

*Financing opportunities to  
support R&D&I:  
boosting SME participation  
in FP7 Environment theme*

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*FP7 Environment theme NCP*





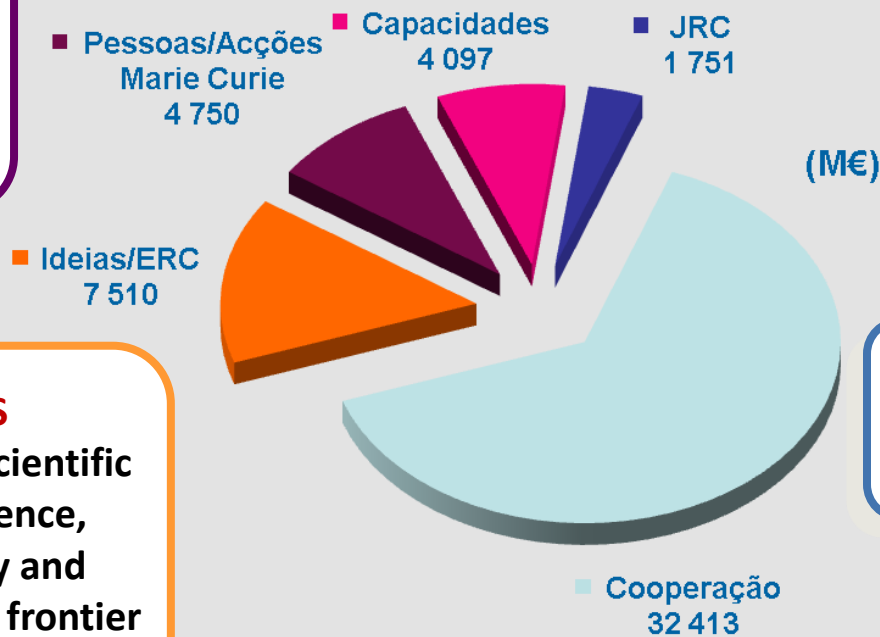
## CAPACITIES

Supporting research capacities at EU level

**PEOPLE**  
Promoting the research careers and international mobility

**IDEAS**  
Promoting scientific independence, creativity and excellence in frontier research

**COOPERATION**  
Research in collaboration- 10 thematic areas



TOTAL budget: **50 521 M€** + 2700 M€ (EURATOM)

<http://cordis.europa.eu/en/home.html>

Main financing instrument supporting R&D at EU

*Funding opportunities for SMEs under FP7*  
*SMEs role within FP7*



Fundamental  
research

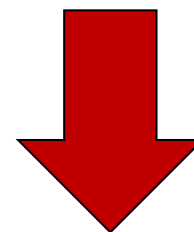
Applied  
research

-technological development  
-prototypes  
-demonstration

**Market**

**SME**

7<sup>th</sup> Framework Program





**SME with  
R&D  
capacity**

**Cooperation programme:** supports collaborative research within 10 thematic areas

Action **"Industry-Academia Partnership and Pathways"** from People Programme: promotes the development of human resources

**SME with  
reduced or  
null R&D  
capacity**

**"Research for the benefit of SME"** from Capacities Programme: promotes and inforces capacities

# FP7 financing opportunities for SME

## COOPERATION programme



R&I activities in collaboration between universities, research institutes private companies and other legal entities

10 thematic areas → each theme launches an annual working programme with priority research topics (top-down approach)

The projects have, in average, 2 to 5 years duration → development of new knowledge, technologies and products → supporting research activities, demonstration, management and others (training, dissemination, IPR,...)

Eligibility criteria (check it in the Work Program and in the Guide for Applicants)

- Date and time of receipt
- Min. of eligible, independent partners
- Completeness of proposal
- Budget threshold
- Percentage of funding going to SMEs or industry
- Project duration
- Number of partners

Type of projects:

- CP – Collaborative projects (small/medium and large)
- **SME-targeted Collaborative Project (with minimum levels of SME participation concerning the overall budget)**
- CSA – Coordination and supporting actions

# FP7 COOPERATION programme

## SME participation



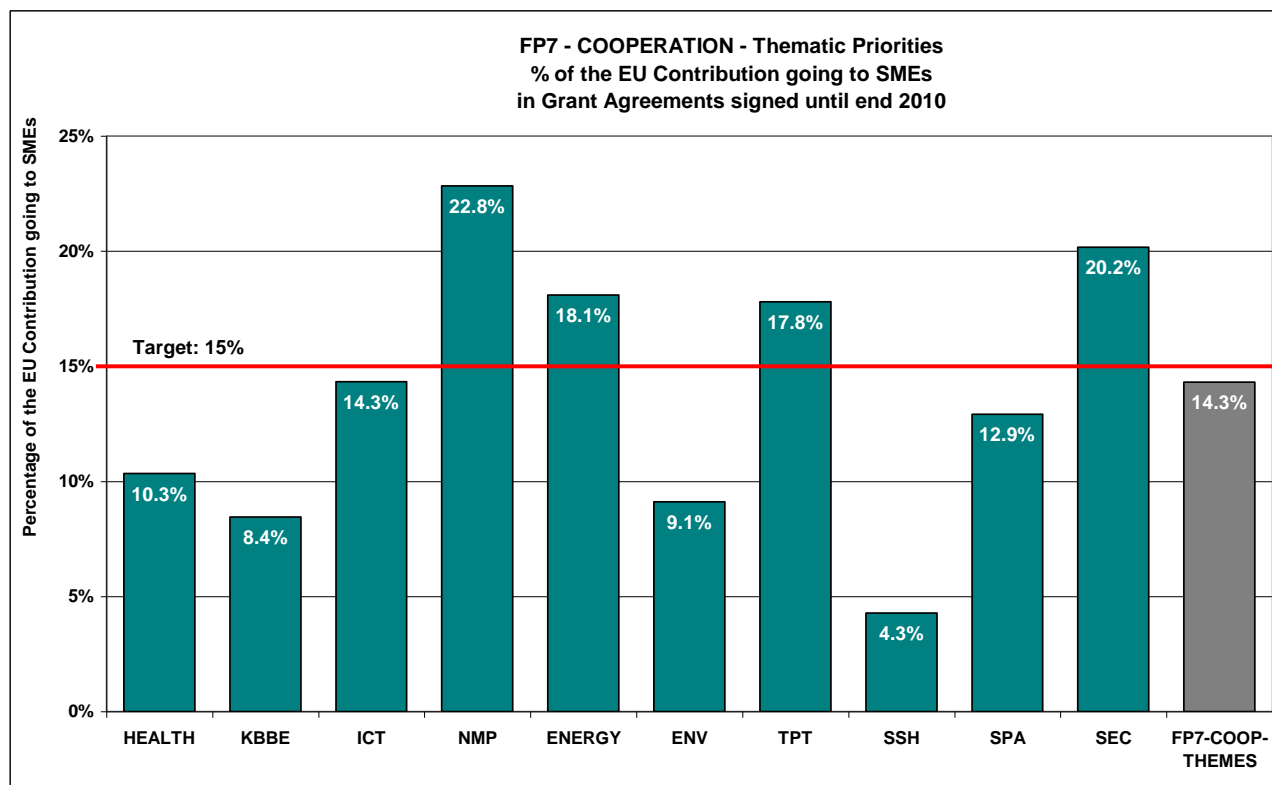
EUROPEAN COMMISSION / European Research Area / 7th Framework Programme

SME Participation in FP7

Report Spring 2011

STUDIES AND REPORTS

Target → 15% for each theme





**1840 M€ (2007-2013)**

## objective

To promote **sustainable management of the environment and its resources** through advancing our knowledge on the interactions between climate, biosphere, ecosystems and human activities, and developing new technologies, tools and services, in order to address in an integrated way global environmental issues ...

## 5 main challenges

- Coping with climate change
- Sustainable use and management of land and seas
- Improving resource efficiency
- Protecting citizens from environmental hazards
- Mobilizing environmental knowledge for policy, industry and society



## Research topics Call 2012 – SME targeted

Challenge 6.1: Coping with climate change						
1	Seasonal-to-decadal climate predictions towards climate services	CP	vários projectos	9M€	PME	Tópicos para Call em 2 estágios submissão/avaliação
2	Development of advanced techno-economic modelling tools for assessing costs and impacts of mitigation policies	CP	vários projectos	6M€		
3	Strategies, costs and impacts of adaptation to climate change	CP	vários projectos	6M€		
4	Exploiting the full potential of economic instruments to contribute to achieving the EU's greenhouse gas emissions reduction objectives for 2050	CP	vários projectos	3M€		Tópicos para Call em 1 fase de submissão /avaliação
5	Explore opportunities, risks, feasibility and policy implications associated with key geo-engineering options	CSA-SA	apenas um	1M€		
Challenge 6.2 Sustainable use and management of land and seas						
1	Exploration of the operational potential of the concepts of ecosystem services and natural capital to systematically inform sustainable land, water and urban management	CP	vários projectos	9M€	PME (>15%)	Tópico para Call em 2 estágios submissão/avaliação
2	Assessing global biological resources: the European contribution to the Global Earth Observation Biodiversity Observation Network (GEO BON)	CP	apenas um	9M€	PME (>15%)	
3	Innovative tools for understanding and integrated assessment of Good Environmental Status of marine waters ("The Ocean of Tomorrow"2012 coordinated call )	CP	apenas um	9M€	PME (>15%)	
4	Management and potential impacts of litter in the marine and coastal environment ("The Ocean of Tomorrow"2012 coordinated call )	CP	apenas um	3M€	PME (>15%)	
5	Improve scientific knowledge base to support the implementation of the Marine Strategy Framework Directive ("The Ocean of Tomorrow"2012 coordinated call )	CSA-SA	apenas um	1M€		Tópicos para Call em 1 fase de submissão /avaliação
6	Development of advanced technologies and tools for mapping, diagnosing, excavating, and securing underwater and coastal archaeological sites	CP	vários projectos	3M€	PME (>30%)	
Challenge 6.3 Improving resource efficiency						
1	Innovative resource efficient technologies, processes and services	CP	vários projectos		PME (>30%) bottom-up-topic	Tópico para Call em 2 estágios submissão/avaliação
2	Policy options for a resource efficient economy	CP	vários projectos	3M€		
3	Development of resource efficiency indicators	CP	vários projectos	3M€		Tópicos para Call em 1 fase de submissão /avaliação
4	Support for standardisation needs in the field of environment	CSA-SA	apenas um	1M€		
Challenge 6.4 Protecting citizens from environmental hazards						
1	Improving the resilience of society to catastrophic natural hazards through new risk-management partnerships	CP	vários projectos	6M€		Tópicos para Call em 2 estágios submissão/avaliação
2	Long-term monitoring experiment in geologically active regions of Europe prone to natural hazards: the Supersite concept	CP	vários projectos	6M€	PME (>15%)	
3	Integrating environmental and health data to advance knowledge of the role of environment in human health and well-being in support of a European exposome initiative	CP	vários projectos	9M€	PME	
Challenge 6.5 Mobilising environmental knowledge for policy, industry and society						
1	Developing community-based environmental monitoring and information systems using innovative and novel earth observation applications	CP	vários projectos	9M€	PME (>30%)	Tópicos para Call em 2 estágios submissão/avaliação
2	Demonstration and exploitation of most promising prototypes and tools derived from European research activities	CP	vários projectos	3M€	PME (>30%)	
3	Exploring opportunities for open access to primary environmental data	CSA-SA	apenas um	1M€		Tópico para Call em 1 fase de submissão /avaliação
4	Integrated assessment of air pollution supporting the revision of EU air quality legislation	CSA-SA	apenas um	1M€		
6.6. Horizontal and cross-thematic activities						

# Funded projects within ENV theme 2007-2011



[http://ec.europa.eu/research/environment/pdf/fp7\\_catalogue.pdf](http://ec.europa.eu/research/environment/pdf/fp7_catalogue.pdf)



[http://www.gppq.mctes.pt/brochuras/online/Projectos\\_7PQ\\_AMBIENTE\\_1.pdf](http://www.gppq.mctes.pt/brochuras/online/Projectos_7PQ_AMBIENTE_1.pdf)

→ Projectos com participação PT

# Funded projects with PT participation

## ENV technologies



Acronym	title	Web	Project type	PT partner
<b>Environmental technologies including cultural heritage</b>				
<b>MONOCAT</b>	Monolithic reactors structured at the nano and micro levels for catalytic water purification		CP-FP	<ul style="list-style-type: none"> <li>FEUP - Faculdade de Engenharia da Universidade do Porto</li> </ul>
<b>CLEANWATER</b>	Water Detoxification Using Innovative vi - Nanocatalysts		CP-FP	<ul style="list-style-type: none"> <li>FEUP - Faculdade de Engenharia da Universidade do Porto</li> </ul>
<b>PREPARED</b>	PREPARED "ENABLING CHANGE"	<a href="http://www.prepared-fp7.eu">www.prepared-fp7.eu</a>	CP-IP	<ul style="list-style-type: none"> <li>LNEC – Laboratório Nacional de Engenharia Civil</li> <li>EPAL - Empresa Portuguesa das Águas Livres, S.A.</li> </ul>
<b>ZeroWIN</b>	Towards Zero Waste in Industrial Networks	<a href="http://www.zerowin.eu">www.zerowin.eu</a>	CP-IP	<ul style="list-style-type: none"> <li>CEIFA - Centro de Estudos, Informação e Formação para o Ambiente</li> </ul>
<b>BURBA</b>	Bottom Up selection, collection and management of URBA n waste	<a href="http://www.burbaproject.net">www.burbaproject.net</a>	CP-FP	<ul style="list-style-type: none"> <li>TEKEVER – Tecnologias de informação, S.A.</li> </ul>
<b>NIKER</b>	New integrated knowledge based approaches to the protection of cultural heritage from earthquake induced	<a href="http://www.niker.eu">www.niker.eu</a>	CP-FP	<ul style="list-style-type: none"> <li>UM – Universidade do Minho</li> <li>Monumenta</li> </ul>
<b>PROSUITE</b>	Development and application of standardized methodology for the PROspective SUsustainability assessment of TEchnologies	<a href="http://www.prosuite.org/web/guest/home">www.prosuite.org/web/guest/home</a>	CP-IP	<ul style="list-style-type: none"> <li>FFCT-UNL - Fundação da Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa</li> </ul>
<b>TRUST</b>	Transitions to the Urban Water Services of Tomorrow	<a href="http://www.trust-i.net">www.trust-i.net</a>	CP-IP	<ul style="list-style-type: none"> <li>IST – Instituto Superior Técnico</li> <li>LNEC – Laboratório Nacional de Engenharia Civil</li> <li>YDREAMS, S.A.</li> <li>ADDITION – Serviços e Projectos de Informática Lda</li> <li>AdP - Águas de Portugal, S.A.</li> </ul>
<b>SYDDARTA</b>	SYstem for Digitization and Diagnosis in ART Applications		CP-FP	<ul style="list-style-type: none"> <li>SIGNINUM - Gestão de Património Cultural</li> </ul>
<b>ECOWATER*</b>	Meso-level eco-efficiency indicators to assess technologies and their uptake in water use sectors		CP	<ul style="list-style-type: none"> <li>FEUP - Faculdade de Engenharia da Universidade do Porto</li> </ul>
<b>COROADO*</b>	Assessment, Decision Tools and Implementable Strategies under an Uncertain Future		CP	<ul style="list-style-type: none"> <li>FEUP - Faculdade de Engenharia da Universidade do Porto</li> </ul>

# EUROPE 2020 and its Flagship Initiatives

## policy drivers for Environment Work Program 2013



- Objectives of **smart, sustainable and inclusive growth**
- Headline targets, including **3% of GDP** invested in R&D by 2020

### **Innovation Union Flagship Initiative**

- A strategic and integrated approach to research and innovation
- Ensures that innovative ideas are turned into products and services
- Focus on major challenges and aiming at competitiveness and jobs

### **Resource Efficient Europe Flagship Initiative**

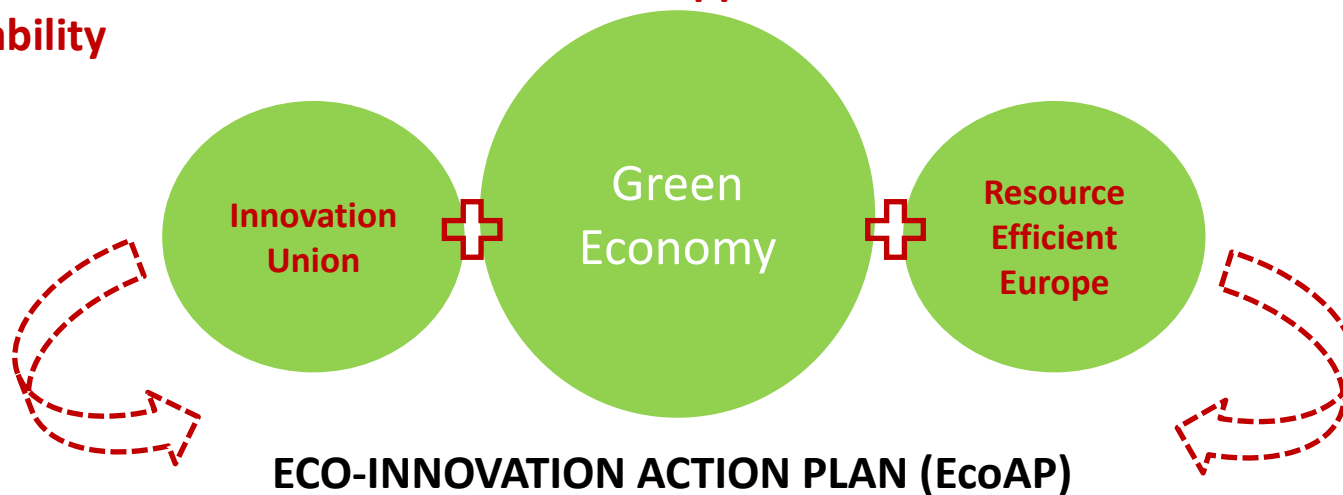
- boost economic performance while reducing resource use
- identify and create new opportunities for economic growth and greater innovation and boost the EU's competitiveness
- ensure security of supply of essential resources
- fight against climate change and limit the environmental impacts of resource use

# EUROPE 2020 and its Flagship Initiatives

## policy drivers for Environment Work Program 2013



**Eco-innovation as a fundamental tool to support economic, environmental and social sustainability**



- During 2012-2013 EcoAP will support the introduction and scaling-up of env technologies in the market, in particular by **supporting demonstration projects**
- The Commission has proposed a **strong innovation component within the provisions of the 2014-2020 Cohesion Policy**, which will give greater prioritisation to innovation due to the explicit conditions for Member States in this direction

[http://ec.europa.eu/environment/etap/index\\_en.htm](http://ec.europa.eu/environment/etap/index_en.htm)



Overarching theme

**Transformative and Responsible Innovation**

Time frame

**Launch: mid July 2012 | deadline: autumn 2012 (1<sup>st</sup> stage)  
beginning 2013 (2<sup>nd</sup> stage)**

## **Three objectives:**

- Major societal challenges
- European leadership in innovation
- Knowledge transfer, assessment, uptake and exploitation

## **Five priorities:**

- Coping with climate change
- Sustainable use and management of land and seas
- Improving resource efficiency
- Protecting citizens from environmental hazards
- Mobilising environmental knowledge for policy, industry and society



## Strengthening the innovation dimension

- **Broader bottom-up topics** (two-stage submission and evaluation procedures)
- **Specific SME and industry** support actions
  - SME targeted topics
  - Demonstrators, prototypes, standardisation, validation
  - Open access, design, business models
- **Knowledge uptake and transfer**



## 6.2 Sustainable use and management of land and seas

... Innovative applications for Earth Observation in land use monitoring  
...innovative techniques for restoring soil functions and mitigation land degradation....sustainable exploitation and management of Europe's deep sea resources and marine technology, notably sensors ....

### cross-thematic approaches

#### Joint Call on oceans

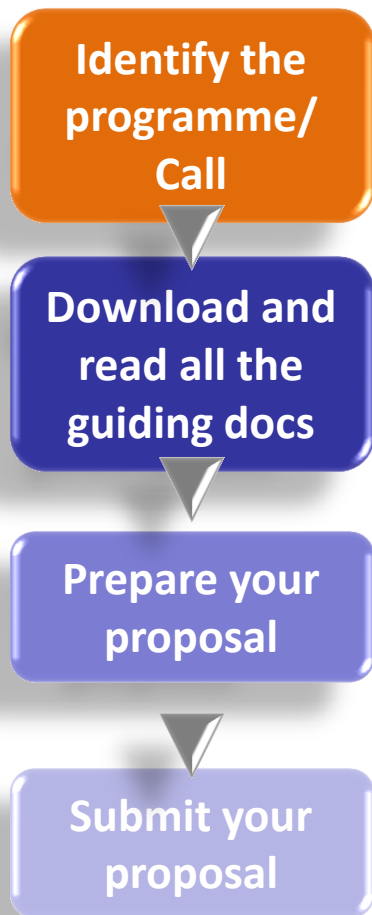
- Innovative sensor development for the future in-situ component of the Ocean Observing Systems
- Biosensors for real time monitoring of biohazard and man made chemical contaminants in the marine environment

## 6.3 Improving resource efficiency

Global assessment of water resources will be performed based on the integration of in-situ and space observation data... highly eco-innovative technologies, processes and services favouring a bottom-up approach. Ecoinnovation demonstration projects areas will aim to foster the exploitation of new solutions, management and business models.... technologies and tools for consolidation of eco-industries in the area of cultural heritage ... cutting-edge technologies, process and services for the optimum use of raw materials

# Proposal preparation under FP7 ENV theme

## Key steps



Potential participant has two main ways to get involved into a proposal preparation/submission:

- develop its own research idea as the **Coordinator** and form the consortium based on its needs
- **get involved in an already formed consortium** coordinated by another institution

**Networking!**

**become visible and interesting to international partners**



### **Scientific and technical quality (min 4 points)**

- S&T excellence, quality of objectives, concept

### **Implementation (min 3 points)**

- Quality of the consortium, competence and complementarity of partners
- Quality of the management, reflecting coordination

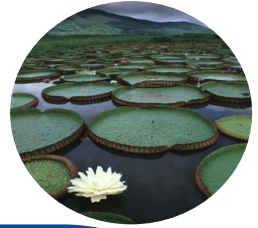
### **Impact (min 3 points)**

- Innovation dimension of the proposal (identify and address exploitation issues)
- As set out in work programme
- Dissemination activities and IPR management (eg. patenting, preparing standards)

**TOTAL min = 11 points**

# What makes a strong proposal

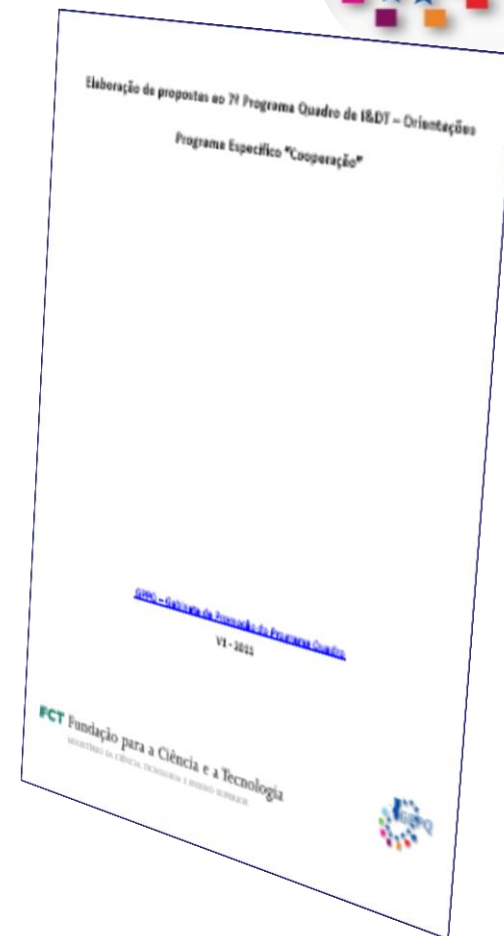
## what to do and not to do



- ✓ Ensure your **proposed work meets the topic** addressed by the call
- ✓ **Follow exactly** the structure given in the guide for applicants
- ✓ Be as **concise and precise** as possible
- ✓ The consortium of **partners must be excellent** and appropriate for the tasks
- ✓ Do **not overcrowd objectives** and show how you achieve them
- ✓ **Propose solutions** to overcome potential risks and conflicts
- ✓ Address all **3 evaluation criteria**
- ✓ **Help evaluators** to find the answers to the evaluation criteria



- ✓ Dissemination and awareness
- ✓ Partners identification and search
- ✓ Identification of financing opportunities in the Work Programme description
- ✓ Support in the administrative procedures
- ✓ Non-technical re-screening of the project proposals
- ✓ Support in the administrative procedures in negotiation and execution phases
- ✓ Individual support and training



**ELABORAÇÃO DE PROPOSTAS AO 7º PROGRAMA QUADRO DE I&DT – ORIENTAÇÕES:**

[http://www.gppq.mctes.pt/brochuras/online/elab\\_prop\\_7pq-orient\\_v1\\_2011.pdf](http://www.gppq.mctes.pt/brochuras/online/elab_prop_7pq-orient_v1_2011.pdf)



## NCPs for ENVIRONMENT (including climate change) Cooperation Programme

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