthropology of European Integration

**Diversities and commonalities in Europe**

Rule of Law and Justice in a Multilevel Governance System

**Use of indicators and related approaches for the evaluation of research policies and programmes**

Impact assessment of EU policies

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=336](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=336)

**Call Title** FP7-SSH-2011- Coordination and support actions

**Call identifier** FP7-SSH-2011-3

**Date of Publication** 20 July 2010

**Deadline** 2 February 2011 at 17:00 Brussels local time

**Indicative Budget:** 6.3 M€

**Topics called:** **Structural changes in the European knowledge economy and society**

Social Platform on innovative Social Services

**Developing better indicators for policy**

Beyond GDP – Measuring economic performance and societal progress

**Wide socio-economic foresight on key challenges**

Forward visions on the European Research Area

**Horizontal activities**

Networking of Dissemination Activities Involving International Transfer Knowledge Institutes; ICT-based networking and exploiting of SSH projects and results; Career paths and patterns of SSH graduates

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=340](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=340)

**SPACE**

**Call Title** Space Call 4

**Call identifier** FP7-SPACE-2011-1

**Date of Publication** 20 July 2010

**Deadline** 25 November 2010 at 17:00 Brussels local time

**Indicative Budget:** 99 M€

**Topics called:** **Preoperational validation of GMES services and products**

GMES Security: exploring operational governance options

**Continuity of GMES services in the areas of Marine and Atmosphere**

Prototype operational continuity of GMES services in the Marine Area; Prototype operational continuity of GMES services in the Atmosphere area; R&D to enhance future GMES applications in the Marine and Atmosphere areas

**Research to support space science and exploration**

Exploitation of science and exploration data; Research and development for space exploration

**Research to support space transportation and key technologies**

Space transportation technologies; Space critical technologies

**Reducing the vulnerability of space assets**

Prevention of impacts from Near Earth Objects (NEOs) on our Planet

**International Cooperation**

Facilitating access to space for small scale research missions

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=334](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=334)

**GENERAL ACTIVITIES**

**Call Title** ERA-NET Call 2011  
**Call identifier** FP7-ERANET-2011-RTD  
**Date of Publication** 20 July 2010  
**Deadline** 22 FEBRUARY 2011 at 17:00 Brussels local time  
**Indicative Budget:** 44 M€

**Topics called:** **Health: Research on the brain and related diseases, human development and ageing**  
ERA-Net on disease-related neurosciences

**Health: Translational research in other major diseases**  
ERA-NET on diabetes prevention and treatment

**FAB: Sustainable production and management of biological resources from land, forest and aquatic environment**

Deepened and enlarged European cooperation in the area of Molecular Plant Sciences - ERA-NET  
Animal health and welfare – ERA-NET

**FAB: Fork to farm: Food (including seafood), health and well being**  
Sustainable food production and consumption – ERANET

**FAB: Life sciences, biotechnology and biochemistry for sustainable non-food products and processes**

Deepened and enlarged European cooperation in the area of Industrial Biotechnology - ERA-NET  
Synthetic Biology ERA-NET

**NMP: Materials**

ERA-NET on research on materials science and engineering, including international cooperation

**NMP: Integration of technologies for industrial applications**

ERA-NET on the Industrial Handling of Raw Materials for European Industries

**NMP: Integration of technologies for industrial applications**

ERA-NET on Industrial Safety

**Energy**

Supporting the coordination of national research activities of Member States and Associated States in the field of GEOTHERMAL energy (ERA-NET)  
Supporting the coordination of national research activities of Member States and Associated States in the field of OCEAN energy (ERANET)

**Transport: Sustainable Surface Transport**

ERA-NET Plus 'Electromobility

**SSH: Societal Trends and Lifestyles**

Drug demand and supply reduction (ERA-NET)

**SSH: Cultural Interactions in an International Perspective**  
*Cultural Encounters* (ERANET Plus)

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=312](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=312)

**JOINT TECHNOLOGY INITIATIVES**

**Call Title** Fuel Cells and Hydrogen Joint Undertaking Call for Proposals 2010 Part 1  
**Call identifier** FCH-JU-2010-1  
**Date of Publication** 18 June 2010  
**Deadline** 13 November 2010 at 17:00 Brussels local time  
**Indicative Budget:** 89.1 M€ (NOTE: legal entities from India will be eligible for funding provided that the Governing Board considers their participation to be of particular benefit to the project)

**Topics called:**

**Transportation & Refuelling Infrastructure**

Large-scale demonstration of road vehicles and refuelling infrastructure III; Next generation European MEAs for transportation applications; Investigation of degradation phenomena; Bipolar Plates Collaborative Project; Auxiliary Power Units for Transportation Applications

**Hydrogen Production & Distribution**

Efficient alkaline electrolyzers; Development of fuel processing catalyst, modules and systems; Development of gas purification technologies; Low temperature H<sub>2</sub> production processes; Preparation of demonstration of efficient large-scale hydrogen liquefaction; Feasibility of 400b+ CGH<sub>2</sub> distribution

**Stationary Power Generation & CHP**

Materials development for cells, stacks and balance of plant (BoP); Next generation cell and stack designs; Component improvement for stationary power applications; Proof-of-concept and validation of integrated fuel cell systems; Field demonstration of stationary fuel cell systems; Pre-normative research on power grid integration and management of fuel cells for residential CHP, commercial and industrial applications

**Early Markets**

Demonstration of fuel cellpowered materials handling vehicles including infrastructure II; Demonstration of industrial application readiness of fuel cell generators for power supply to off-grid stations, including the hydrogen supply solution; Fuel supply concepts for portable and micro fuel cells; Components with advanced durability for Direct Methanol Fuel Cells; Research and development on new portable and micro Fuel Cell solutions; Prenormative research on the indoor use of hydrogen and fuel cells

**Cross-cutting Issues**

Development of a Framework for Technology Monitoring and Assessments (TMA); Study of Advanced Hydrogen Economy Financing Options

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call\\_id=309](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsCallPage&call_id=309)

## IDEAS

### ERC STARTING INDEPENDENT RESEARCHER GRANT

**Call Title** ERC Starting independent researcher Grant  
**Call identifier** ERC-2011-StG\_20101014  
**Date of Publication** 20 July 2010  
**Deadline** 14 October 2010 at 17:00 Brussels local time  
**Indicative Budget:** 661.4 M€ (40% Physical sciences and engineering; 35% Life sciences; 15% Socio-economic sciences and humanities; 10% cross domain topics)

**Topics called:** **European Research Council Starting Grant**  
Physical sciences and engineering

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.IdeasDetailsCallPage&call\\_id=345](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.IdeasDetailsCallPage&call_id=345)

**Call Title** ERC Starting independent researcher Grant  
**Call identifier** ERC-2011-StG\_20101109  
**Date of Publication** 20 July 2010  
9 November 2010 at 17:00 Brussels local time  
**Indicative Budget:** 661.4 M€ (40% Physical sciences and engineering; 35% Life sciences; 15% Socio-economic sciences and humanities; 10% cross domain topics)

**Topics called:** **European Research Council Starting Grant**  
Life sciences

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.IdeasDetailsCallPage&call\\_id=346](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.IdeasDetailsCallPage&call_id=346)

**Call Title** ERC Starting independent researcher Grant  
**Call identifier** ERC-2011-StG\_20101124  
**Date of Publication** 20 July 2010  
24 November 2010 at 17:00 Brussels local time  
**Indicative Budget:** 661.4 M€ (40% Physical sciences and engineering; 35% Life sciences; 15% Socio-economic sciences and humanities; 10% cross domain topics)

**Topics called:** **European Research Council Starting Grant**  
Socio-economic sciences and humanities

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.IdeasDetailsCallPage&call\\_id=347](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.IdeasDetailsCallPage&call_id=347)

## PEOPLE

### **MARIE CURIE INITIAL TRAINING NETWORKS**

**Call identifier** FP7-PEOPLE-2011-ITN  
**Date of Publication** 20 July 2010  
**Deadline** 26 January 2011 at 17:00 Brussels local time  
**Indicative Budget:** 318.4 M€

**Topics called:** **Marie Curie Initial training networks**  
Support for training and career development of researchers

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.PeopleDetailsCallPage&call\\_id=313](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.PeopleDetailsCallPage&call_id=313)

### **MARIE CURIE INDUSTRY-ACADEMIA PARTNERSHIPS AND PATHWAYS**

**Call identifier** FP7-PEOPLE-2011-IAPP  
**Date of Publication** 20 July 2010  
**Deadline** 7 December 2010 at 17:00 Brussels local time  
**Indicative Budget:** 80 M€

**Topics called:** **Marie Curie Industry-Academia Partnerships and Pathways**  
Support for training and career development of researchers

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.PeopleDetailsCallPage&call\\_id=314](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.PeopleDetailsCallPage&call_id=314)

### **MARIE CURIE INTERNATIONAL OUTGOING FELLOWSHIPS**

**Call identifier** FP7-PEOPLE-2010-IOF  
**Date of Publication** 17 March 2010  
**Deadline** 17 August 2010 at 17:00 Brussels local time  
**Indicative Budget:** 28 M€

**Topics called:** **Marie Curie International Outgoing Fellowships for Career Development**  
Support for training and career development of researchers

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7DetailsCallPage&call\\_id=243](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7DetailsCallPage&call_id=243)

### **MARIE CURIE INTERNATIONAL INCOMING FELLOWSHIPS**

**Call identifier** FP7-PEOPLE-2010-IIF  
**Date of Publication** 17 March 2010  
**Deadline** 17 August 2010 at 17:00 Brussels local time  
**Indicative Budget:** 28 M€

**Topics called:** **Marie Curie International Incoming Fellowships for Career Development**  
Support for training and career development of researchers

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7DetailsCallPage&call\\_id=242](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7DetailsCallPage&call_id=242)

## CAPACITIES

### RESEARCH INFRASTRUCTURES

**Call title** FP7-INFRASTRUCTURES-2011-1  
**Call identifier** FP7-INFRASTRUCTURES-2011-1  
**Date of Publication** 20 July 2010  
**Deadline** 25 November 2010 at 17:00 Brussels local time  
**Indicative Budget:** 163.45 M€

**Topics called:** **Support to existing research infrastructures – integrating activities**

*Social Sciences and Humanities*

Language Resources and Tools for cross-disciplinary research in social sciences and humanities; European Data Infrastructure for multidisciplinary research in the socio-economic behaviour of individuals and households, related to sustainability policy, climate change policy and environmental risk; Integrating Digital Archives and Resources for Research on Medieval and Modern European History; Integrating Archives for research on Contemporary European Social History

*Life Sciences*

Facilities and resources for multinational clinical trials; Facilities and resources for protein structure determination at synchrotron radiation sources; Life sciences bio-molecular data resources and services; Facilities and resources for plant phenotyping; Facilities and services for livestock physiology and phenomics

*Environmental Sciences and Earth Sciences*

Research Infrastructures for Carbon Cycle Observations; Integrated non-CO2 greenhouse gas Observing Systems; Integrated observatories and centres for marine and freshwater biodiversity and for long-term ecosystems research; Research infrastructures for forestry research; Multidisciplinary Marine Data Centres

*Energy*

Research Infrastructures for thermo-chemical biomass conversion; Research Infrastructures for Hydrogen & Fuel Cells facilities

*Materials and Analytical Facilities*

Infrastructures for Neutron Scattering and Muon Spectroscopy; Synchrotron radiation sources and Free Electron Lasers; Laser sources

*Physics and Astronomy*

Research Infrastructures for hadron physics: Studying the properties of nuclear matter at extreme conditions; Research Infrastructures for advanced radio astronomy; Research Infrastructures for optical/IR astronomy; Research Infrastructures for astroparticle physics: High energy cosmic rays, multimessenger approach.

**Support to new research infrastructures – design studies**

Design studies for research infrastructures in all S&T fields

**Support to new research infrastructures – Construction of new infrastructures (or major upgrades) -implementation phase**

Implementation of common solutions for a cluster of ESFRI infrastructures in the field of "Social Sciences and Humanities"; Implementation of common solutions for a cluster of ESFRI infrastructures in the field of "Life sciences"; Implementation of common solutions for a cluster of ESFRI infrastructures in the field of "Environmental Sciences"; Implementation of common solutions for a cluster of ESFRI infrastructures in the field of "Physics, Astronomy and Analytical Facilities".

**Support to policy development and programme implementation**

ERA-NET supporting cooperation for research infrastructures in all S&T fields;  
**Coordination actions, conferences and studies supporting policy development,**

including international cooperation, for research infrastructures in all fields of S&T; Study for the development of a possible future EU action on scientific instrumentation.

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CapacitiesDetailsCallPage&call\\_id=364](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CapacitiesDetailsCallPage&call_id=364)

**Call Title** FP7-INFRASTRUCTURES-2011-2  
**Call identifier** FP7-INFRASTRUCTURES-2011-2  
**Date of Publication** 20 July 2010  
**Deadline** 23 November 2010 at 17:00 Brussels local time  
**Indicative Budget:** 95 M€

**Topics called:** **Support to existing research infrastructures**  
*ICT-based e-infrastructures*  
e-Science environments; Data infrastructures for e-Science

**Support to new research infrastructures – Construction of new infrastructures (or major upgrades) -implementation phase**  
Second implementation phase of the European High Performance Computing (HPC) service PRACE

**Support to policy development and programme implementation**  
Coordination actions, conferences and studies supporting policy development, including international cooperation, for e-Infrastructures

**For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CapacitiesDetailsCallPage&call\\_id=357](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CapacitiesDetailsCallPage&call_id=357)

**SCIENCE IN SOCIETY**

**Call title** FP7-SCIENCE-IN-SOCIETY-2011-1  
**Call identifier** FP7-SCIENCE-IN-SOCIETY-2011-1  
**Date of Publication** 20 July 2010  
**Deadline** 20 January 2011 at 17:00 Brussels local time  
**Indicative Budget:** 43 M€

**Topics called:** **A more dynamic governance of the science and society relationship**  
Mobilisation and Mutual Learning (MML) - Action Plans on societal challenges

**Better understanding of the place of science and technology (S & T) in society**  
*Relationships between science, democracy and law* - Involvement of civil society organisations in research; Regulating emerging scientific and technological developments; Integrated assessment methods for measuring societal impacts of emerging scientific and technological developments; A Forward Look at new ways of doing and organising research in our knowledge societies

**Strengthening and improving the European Science system**  
*Encouraging the debate on information dissemination, including access to scientific results and the future of scientific publications, taking also into account measures to improve access by the public* – Reinforcing European strategies on access, dissemination and preservation of scientific information in the digital age  
*The reciprocal influence of science and culture* - Clusters of cities of scientific culture for innovation

**Gender and Research**

*Strengthening the role of women in scientific research and scientific decision-making bodies – Implementing structural change in research organisations/universities*

#### **Young people and science**

*Supporting formal and informal science education in schools as well as through science centres and museums and other relevant means - Supporting and coordinating actions on innovative methods in science education: teacher training on inquiry based teaching methods on a large scale in Europe*

*Research and coordination actions on new methods in science education - Science and mathematics-related activities carried out in pre-school and in the first years of primary school: their link to the development of creative skills*

*Research aimed at enhancing intercommunication concerning science, both in its methods and its products, to raise mutual understanding between the scientific world, and the wider audience of policy-makers, the media and the general public - Science-Society interaction in the digital technologies era*

#### **For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7DetailsCallPage&call\\_id=360](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7DetailsCallPage&call_id=360)

### **ACTIVITIES OF INTERNATIONAL COOPERATION**

**Call title**                    **Strengthening joint European S&T centres in third countries – INCO-HOUSE**  
**Call identifier**              FP7-INCO-2011-8  
**Date of Publication**        20 July 2010  
**Deadline**                    15 March 2011 at 17:00 Brussels local time  
**Indicative Budget:**        0.5 M€

**Topics called:**             **Strengthening joint European S&T centres in Third Countries**  
**India**

#### **For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7DetailsCallPage&call\\_id=352](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7DetailsCallPage&call_id=352)

**Call Title**                    **Strengthening European research facilities in third countries – INCO-LAB**  
**Call identifier**              FP7-INCO-2011-7  
**Date of Publication**        20 July 2010  
**Deadline**                    15 March 2011 at 17:00 Brussels local time  
**Indicative Budget:**        2 M€

**Topics called:**             **Strengthening European research facilities in third countries**  
**India**

#### **For more information:**

[http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CapacitiesDetailsCallPage&call\\_id=353](http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CapacitiesDetailsCallPage&call_id=353)

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<http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7CallsPage&rs>