



Work Programme 2013

COOPERATION Theme 6 Environment (including climate change)

European Commission
Research & Innovation
FP7 - Cooperation – Environment

22/06/2012

COOPERATION Theme 6

Environment (including climate change)

Objective

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

Emphasis on:

- prediction of climate, ecological, earth and ocean systems changes,
- tools and on technologies for:
 - monitoring, prevention, mitigation of and adaptation to environmental pressures and risks including on health;
 - the sustainability of the natural and man-made environment.

WP2013

Main approach

Key drivers:

- Europe 2020 Strategy and its Flagship Initiatives on Innovation Union and Resource Efficiency
- bridging to Horizon 2020

Overarching theme:

"Transformative and Responsible Innovation"

WP 2013 addresses 5 societal challenges:

- 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

WP2013

Main approach

Bridging to Horizon 2020

Innovation:

- innovation measures in support of activities closer to market: support to market-uptake, generating knowledge to deliver new and more innovative products, processes and services. (prototyping, testing, demonstrating, knowledge transfer, proof of concept...);
- support to broader aspects of innovation: fostering service, process, organisational or social innovation;
- innovation dimension of the proposals evaluated under 'Impact' evaluation criterion.

SMEs:

- SME targeted topics and bottom-up approaches
- follow up research projects with demonstration or prototype production
- 14 topics with mandatory SME participation levels and ring-fenced SME budgets.

Contribution to cross-thematic issues:

- Oceans of the future
- Water
- Raw materials
- Smart cities
- Secure, clean and efficient energy
- Bio-resource efficiency

International cooperation:

- All topics open for participants from International Cooperation Partner Countries (ICPC)
- Regional networking for clustering of projects, uptake of research results and knowledge platforms for cooperation with third countries in:
 - Latin America
 - ASEAN
 - the Mediterranean and the Black Sea
 - the North Atlantic

International components:

- climate change (Arctic, oceans atmosphere)
- natural disasters (Japan and Asia)
- GEO capacity building

Communication and dissemination

- allocate appropriate efforts and resources for dissemination, to promote the use and uptake of results;
- requirement to:
 - deposit peer-reviewed articles resulting from projects in institutional or subject-based repository
 - make best efforts to ensure readers have open access to these articles within six months of publication;
- list of topics with special focus on dissemination, knowledge transfer and public engagement in WP introduction.

WP 2013

Simplification of structure of calls

- **all Collaborative Projects: 2-stage evaluation**
- **all Coordination and Support Actions: 1-stage evaluation**
- **separate call for Water Innovation and Demonstration projects (Collaborative Projects & Coordination Action): 1-stage evaluation**

also...

- **participation in cross-thematic Call 'The Ocean of Tomorrow'**
- **participation in call 'Energy Efficient Buildings (PPP)'**
- **1 Environment topic in the ERANET call**

WP 2013 Call details

Call name	identifier	Deadline	Total budget	Environment contribution
Environment two-stage	FP7-ENV-2013-two-stage	<i>Stage 1:</i> 16 October 2012 <i>Stage 2:</i> 28 February 2013	€248 million	€248 million
Environment one-stage	FP7-ENV-2013-one-stage	16 October 2012	€17 million	€17 million
Water innovation & demonstration	FP7-ENV-2013-WATER-INNO-DEMO	4 April 2013	€40 million	€40 million
The Ocean of tomorrow	FP7-OCEAN-2013	7 February 2013	€55 million	€15 million
Energy efficient buildings (PPP)	FP7-2013-NMP-ENV-EeB	4 December 2012	€116 million	€6 million
ERA-NET	ERANET-2013-RTD	28 February 2013	€61.1 million	€4 million

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





Challenge 6.1

Coping with climate change

Rationale

- High trends in global greenhouse gas emissions, and the slow progress of international climate negotiations, make it more necessary than ever to support strategic knowledge development in this field.

Objectives

- reduce key uncertainties linked to the functioning of the earth-climate system and quantification of climate change impacts (ocean and atmosphere processes, $>2^{\circ}\text{C}$ scenarios);
- explore the potential of adequate mitigation and adaptation policies to contribute to the 'Roadmap for moving to a competitive low carbon economy in 2050' (land use change, consumption based emissions, economics of adaptation).



Challenge 6.1

Coping with climate change

Indicative Topics

1. Climate-related ocean processes and combined impacts of multiple stressors on the marine environment
2. Atmospheric processes, eco-systems and climate change
3. Impacts of high-end scenarios
4. Land cover and land-use change and climate change mitigation
5. Quantification of consumption-based emissions of greenhouse gases and assessment of policy options
6. Economics of adaptation to climate change

Challenge 6.1

Coping with climate change

Modalities and budget

- **Two-stage**

- ENV.2013.6.1-1 – Collaborative Project
- ENV.2013.6.1-2 – Collaborative Project
- ENV.2013.6.1-3 – Collaborative Project
- ENV.2013.6.1-4 – Collaborative Project
- ENV.2013.6.1-5 – Collaborative Project
- ENV.2013.6.1-6 – Collaborative Project

- **One-stage**

- n/a

- **Indicative budget: €80 million**

Challenge 6.1

Coping with climate change

ENV.2013.6.1-1

Climate-related ocean processes and combined impacts of multiple stressors on the marine environment

Goal:

- enhance knowledge on key ocean-climate research issues, in view of a better understanding of main climate and GHG-related ocean processes and impacts

Proposals may address:

- relevant climate-related physical-chemical ocean processes and dynamics;
- cumulative impacts of GHG increase (e.g. acidification, warming and deoxygenation) and non-climatic stressors on marine biogeochemistry, ecosystems and ecosystem services, including feedbacks;
- socio-economic vulnerabilities for relevant economic activities and human welfare

Challenge 6.1

Coping with climate change

ENV.2013.6.1-1

Expected impact:

- better climate predictions and more accurate quantification of climate change impacts on oceans, marine ecosystems and services;
- improved EU and international policies aimed at protecting the marine environment;
- more effective policy and management options for societal responses to climate change.

Additional information:

- Bottom-up topic area: proposals may focus on different relevant processes and impacts
- Two-stage evaluation; one or more proposals can be selected
- Projects linked through a coordination mechanism defined during the negotiation stage
- Requested EU contribution shall not exceed: €9.000.000

Challenge 6.1

Coping with climate change

ENV.2013.6.1-2

Atmospheric processes, eco-systems and climate change

Goal:

- a better understanding of the impact of natural and anthropogenic emissions on atmospheric processes which interact, also through feedback mechanisms, with ecosystems and climate.

Proposals may address:

- atmospheric processes at various levels – from land surface, to troposphere, to the stratosphere – based on process studies integrating data from in situ measurements, space observations and modelling;
- large-scale field experiments where appropriate;
- focus may be on:
 - atmospheric pollutants, climate change and land ecosystems
 - formation and properties of clouds and their climate forcing
 - climate change, stratospheric processes and ozone depletion.

Challenge 6.1

Coping with climate change

ENV.2013.6.1-2

Expected impact:

- improved representation of atmospheric processes and their interaction with ecosystems and climate in earth system models.

Additional information:

- Bottom-up topic area: proposals may focus on different relevant processes and impacts
- Two-stage evaluation; one or more proposals can be selected
- Projects linked through a coordination mechanism defined during the negotiation stage
- Requested EU contribution shall not exceed: €9.000.000

Challenge 6.1

Coping with climate change

ENV.2013.6.1-3

Impacts of higher-end scenarios (global average warming $>2^{\circ}\text{C}$ with respect to pre-industrial level)

Goal:

- better quantification of impacts and vulnerabilities;
- information for policy makers on the risks, opportunities, costs and benefits linked to different adaptation and mitigation pathways.

Proposals should address:

- representative concentration pathways (RCP);
- assessment and comparison of impacts, vulnerabilities and adaptation options and their costs for key sectors;
- different spatial and temporal scales.

Challenge 6.1

Coping with climate change

ENV.2013.6.1-3

Expected impact:

- innovative and effective mitigation and adaptation strategies;
- support for development and implementation of international climate agreements;
- reduction of uncertainties in long-term projections of climate change impacts.

Additional information:

- Two-stage evaluation; one or more proposals can be selected
- Projects linked through a coordination mechanism defined during the negotiation stage
- Requested EU contribution shall not exceed: €9.000.000

Challenge 6.1

Coping with climate change

ENV.2013.6.1-4

Land cover and land-use change and climate change mitigation

Goal:

- quantify the net climate effects of major land cover and land use changes (both direct and indirect) in a global context in order to better assess their mitigation potential.

Proposals should address:

- the representation of land cover and land use change in global climate models and evaluation of model performance;
- the interplay with climate change adaptation, energy security, water availability and food production;
- methodologies concerning monitoring, reporting and verification (MRV).

Challenge 6.1

Coping with climate change

ENV.2013.6.1-4

Expected impact:

- input to the design, assessment and implementation of European and international policies;
- development of good practice guidelines regarding monitoring, reporting and verification (MRV) also with reference to indirect land use change (ILUC) criteria.

Additional information:

- Two-stage evaluation; one or more proposals can be selected
- Projects linked through a coordination mechanism defined during the negotiation stage
- Requested EU contribution shall not exceed: €6.000.000

Challenge 6.1

Coping with climate change

ENV.2013.6.1-5

Quantification of consumption-based emissions of greenhouse gases and assessment of policy options

Goal:

- to complement existing reduction efforts of domestic greenhouse gases (GHG) emissions with adequate policy instruments that address the influence of consumption patterns.

Proposals should address:

- development of further analytical tools to better quantify global emissions from consumption of goods and services;
- identification of demand-side tools and policies that can trigger a change in consumption patterns towards a low-carbon future;
- exploration of other major related transformations (i.e. international trade flows, technology transfer, innovation) and their policy implications.

Challenge 6.1

Coping with climate change

ENV.2013.6.1-5

Expected impact:

- stimulation of innovative European and international climate policies and services due to the improved shared knowledge base on consumption emissions;
- more effective policy mix for achieving the objectives of the EU Climate and Energy package and the Roadmap for moving to a competitive low carbon economy in 2050.

Additional information:

- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €3.000.000

Challenge 6.1

Coping with climate change

ENV.2013.6.1-6

Economics of adaptation to climate-change

Goal:

- a more reliable quantification of the costs of climate-change consequences and assessment of adaptation options in order to further substantiate the economic case for adaptation to climate change.

Proposals should address:

- methodological developments in order to:
 - assess costs, benefits and effectiveness of adaptation policies/measures;
 - scale up bottom-up information on local adaptation and aggregate it at EU and national level;
 - better understand inter-linkages of adaptation policies with other policies.

Challenge 6.1

Coping with climate change

ENV.2013.6.1-6

Expected impact:

- better quantification of the social and economic costs and benefits;
- more effective knowledge-based climate mitigation policy options;
- improved integration of adaptation research into decision making, mainstreaming adaptation in sectoral EU policies;
- improved prospects for innovative policy making and services in adaptation.

Additional information:

- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €3.000.000

Challenge 6.2 Sustainable use and management of land and sea

Overall aim

- to improve the knowledge base on how ecosystems react to pressures in order to underpin the implementation of the transition phase to resilient, sustainable and resource efficient societies.



Challenge 6.2 Sustainable use and management of land and sea

Indicative Topics

1. Water resources management under complex, multi-stressor conditions
2. Toxicants, environmental pollutants and land and water resources management
3. Transition to sustainable, low-carbon societies
4. Sustainable land care in Europe
5. Urban biodiversity and green infrastructure
6. Improved monitoring of the impact of cultivation on the environment using global Earth Observations
7. Development of advanced technologies and tools for mapping, diagnosing, protecting and managing cultural landscapes in rural areas
8. Sustainable management of Europe's deep sea and sub-sea floor resources

Challenge 6.2

Sustainable use and management of land and sea

Objectives

- *Provide knowledge-based options for addressing the major **societal challenge** towards sustainable use and management of land and sea*
 - ▶ E.g. by underpinning implementation of major EU legislation in water, soil, biodiversity and sea such as WFD, EU Soil Thematic Strategy etc
 - ▶ **Develop and strengthen European leadership in innovation in its broad concept .**
 - ▶ E.g. by developing new analytical methods, biomarkers, bio-indicators and bioassays with enhanced sensitivity in detecting and monitoring pollutants
 - ▶ **Promote and facilitate knowledge transfer, assessment, uptake and exploitation of scientific data and results.**
 - ▶ E.g. deliver innovative environmental governance, strategies and tools for integrated land and water resources management and to facilitate transition to sustainable, low carbon societies .



Challenge 6.2

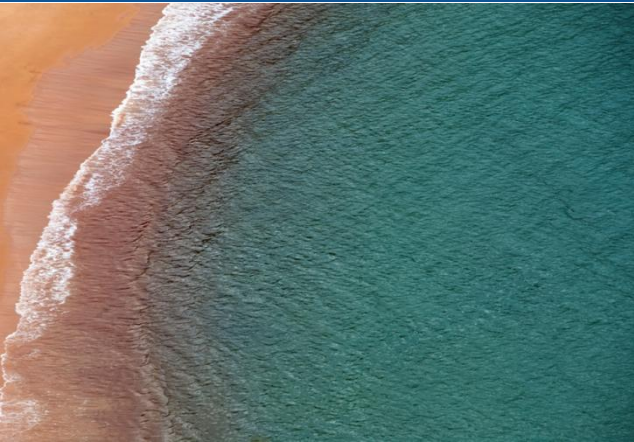
Sustainable use and management of land and sea

Cross-thematic call "'The Ocean of Tomorrow': joining research forces to meet challenges in ocean management"

implemented jointly by Food, Agriculture and Fisheries, and Biotechnology, NMP, Energy, Environment (including Climate Change) and Transport Themes

The EU Strategy for Marine and Maritime Research supports the objective of a thriving and sustainable maritime economy and is a key component in reconciling the growth of maritime activities with environmental sustainability. "The Ocean of Tomorrow" calls aim to foster multidisciplinary approaches and cross-fertilisation between various scientific disciplines and economic sectors on key cross-cutting marine and maritime challenges.

"The Ocean of Tomorrow" 2013 cross-thematic call will focus on marine technologies.



Challenge 6.2

Sustainable use and management of land and sea

Indicative Topics

1. Biosensors for real time monitoring of biohazard and manmade chemical contaminants in the marine environment
2. Innovative multifunctional sensors for in-situ monitoring of marine environment and related maritime activities
3. Innovative antifouling materials for maritime applications
4. Innovative transport and deployment systems for the offshore wind energy sector

Challenge 6.2

Sustainable use and management of land and sea

Modalities and budget

- **Two-stage**

- ENV.2013.6.2-1 – Collaborative Project
- ENV.2013.6.2-2 – Collaborative Project
- ENV.2013.6.2-3 – Collaborative Project
- ENV.2013.6.2-4 – Collaborative Project
- ENV.2013.6.2-5 – Collaborative Project
- ENV.2013.6.2-6 – Collaborative Project
- ENV.2013.6.2-7 – SME-targeted Collaborative Project
- ENV.2013.6.2-8 – Collaborative Project

- **One-stage**

- n/a

- **Indicative budget: €88 million** (*of which €15 million for the cross-thematic call "The Ocean of tomorrow"*)

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-1

Water resources management under complex, multi-stressor conditions

Goal:

- to enhance our understanding of stressors interactions, species interactions, species-stressor-relationships and impacts on the ecological functioning, stability and resilience of the aquatic ecosystems having a clear user perspective

Proposals should:

- develop holistic approaches and tools to diagnose changes in the ecological, quantitative and chemical status of surface and groundwater water bodies and in water availability in relation to multiple stress conditions;
- identify the relevant stressors which are responsible for their deterioration, and forecast;
- predict the ecosystem responses and ecological recovery as a consequence of alternative management measures on different spatial scales measures on different spatial scales;
- development of integrated impact assessment tools.

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-1

Expected impact:

- improved water status and availability of clean water;
- better implementation of water policy and optimal decision making in water resources management under complex multiple stress conditions, for sustainable resource use and flood risk reduction;
- more cost-effective Programmes of Measures (POMs) to improve the ecological status of surface water bodies from the local to the river basin scale and improve the groundwater body status.

Additional information:

- Collaborative Project
- Two-stage evaluation; one or more proposals can be selected
- Projects linked through a coordination mechanism defined during the negotiation stage
- Requested EU contribution shall not exceed: €9.000.000

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-2

Toxicants, environmental pollutants and land and water resources management

Goal:

- provide a common knowledge base on a wide range of toxicants and other chemicals acting as environmental and in particular aquatic pollutants with emphasis on emerging pollutants and the impacts of pollutant mixtures

Proposals should address:

- emerging pollutants, their metabolites and transformation products as well as their synergistic effects;
- knowledge improvement and modelling capacity regarding the sources, transport pathways, transfer times and fate of pollutants;
- the implications for the overall assessment of the ecological and human health risks;
- deliver chemical analysis methods and development of effect-based tools for the identification of pollutants causing harmful ecological impacts.

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-2

Expected impact:

- evidence based development of environmental and especially water policies with respect to emerging pollutants and pollutant mixtures through improved knowledge and tools;
- new knowledge enabling design of control measures and abatement options; assessment of their effectiveness in meeting objectives of WFD;
- identification of substances with emissions which might require regulation due to the risk posed to or via the aquatic environment, and evidence based reviews of the list of priority substances under the WFD;
- development of innovative identification and detection tools.

Additional information:

- Collaborative Project
- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €12.000.000
- EU contribution to SMEs is 15% or more

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-3

Transition to sustainable, low-carbon societies

Goal:

- better understanding of the values, policies and mechanisms behind societal transformation and of the knowledge gained from experiences at different scales with such societal transitions and their trajectories.

Proposals should:

- use an integrated and trans-disciplinary approach;
- identify and analyse in detail the key challenges of the transition to sustainable, low carbon and resource efficient societies;
- identify opportunities for innovation (including social innovation), co-benefits and job creation to respond and adapt to global environmental changes and support the development of green economic strategies in Europe.

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-3

Expected impact:

- better implementation of EU Sustainable Development and Biodiversity Strategies, 'Climate and Energy package (20/20/20 targets)' and 'Roadmap for moving to a competitive low carbon economy in 2050' through increased understanding of societal transformations processes in the transition to sustainable, low carbon societies;
- stimulation of public debate on social innovation & bottom-up approaches;
- provision of assessment of options and experiences to policy makers, improved decision making and cost-efficiency of policy response, better understanding of socio-economic and environmental impact of transition.

Additional information:

- Collaborative Project
- Two-stage evaluation; one or more proposals can be selected
- Projects linked through a coordination mechanism defined during the negotiation stage
- Requested EU contribution shall not exceed: €3.000.000

Challenge 6.2 Sustainable use and management of land and sea

ENV.2013.6.2-4

Sustainable land care in Europe

Goal:

- development of innovative mitigation and restoration measures at appropriate scales to combat soil degradation processes, including desertification.

Proposals should address:

- development and validation measures to address soil degradation processes or threats and to restore soil functions and ecosystem services through pilot projects or case studies and a demonstration phase, involving relevant stakeholders;
- assessment of the cost-effectiveness of these measures;
- an integrated impact assessment of the existing EU policies and strategies related to EU soil and land use to establish potential incoherence and contradictions.

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-4

Expected impact:

- underpinning of sustainable land use and management;
- contribution to achievement of objectives of EU Soil Thematic Strategy and support to implementation of EU Soil Sealing Guidelines, EU Floods Directive, European Landscape Convention;
- support to Member States in fulfilling relevant monitoring requirements under the UNCCD, particularly the mandatory impact indicators;
- provision of relevant information for a variety of EU policies, including agriculture, energy, and regional development.

Additional information:

- Collaborative Project
- Two-stage evaluation; one or more proposals can be selected
- Projects linked through a coordination mechanism defined during the negotiation stage
- Requested EU contribution shall not exceed: €9.000.000
- EU contribution to SMEs is 15% or more

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-5

Urban biodiversity and green infrastructure

Goal:

- provide a sound evidence base for the development of green infrastructures and strategies for planning and design of green infrastructure in cities and urban areas, appropriately adapted to scales from the local to the city region level

Proposals should address:

- the potential of sustainable use, as well as the status, trends, role and needs of urban biodiversity and ecosystem goods and services provided by urban green infrastructure;
- the innovation potential of urban ecosystem services (including social innovation and health promotion) regarding their provision, valuation, protection and sustainable use;
- the integration of environmental services with socio-cultural and economic services and the engagement with local communities, as a contribution to a green economy;
- planning and governance approaches that support the conservation and restoration of urban biodiversity and the building and maintaining of green infrastructure.

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-5

Expected impact:

- Enhanced provision of ecosystem services by green infrastructure in correlation with environmental policy objectives.
- Link environmental services with socio-cultural and health aspects.
- Innovative contributions of ecosystem services to urban green economy.
- Tools/incentives for better implementation of environmental policies and improvement of environmental status, including implementation of Soil Sealing Guidelines.
- Enhanced collaboration between disciplines and stakeholders involved with urban green infrastructure, particularly at local and regional scale.

Additional information:

- Collaborative Project
- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €6.000.000
- EU contribution to SMEs is 15% or more

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-6

Improved monitoring of the impact of cultivation on the environment using global Earth Observations

Goal:

- integrate coordinated satellite and in situ data into the GEOSS Data-CORE;
- enable the interoperability of this data;
- make it available to users in support of the development of a global system of systems for crop monitoring.

Proposals should address:

- provision, in collaboration with SMEs Earth Observation techniques, crop and agricultural land use monitoring methods, model development, and spatial and statistical analysis;
- contribution to the development of crop production projections through the use of global mapping strategies;
- establishment of international partnership and ensure a collaboration mechanism with GEO.

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-6

Expected impact:

- significant European contribution to the G20 GEO-GLAM initiative, reinforcing the awareness of decision and policy makers about the impact of agriculture on the global environment;
- networking of agricultural/environmental monitoring & research organisations;
- capacity building directed at a sustainable agricultural environment, enabling prediction of impact of crop production on natural resources and ecosystems;
- improved transparency of agricultural crop production and international coordination for risk-management capacity;
- European leadership for an initial global agricultural land monitoring system, based on both satellite and in situ observations.

Additional information:

- Collaborative Project
- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €9.000.000
- EU contribution to SMEs is 15% or more
- Research should be conducted in collaboration with international partners

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-7

Development of advanced technologies and tools for mapping, assessing, protecting and managing cultural landscapes in rural areas

Goal:

- improved understanding of historical components of rural cultural landscapes, and resilience to change;
- better defined protection and risk mitigation strategies.

Proposals should address, through interdisciplinary research:

- rural landscapes with significant archaeological or historical components;
- new technologies and methodologies for mapping, assessing, protecting and managing rural cultural landscapes;
- the main functions & values, together with the ecological and "natural" dimension of the territories;
- implications for regulating/public authorities.

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-7

Expected impact:

- contribution to innovative schemes and sustainable best practices for protection or remediation schemes applied to cultural landscapes of historic and archaeological value;
- favourable economic impact on the rural areas and sectors of activities concerned, including tourism, by exploitation and transfer of research results by eco-innovative services and SMEs at a regional, national, or European scale;
- enhance and assess socio-economic impacts of protection of cultural landscapes;
- implementation of European Landscape Convention.

Additional information:

- SME-targeted Collaborative Project
- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €3.000.000
- EU contribution to SMEs is 20% or more
- Participation of public authorities, agencies or associations of citizens in the consortium is strongly recommended.

Challenge 6.2

Sustainable use and management of land and sea

ENV.2013.6.2-8

Sustainable management of Europe's deep sea and sub-sea floor resources

Goal:

- assessment of the environmental impacts of the exploitation of deep sea raw material resources, in particular rare earth minerals, hydrothermal mineral deposits, methane hydrates and similar seafloor and sub-seafloor resources that can be extracted using various techniques.

Proposals should address:

- enhancement of the understanding of associated geological processes;
- assessment of the resilience of deep sea and sub-seafloor ecosystems and of biodiversity to resource extraction activities;
- recovery conditions, associated timescales and tipping points beyond which recovery is irreversible;
- assessment and demonstration of new monitoring technologies and systems to fully determine the functioning of the deep sea and sub-seafloor ecosystems where the resources are found.

Challenge 6.2 of land and sea

ENV.2013.6.2-8

Sustainable use and management

Expected impact:

- enhanced knowledge base on environmental impacts and processes linked to deep sea exploitation activities;
- determination of boundary conditions of environmentally sustainable exploitation;
- improved governance of deep sea environments;
- innovative technologies and systems, leading to increased European competitiveness in the marine technology sector;
- substantial contribution to implementation of EU initiatives (e.g. Integrated Maritime Policy, 'A Resource-Efficient Europe' roadmap, Marine Strategy FWD);
- synergies with international initiatives like the Integrated Ocean Drilling Programme (IODP).

Additional information:

- Collaborative Project
- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €9.000.000
- EU contribution to SMEs is 15% or more
- Significant involvement of industrial sector required

Improving Resource Efficiency



Overall aim

- speed up the transition towards a Green Economy and a 'culture of saving, reuse and recycling' by improving resource efficiency within and across all sectors and build up more sustainable patterns for consumption and production
- enhance participation of private sector, especially SMEs, in research, with a view to strengthening innovation and increasing the potential for market uptake of project results.



Challenge 6.3

Improving resource efficiency

Rationale

- help stimulate the European economy and face the challenge of sustainable growth;
- address the challenge of transitioning to a green economy and contribute to measuring progress towards it;
- support relevant EU policy commitments (Roadmap on a Resource-Efficient Europe, Eco-Innovation Action Plan, proposed European Innovation Partnerships on 'Water' and 'Raw Materials', Energy Efficient Buildings Initiative).

Objectives

- promote the development and testing of highly eco-innovative technologies, processes and services to valorise urban wastes and recover raw materials from industrial wastes;
- support demonstration projects to improve the viability and market uptake of existing cutting-edge eco-innovative technologies, processes and services, including water innovative demonstration projects;
- improve the assessment of global water resources through advanced EO systems;
- improve resource efficiency and energy use of existing buildings.



Challenge 6.3

Improving Resource Efficiency

Indicative Topics

1. Turning waste into a resource through innovative technologies, processes and services
2. Eco-innovative demonstration projects
3. Contribution to the assessment of global water resources through the use of new Earth Observation datasets and techniques
4. Water innovation demonstration projects
5. Ensuring the integration of water and innovation demonstration projects and support to trans-national networks of procurers



Challenge 6.3 Improving Resource Efficiency

Indicative Topics

Support to "Energy Efficient Buildings Initiative" Public Private Partnership:

Energy efficient retrofitting and renewal of existing buildings for sustainable urban districts

Challenge 6.3

Improving resource efficiency

Modalities and budget

- **Two-stage call**

- ENV.2013.6.3-1 – SME-targeted Collaborative Project
- ENV.2013.6.3-2 – SME-targeted Collaborative Project
- ENV.2013.6.3-3 – Collaborative Project

- **WATER INNO&DEMO (One-stage)**

- ENV.2013.WATER INNO&DEMO-1 – SME-targeted Collaborative Project
- ENV.2013.WATER INNO&DEMO-2 – Coordination and Support Action

- **Energy Efficient Buildings Initiative (PPP) call**

- EeB.ENV.2013.6.3-4 – Collaborative Project

- **Indicative budget: €95 million**

(of which €40 million for the call ENV.2013.WATER INNO&DEMO and €6 million for the Public Private Partnership 'Energy Efficient Buildings Initiative')

Challenge 6.3

Improving resource efficiency

ENV.2013.6.3-1

Turning waste into a resource through innovative technologies, processes and services

Goal:

- urban solid waste valorisation and raw materials recovery;
- reduced demand for primary raw materials, lower environmental impact;
- improved resource efficiency and increased competitiveness.

Proposals should:

- consider new, radical, breakthrough solutions, sustainability from a life-cycle perspective, pilot trials to facilitate market uptake, new business models;
- address one of the following sub-topics:
 - a) valorisation of urban solid waste (collection, handling, separation, processing, upcycling, transformation, recycling of solid wastes)
 - b) recovery of valuable raw materials from waste generated in key industrial sectors

Challenge 6.3

ENV.2013.6.3-1

Improving resource efficiency

Expected impact:

- breakthrough innovation in novel technologies, products or services with high potential to achieve a more green economy, new business models, industrial symbiosis, and cradle-to-cradle approaches;
- more sustainable consumption and production patterns, improved resource efficiency, reduced environmental impacts, waste production and pressure on raw materials;
- substantial contribution towards the sustainable supply of raw materials of economic importance in Europe;
- improved communication and transfer of knowledge to policy making, business and to the general public.

Additional information:

- SME-targeted Collaborative Project
- Two-stage evaluation; one or more proposals can be selected
- Requested EU contribution: as appropriate (wide range expected)
- EU contribution to SMEs is 30% or more. Topic mainly addressed to SMEs and industries

Challenge 6.3

Improving resource efficiency

ENV.2013.6.3-2

Eco-innovative demonstration projects

Goal:

- effective demonstration of existing cutting edge eco-innovative technologies, processes and services that can clearly enable stricter, smarter and more ambitious environmental standards, to strengthen their market potential and long-term sustainability

Proposals should address:

- demonstration activities, prior to commercialisation, excluding market replication and market demonstration activities, product development and commercial development activities;
- technology transfer, training activities and standardisation activities;
- any eco-innovative fields and industrial sectors (e.g. construction and demolition waste; remediation of contaminated sites; pesticides and fertilisers in agriculture; urban mining; waste from electric and electronic equipment; climate change adaptation).

Challenge 6.3

Improving resource efficiency

ENV.2013.6.3-2

Expected impact:

- more rapid market uptake of already developed eco-innovative technologies with high potential to preserve the environment;
- opportunities for new start-ups and markets in the short and medium term;
- implementation of the Eco-innovation Action Plan and the Roadmap to a Resource-Efficient Europe;
- improved communication and transfer of knowledge to policy making, business and to the general public;
- raising European citizens' awareness of eco-innovation opportunities and social acceptance of eco-innovative technologies and production patterns.

Additional information:

- SME-targeted Collaborative Project
- Two-stage evaluation; one or more proposals can be selected
- Requested EU contribution: as appropriate (wide range expected)
- EU contribution to SMEs is 30% or more. Topic mainly addressed to SMEs and industries.

Challenge 6.3

Improving resource efficiency

ENV.2013.6.3-3

Contribution to the assessment of global water resources through the use of new Earth Observation datasets and techniques

Goal:

- development of improved tools and modern techniques for the assessment of regional and global water resources

Proposals should address:

- co-ordinated and sustained observations of the water cycle at multiple scales;
- quantification, quality and availability of global surface and groundwater resources, and the modelling of their evolution over time;
- integration of data resources from recent EO observation missions (e.g. SMOS, GOCE, CRYOSAT, and METOP) into the GEO initiative;
- provision of data on a global scale on the state and evolution of the world's water resources to the broader water and ocean research community.

Challenge 6.3

Improving resource efficiency

ENV.2013.6.3-3

Expected impact:

- increased availability of information products and services for monitoring regional and global water resources;
- significant contribution to a GEOSS Water Cycle Integrator (WCI) to provide holistic views of water cycle information, through integration of observations, research, modelling and analysis;
- advanced Earth Observation system in support of international agreements on water management and European water policies;
- more efficient distribution of water at regional level, in particular in developing countries by building the required knowledge base and providing information on ground water, coastal zones, floods and droughts to all stakeholders.

Additional information:

- Collaborative Project
- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €9.000.000
- EU contribution to SMEs is 15% or more
- Research should be conducted within an international framework

Challenge 6.3

Improving resource efficiency

ENV.2013.WATER INNO&DEMO-1

Water innovation demonstration projects

Goal:

- support demonstration projects in areas of urban water management, rural water management and industrial water management;
- mobilise industry, Member States and stakeholders to promote innovative solutions for water-related challenges;
- effective implementation of European directives and policies while creating market opportunities for European industry and SMEs.

Proposals should address:

- demonstration of innovative solutions, based on the integration of technological, organisational, financial, ICT and management approaches;
- bringing together various sites across Europe with similar problems in an integrated and coordinated way;
- links and synergies with major related water investment/implementation projects at local, regional or national level;
- standardisation, dissemination and exploitation activities, improved communication and transfer of knowledge, and activities to increase market uptake of results.

Challenge 6.3

Improving resource efficiency

ENV.2013.WATER INNO&DEMO-1

Expected impact:

- implementation of the Europe 2020 Flagship Initiative on Innovation Union; contribution to the Commission's initiative on 'Smart Cities and Communities', and especially to the aims of the proposed European Innovation Partnership on 'Water', to promote growth and job creation in Europe;
- strong partnership between public authorities, regulators, water utilities and companies, the research community and the public, to make best use of existing instruments, to align and pool resources in order to adopt innovative water solutions more rapidly and to achieve objectives of water-related policy;
- creation of market opportunities and increased demand for innovation leading to global leadership for the European water technology and services sectors through clear demonstration of capability to facilitate market uptake and potential to stimulate demand side measures for innovation.

Additional information:

- SME-targeted Collaborative Project
- One-stage evaluation; one or more proposals can be selected
- Requested EU contribution shall not exceed: €6.000.000
- EU contribution to SMEs is 30% or more. Topic mainly addressed to SMEs and industries

Challenge 6.3

Improving resource efficiency

ENV.2013.WATER INNO&DEMO-2

Ensuring the integration of water and innovation demonstration projects and support to trans-national networks of procurers

Goal:

- ensure optimal coordination between the various sites of the demonstration projects (see topic ENV.2013.WATER INNO&DEMO-1) and the future Innovation Sites to be selected in the proposed European Innovation Partnership on 'Water';
- promote the development and use of innovation-oriented public procurement in the field of water.

Proposals should address one of the following:

- creation of a network of public and private water sector stakeholders, to promote a continuous dialogue and exchange of good practices, improve communication and transfer of knowledge, and identify gaps in matching demand and supply innovation measures;
- creation of a network of public authorities to promote innovative public procurement in the water sector.

Challenge 6.3

Improving resource efficiency

ENV.2013.WATER INNO&DEMO-2

Expected impact:

- implementation of Europe 2020 Flagship Initiative on Innovation Union, and especially contribution to the aims of the proposed European Innovation Partnership on 'Water', to promote growth and job creation in Europe;
- strong partnership between public authorities, regulators, water utilities and companies, the research community and the public for more rapid implementation of innovative water solutions;
- reduced fragmentation of public sector demand through collective implementation of procurement strategies and joint actions;
- sharing of risks and benefits of designing, prototyping and testing a limited number of new products and services with suppliers; increased opportunities for wide commercialisation and uptake of R&I results.

Additional information:

- Coordination and support action (coordinating action)
- One-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €1.000.000

Challenge 6.3

Improving resource efficiency

EeB.ENV.2013.6.3-4 (Call FP7-2013-NMP-ENV-EeB)

Energy efficient retrofitting and renewal of existing buildings for sustainable urban districts

This topic is a contribution to the Energy efficient Buildings (EeB) PPP and is implemented in cooperation with NMP and Environment (incl Climate Change)

Please Note: Info Day dedicated to PPPs to be held on 9th -10th July 2012 in Brussels

http://ec.europa.eu/research/industrial_technologies/ppp-in-research_en.html

Goal:

- develop improved decision support tools for cost-optimal design, planning and implementation of renewal/retrofitting projects;
- support solutions that fully leverage the very latest innovations and best available technologies capable of improving energy performance of buildings and districts while addressing multiple resource challenges and ecosystem-based approaches (in a Life Cycle perspective).

Proposals should address:

- develop tools or solutions, and demonstrate and verify their impact potential;
- quantification of improvements in resource efficiency, greenhouse gas emissions, and health and comfort, including associated economic impacts;
- integrating the overall value chain, including active involvement of SMEs.

Challenge 6.3

Improving resource efficiency

EeB.ENV.2013.6.3-4

Expected impact:

- demonstrably improved resource efficiency of existing buildings and clear reduction in energy use, in particular, together with associated CO₂ emissions;
- benefits to stakeholders across the entire value chain including SMEs, leveraging the latest innovations that incorporate technologies from a wide variety of disciplines;
- guidance to local community development agencies, developers, SMEs as suppliers and users of technologies, etc.;
- support for the implementation of the Directive on the Energy performance of buildings and the Roadmap to a Resource-Efficient Europe, and contribution to the aims of the Commission's initiative on 'Smart Cities and Communities'.

Additional information:

- Collaborative project
- One-stage evaluation; one or more proposals can be selected
- Requested EU contribution shall not exceed: €3.000.000
- EU contribution to SMEs is 15% or more.

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



Challenge 6.4

Protecting citizens from environmental hazards

Indicative Topics

1. Assessing individual exposure to environmental stressors and predicting health outcomes: paving the way for a EU-wide assessment
2. Closing gaps of knowledge and reducing exposure to electromagnetic fields (EMF)
3. Coasts at threat in Europe: tsunamis and climate-related risks
4. Towards stress tests for critical infrastructures against natural hazards

Challenge 6.4

Protecting citizens from environmental hazards



Rationale

- Natural and anthropogenic hazards affect the human and natural capital of the planet. Strategies to minimise the risks have to be put in place at all scales.

Objectives

- the comprehensive understanding of population exposures to environmental health determinants in Europe (exposome and EMFs);
- improved knowledge of how to prepare, prevent, monitor, forecast, warn, defend and react with respect to natural hazards (coastal threats and stress tests).

Challenge 6.4

Protecting citizens from environmental hazards

Modalities and budget

- **Two-stage**
 - ENV.2013.6.4-1 – Collaborative Project
 - ENV.2013.6.4-2 – Collaborative Project
 - ENV.2013.6.4-3 – Collaborative Project
 - ENV.2013.6.4-4 – Collaborative Project
- **One-stage**
 - N/a
- **Indicative budget: €36 million**

Challenge 6.4

Protecting citizens from environmental hazards

ENV.2013.6.4-1

Assessing individual exposure to environmental stressors and predicting health outcomes: paving the way for an EU-wide assessment

Goal:

- to collect new, harmonised large-scale exposure data from European populations to improve inter-country comparability of data;
- to link individual and population-based exposure data to health data to better understand environment-health relationships.

Proposals should address:

- collection of new harmonised exposure data;
- linking exposure data to health data (available and/or to be collected via a pilot European Exposure and Health Examination Survey);
- characterisation of individual exposomes via development of biomarkers;
- strategies to handle the data generated.

Challenge 6.4

Protecting citizens from environmental hazards

ENV.2013.6.4-1

Expected impact:

- better preventive strategies by improved assessment of individual exposures;
- reduced fragmentation of exposure data across the EU;
- improved EU risk assessment and management activities in the area of environment and health;
- development of innovative approaches to assess exposure-health relationships in an integrated manner.

Additional information:

- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €12.000.000

Challenge 6.4

Protecting citizens from environmental hazards

ENV.2013.6.4-2

Closing gaps of knowledge and reducing exposure to electromagnetic fields (EMF)

Goal:

- better understanding of the mechanisms generating potential biological effects of EMFs;
- improve exposure and health risk assessment of EMFs and underpin policy development.

Proposals should address:

- the role of radiofrequency (RF) and/or intermediate frequency (IF) field exposures in areas where knowledge gaps remain;
- collection of data on cumulative personal exposures from various sources;
- non-technological means to reduce exposure.

Challenge 6.4

Protecting citizens from environmental hazards

ENV.2013.6.4-2

Expected impact:

- support to EU and national regulatory bodies and policies by improving reliability of research data on potential effects of EMF exposures;
- application of novel approaches to EMF health research;
- exposure reduction.

Additional information:

- Two-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €6.000.000

Challenge 6.4

Protecting citizens from environmental hazards

ENV.2013.6.4-3

Coasts at threat in Europe: tsunamis and climate-related risks

Goal:

- improve resilience to climate-related or tsunami catastrophic events;
- reduce coastal vulnerability and risks, potential social and economic losses and environmental impacts of these events.

Proposals should address:

- either tsunamis or extreme hydro-meteorological events;
- a European focus, but international cooperation is encouraged;
- improved forecasting and early warning;
- improved prevention/mitigation/preparedness capacity;
- innovative, cost-effective solutions as well as ecosystem-based approaches;
- organisational and institutional/governance aspects.

Challenge 6.4

Protecting citizens from environmental hazards

ENV.2013.6.4-3

Expected impact:

- contribution to the disaster risk reduction goals of UNISDR;
- design of cost-effective risk-reduction plans;
- improved risk governance and preparedness.

Additional information:

- Two-stage evaluation; one or more proposals can be selected
- Cooperation with international initiatives and non-EU partners is encouraged
- Projects should consider clustering activities (Belmont Forum call)
- Requested EU contribution shall not exceed: €6.000.000

Challenge 6.4

Protecting citizens from environmental hazards

ENV.2013.6.4-4

Towards stress tests for critical infrastructures against natural hazards

Goal:

- develop the knowledge base and new hazard and risk assessment methodologies for low frequency, high consequence natural hazard events
- contribute to improved future "stress tests" of critical infrastructures.

Proposals should address:

- learning from and capitalising on previous events and experiences;
- investigating the necessary concepts, standards and methodologies;
- uncertainties, scale-dependent hazard assessment, vulnerability-dependent degradation, multiple risks, cascading effects, interactions with environmental and societal changes;
- test applications.

Challenge 6.4

Protecting citizens from environmental hazards

ENV.2013.6.4-4

Expected impact:

- reinforced European safety assessment capacity;
- contribution to more reliable future stress tests of critical infrastructures;
- support to decision making and prioritisation in the field of mitigation options and to preparedness;
- better surveillance capacity.

Additional information:

- Two-stage evaluation; one or more proposals can be selected
- Projects linked through a coordination mechanism defined during the negotiation stage
- Projects should consider clustering activities (EURATOM programme and the Security Theme)
- Requested EU contribution shall not exceed: €3.000.000



WP2013

Challenge 6.5

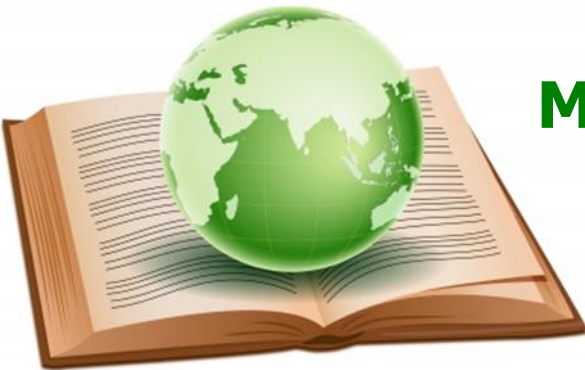
Mobilising environmental knowledge for policy, industry and society

Overall aim

- **to stimulate innovative approaches and tools to facilitate knowledge transfer, as well as uptake and exploitation of research data and results by policy makers, enterprises and society at large.**

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society



Objectives:

- to harness environmental knowledge to support EU policies in selected areas of societal interest
- to promote sustainable economic development through sharing and exploiting knowledge
- to support the European Research Area, notably in the area of cultural heritage
- to accelerate progress towards the Green Economy in the post Rio+20 context
- to promote international cooperation with selected regions through networking activities and project clustering
- to provide trends and prospects of research and innovation, policy and market potential in the areas of climate, resource efficiency and raw materials

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society



Indicative Topics

1. Accelerating progress towards the Green Economy
2. Mobilising environmental knowledge for policy & society
3. Exploiting the European Open Data Strategy to mobilise the use of environmental data and information
4. Knowledge platforms, networking and uptake of research results for more strategic international R&I cooperation
5. Network of forward looking activities and assessment of research and innovation prospects
6. ERA-NET Plus action: Development of new methodologies, technologies and products for the assessment, protection and management of historical and modern artefacts, buildings and sites

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

Modalities and budget

- **Two-stage**
 - ENV.2013.6.5-3 – Collaborative Project
- **One-stage**
 - ENV.2013.6.5-1 – Coordination and Support Action
 - ENV.2013.6.5-2 – Coordination and Support Action
 - ENV.2013.6.5-4 – Coordination and Support Action
 - ENV.2013.6.5-5 – Coordination and Support Action
- **FP7-ERANET-2013**
 - ENV.2013.6.5-6 – Coordination and Support Action (ERA-NET Plus)
- **Indicative budget: €31 million**
(of which €4 million for the FP7-ERANET-2013 call)

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-1

Accelerating progress towards the Green Economy

Goal:

- take stock of indicators and support tools for quantifying the environmental and the economic impacts of human activities;
- take stock of relevant experiences and research outputs for eco-innovation;
- create a thematic knowledge base feeding the sustainable consumption and production discussion.

Proposals should address one of the following:

- Measuring progress: stocktaking - evidence based identification of the most adequate sustainable development indicators and support tools
- Best practices and lessons learnt in the field of eco-innovation
- Business practices for promoting 'Green Economy' and sustainable production and consumption post Rio+20

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-1

Expected impact:

- faster transition to a green European economy, dissemination of eco-innovation best practices, support for eco-innovation uptake, sustainable business options and contribution to job creation;
- enhanced implementation of relevant EU policies;
- improved indicators and support tools for policy makers;
- improved communication, transfer of knowledge and networking between policy makers, business, civil society organisations and the general public;
- reinforced dialogue at international level.

Additional information:

- Coordination and Support Action (coordinating action)
- One-stage evaluation; up to one proposal per sub-topic can be selected
- Requested EU contribution shall not exceed: €1.000.000

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-2

Mobilising environmental knowledge for policy and society

Goal:

- development of innovative approaches, models and tools for policy makers to facilitate transfer and uptake of scientific knowledge, and awareness raising, in key policy areas both within Europe and globally.

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-2

Mobilising environmental knowledge for policy and society

Proposals should address one of the following:

- policy and economic implications of the post-2012 climate agreements;
- improved science-based policy decision making in disaster risk reduction;
- empowering international economic development through the use of environmental Earth Observations;
- raising societal awareness and tackling skill shortages on raw materials;
- implications of socio-economic research on air pollution policy;
- designing environmental research and innovation for solutions and uptake of results in the Danube macro region;
- research partnerships to sustainably manage the biodiversity in EU Outermost Regions (OR) and Overseas Countries and Territories (OCT).

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-2

Expected impact:

- contribution to environment policy development, implementation and impact (EU climate policy, disaster risk reduction, EU and global biodiversity strategies);
- economic development through the integration and exploitation of economic development initiatives and environmental Earth Observations;
- contribution to more efficient use of raw materials in Europe;
- improved policy making in Efficient river-delta-coast-sea management in the Danube macro region.

Additional information:

- Coordination and Support Action (coordinating action)
- One-stage evaluation; up to one proposal per sub-topic can be selected
- Requested EU contribution shall not exceed: €1.000.000

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-3

Exploiting the European Open Data Strategy to mobilise the use of environmental data and information

Goal:

- facilitating and demonstrating the exploitation of the GEOSS Data Collection of Open Resources for Everyone (GEOSS Data CORE).

Proposals should address:

- stimulating the re-use of public sector data and information, developing new environmental and climate tools and information products, and demonstrating the potential for innovation and growth;
- widening access to scientific data, allowing researchers in different domains to collaborate on the same data sets, and increasing the interoperability of data catalogues and the correlation of research results;
- sharing and exploiting data and information from varied sources, including: open public sector data portals, GMES and GEOSS.

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-3

Expected impact:

- creation of opportunities in global markets, new businesses, jobs and growth, through the delivery of a wide range of innovative products and services;
- better evidence-based policy making and administrative efficiency at all levels of government, resulting in improved public services, e.g. the provision of information to address crisis situations and disasters with cross-boundary impact;
- greater transparency in public administration through the improved visibility of information, informing citizens and business about policies, public spending and outcomes;
- empowering citizens and citizens' associations to contribute to environmental governance processes.

Additional information:

- Collaborative Project
- Two-stage evaluation; one or more proposals can be selected
- Requested EU contribution shall not exceed: €6.000.000
- EU contribution to SMEs is 30% or more.

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-4

Knowledge platforms, networking and uptake of research results for more strategic international R&I cooperation

Goal:

- to stimulate integrated and strategic bi-regional R&I cooperation activities with international partners from ASEAN, Latin America, the Mediterranean and the Black Sea, and the North Atlantic regions.

Proposals should address:

- clustering of and creation of synergies with relevant EU funded projects;
- networking of EU and third country researchers and other stakeholders to identify tools and instruments for enhanced cooperation, including twinning of projects.

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-4

Expected impact:

- more strategic, integrated and sustainable research and innovation collaboration in the field of climate change, resource efficiency and raw materials between the EU and the regions within the scope of the call;
- enhanced uptake and use of research and research results to address societal challenges among mutual bi-regional and bilateral priorities.

Additional information:

- Coordination and Support Action (coordinating action)
- One-stage evaluation; up to one proposal per region can be selected
- Requested EU contribution shall not exceed: €1.000.000

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-5

Network for forward looking activities and assessment of research and innovation prospects

Goal:

- to establish a research and innovation policy support network of research institutes and other stakeholder organisations such as think tanks, professional and industrial associations and policy analysts in order to provide advice on future R&I trends and prospects.

Proposals should address:

- establishing an R&I advisory network;
- forward looking analysis of R&I in the areas of climate action, resource efficiency and raw materials;
- development and monitoring of indicators for assessing the impact (policy, economy, society, sustainability) of EU R&I cooperation in the field of climate, resource efficiency and raw materials;
- production of quantitative and qualitative briefings with R&I information, trends and strategic options for EU research managers and policy makers.

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-5

Expected impact:

- improved quality of R&I policies and programmes in the fields of climate action, resource efficiency and raw materials through substantiated evidence and trends;
- improved impact of EU research and innovation on societies, policies and markets through advanced assessment of needs and developments;
- improved European competitiveness and leadership by early reaction to emerging trends, issues and opportunities.

Additional information:

- Coordination and Support Action (coordinating action)
- One-stage evaluation; up to one proposal can be selected
- Requested EU contribution shall not exceed: €3.000.000
- Expected duration: 5 years

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-6

Development of new methodologies, technologies and products for the assessment, protection and management of historical and modern artefacts, buildings and sites (ERA-NET Plus Action)

Goal:

- to further improve the coordination of national research activities and policies in the domain of cultural heritage research;
- to achieve a critical mass and significant degree of integration of R&I activities;
- to implement a single joint call for proposals for research projects in this field, on a subject of major interest and high European added value.

Proposals should address:

- mainly tangible cultural heritage research (possibly other cultural heritage aspects);
- development of new methodologies, technologies and products for the assessment, protection and management of cultural heritage artefacts, buildings and sites;
- assessment of the impact of past, present and future environments on cultural heritage;
- synergies derived from cooperation at transnational level.

Challenge 6.5

Mobilising environmental knowledge for policy, industry and society

ENV.2013.6.5-6

Expected impact:

- better use of scarce financial resources;
- increased quality of research and synergies at European, national and regional level;
- reduced fragmentation of research efforts.

Additional information:

- Coordination and support Action (ERA-NET Plus Action)
- One-stage evaluation; up to one proposal can be selected
- The requested EU contribution shall not exceed 33% of the cumulative joint call budget, up to a limit of €4.000.000 for the EU contribution.
- A single joint call should be implemented with a clear prior financial commitment from the participants.
- Open to all Member States/Associated Countries, within and beyond the Joint Programming Initiative on cultural heritage.

Thank you for your attention!

Find out more:

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