



Work Programme 2012 COOPERATION

Theme 6

Environment (including Climate Change)



Objectives



- Promote sustainable management of the natural and human environment and its resources
- Advancing our knowledge on the interactions between the biosphere, ecosystems and human activities
- Developing new technologies tools and services to address in an integrated way global environmental issues
- Emphasis put on :
 - Prediction of climate, ecological, earth/ocean system changes.
 - Tools and technologies for monitoring, prevention/mitigation of environmental pressures and risks (incl. Health & the sustainability of the natural and man-made environment).





Context



- Emphasis put on :
 - Innovation aspects :
 - generating knowledge to deliver more innovative products, processes and services
 - identifying and addressing exploitation issues (capabilities for informations and dissemination, enhancing the use of the general knowledge (IPR, patenting, standards...))





Novelties



- Challenge driven approach
- Boost industry and SMEs participation (introducing specific SME targeted topics)
- Funding limits will be strictly applied as eligibility criteria
- Usage of on going and current earth observation datas (ESA Earth sciences datas, GMES...)





Novelties (2)



- **Open access in FP7:**
requirement to deposit peer-reviewed articles resulting from projects, and open access to such articles within six months of publication.
- **Specific dissemination topics to strengthen science-policy interface in the area of geo-engineering, air quality and marine research.**
- **A feasibility study to explore opportunities for open access to data to enhance transparency, credibility and efficiency of research and promote the use of data for policy and/or business purposes.**





Novelties (3)



- Most topic areas are evaluated through a two-stage process:
 - Outline proposals of max 10 pages by 20 October 2011
 - Selected outlines to prepare full proposals by 15/2/2012 (indicative date to be specified in the invitation letter)
 - In most cases, more than one proposals can be selected; the call text is less prescriptive, leaving more choice to the applicants on what to focus the proposal
- Less topic areas are evaluated through a one-stage process:
 - Applied for Coordination and support actions and for some small size collaborative projects
 - Full proposals to be prepared by 20 October 2011





Challenge 6.1 Coping with climate change

Overall aim

- **To create a more effective interface between climate change knowledge, social and economic systems and the policy-making process**

In particular, the call will explore:

- ***The key knowledge gaps in climate science that may allow reliable seasonal-to-decadal predictions, paving the way to the future development of climate services***
- ***The economic opportunities the costs and the impacts associated to the development of a low carbon, resource efficient and climate resilient society and economy, by:***
 - *Improving the energy-economy-climate modelling tools for assessing costs and impacts of mitigation pathways*
 - *Improving our capability of assessing the full costs and benefits of adaptation strategies*
 - *Exploring the best mix of economic and non-economic instruments that may complement the EU Emission Trading System in order to reach the 2050 GHG reduction targets*
- ***The opportunities, risks, feasibility and policy implications of geo-engineering***

Indicative budget: 55 M€





Challenge 6.2 Sustainable use and management of land and sea

Overall aim

- **Natural resources and ecosystem services constitute the natural capital that supports our economies, societies and individual well-being.**

Objectives

- ***Provide knowledge-based options for addressing the major societal challenge towards sustainable use and management of land and sea***
 - E.g. contributions to maintaining and restoring the ecosystem capacity to deliver products and services required by society.
- ***Develop and strengthen European leadership in innovation including key environmental technologies pursuing a broad concept of innovation.***
 - E.g. Innovative approaches to value biodiversity and ecosystem services and to develop public goods and sustainable economic activities from them.
- ***Promote and facilitate knowledge transfer, assessment, uptake and exploitation of scientific data and results.***
 - E.g. development of conceptual frameworks, methods and protocols to provide consistent datasets and knowledge across time, scales and sectors.

Indicative budget: 45 M€





Challenge 6.3 Improving Resource Efficiency

- **Rationale**
- Resource efficiency is recognized as a way to reduce societal and ecological footprint, preserve our environment... and an opportunity to stimulate new economic activities, create new jobs and growth in Europe
- -> **Decoupling -> New European (Green) Economy.**
- **Objective**
- **Fasten the transition** towards a Green Economy by **improving resource efficiency** within and across all sectors and **build up more sustainable patterns for consumption and production**
- **Focus**
 - innovative ideas and new market opportunities for eco-efficient technologies, processes and services – resource efficiency and new opportunities for SMEs
 - adequate decision support tools (indicators and models) to enable policy makers and other stakeholders to choose the best mix of policy options, as well as to analyse and monitor the progress towards resource-efficiency
 - standardisation requirements in the field of environment

Indicative Budget : 62 M€ (6.3-1 : 50M€, 6.3-2/6.3-3/6.3-4 : 12 M€)





Challenge 6.4 Protecting citizens from environmental hazards

Overall aim

- To develop innovative knowledge and applicable tools aiming at risk reduction from environmental hazards, including extreme and sudden large catastrophic events, as well as noxious elements present in the environment that may affect human health

In particular, the call will explore:

- ***How to improve the resilience of societies to major catastrophic events through new risk-management partnerships***
- ***The establishment of long-term monitoring experiments in geologically active zones, as European contribution to the international “Supersite” initiative***
- ***How to integrate large amounts of environmental exposure and human health data – the concept of “exposome”***

Indicative budget: 42 M€





Challenge 6.5 Mobilising environmental knowledge for policy, industry and society

Overall aim

- The integration of **innovative environment solutions** into economic sectors and society calls for innovative approaches and tools to handle the complexity and to facilitate knowledge transfer, assessment, valuation, uptake and exploitation of scientific results for policy, industry and society at large.

Objectives

- To develop an integrated network of **community-based in-situ observations** to deliver environmental data through novel earth observation applications such as a global citizen's observatory.
- To engage SMEs in environmental innovation through demonstration activities with focus on **successful prototypes**.
- To promote further **open access** to environmental research results and data at EU, national and local levels.
- To facilitate the use of **integrated assessment** tools in support of the revision of EU environmental policies (Air Quality).

Indicative budget: EUR 41 M€





НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ
УНИВЕРСИТЕТ



BILAT-RUS



Implementation of calls (20 July 2011)

| Call | Identifier | Deadline | Total budget | ENV contribution |
|--|--|--|------------------------|------------------------|
| Main ENV call – one stage | FP7-ENV-2012- one-stage | 20 October 2011 | EUR 38 million | EUR 38 million |
| Main ENV call – two stage | FP7-ENV-2012- two-stage | 1st stage: 20 October 2011 2nd stage: 15 February 2012 (indicative) | EUR 217 million | EUR 217 million |
| Energy-Efficient Buildings (Public-Private-Partnership PPP) Joint Call | FP7-2012-NMP-ENV-ENERGY-ICT-EeB | 1 December 2011 | EUR 140 million | EUR 5 million |
| Green Cars (Public-Private-Partnership PPP) Joint Call | FP7-2012-GC-MATERIALS | 1 December 2011 | EUR 25 million | EUR 5 million |





Funding thresholds

- **The budget request should be realistic and in line with the needs of the consortium: within the maximum EU contribution, but not necessarily reaching the limit.**

| Funding scheme | Maximum requested EU contribution |
|--|---|
| Collaborative Project (one-stage and two-stage) | Three types of CPs: - max. 9 000 000 M€ - max. 6 000 000 M€ - max. 3 000 000 M€ Check the call fiche for the relevant funding threshold for your topic! |
| Coordination and Support Action (coordinating action) | max. 1 000 000 M€ |
| Coordination and Support Action (supporting action) | max. 1 000 000 M€ |





Eligibility conditions

- The general eligibility criteria are set out in Annex 2 of this work programme, and in the Guide for Applicants. Please note that the completeness criterion also includes that part B of the proposal shall be readable, accessible and printable.
- The minimum number of participating legal entities for all funding schemes used in the call is set out in the table below and in the Rules for Participation.

| Funding scheme | Minimum conditions |
|--|---|
| Collaborative Project/ SME-targeted Collaborative Project | At least 3 independent legal entities, each of which is established in a MS or AC, and no 2 of which are established in the same MS or AC |
| Coordination and Support Actions (coordinating action) | At least 3 independent legal entities, each of which is established in a MS or AC, and no 2 of which are established in the same MS or AC |
| Coordination and Support Actions (supporting action) | At least 1 independent legal entity. |





Further information

- General information on environmental research

http://ec.europa.eu/research/environment/index_en.htm

- CORDIS

http://cordis.europa.eu/fp7/environment/home_en.html

- Participants portal

<http://ec.europa.eu/research/participants/portal/page/home>

- NCP Environment (Fr.)

<http://www.pcn-environnement.fr/>





THANK YOU FOR YOUR ATTENTION

NCP FP7 Environment

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