



*Prospects of Environmental Management
in FP6 and especially in IST*

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European Research Area



- Communication of European Commission 1/2000
“Towards a European Research Area”
- Lisbon Council : *“EU to become the most competitive and dynamic knowledge-based economy in the world”*
- FP6 the main instrument for the implementation of ERA
- Raise research budget from 1.9 to 3 % of GDP



European Research Area



- **Networking** of existing centres of excellence + the creation of virtual centres
- A common approach for **large research facilities** in Europe.
- **More coherent implementation** of national and European research activities
- Better use of instruments and resources to **encourage investment in research and innovation**
- Establishment of a **common system** of scientific and technical reference for the **implementation of policies**.
- More abundant and more mobile **human resources**
- **Bringing together the scientific communities**, companies and researchers of Western and Eastern Europe.
- **Improving the attraction** of Europe for researchers from the rest of the world.



Structure of the 6th FP



- **Focusing and Integrating EU Research** in
 - priority thematic areas
 - wider field of research (EU policies + NEST)
- **Structuring the ERA**
 - exert a more structuring effect on the research activities thanks to a stronger link with national, regional and other European initiatives
- **Strengthening foundation of ERA**
 - simplify + streamline implementation arrangements, on basis of defined intervention methods and envisaged decentralized management procedures



Focusing and Integrating EU Research



Thematic priorities:

- Life sciences, genomics + biotechnology for health
- **Information society technologies**
- Nanotechnologies + nanosciences, knowledge based multifunctional materials + new production processes + devices
- Aeronautics + space
- Food quality + safety
- **Sustainable development, global change + ecosystems**
- Citizens + governance in a knowledge based society

Specific activities covering a wider field of research

- **Support to community activities + NEST**
- SME
- International co-operation



Environmental priorities in WP 2003 -2004



- Improving risk management
 - open platforms, integrated systems, components for risk management, civil security applications + env. mgt.
- Focused on
 - key IST technologies (sensors, modeling + simulation, DSS + visualization, GRID for integrated systems for prevention + crisis mgt.
 - New concepts + IST for civil security for industrial + terrorist risk prevention + management of crisis
 - EU info-structure + services for integrated env. + crisis management, actions for harmonization, standardization of ontologies + Metadata, link to INSPIRE



Structuring the European research area



- **Research and innovation**
 - stimulation of transfer of knowledge, technology, utilization of research results
- **Human resources and mobility**
 - promoting transnational mobility, developing excellence
+ EU attractiveness to 3rd countries researchers
- **Research infrastructures**
 - optimisation of use + setting up of joint centres
- **Science + Society**
 - promote dialogue between science + citizens



Strengthening the foundations of ERA



- **Enhance co-ordination and coherent development of research policies in Europe** via
 - mutual opening up of national and regional programmes
 - networking of research facilities
 - COST
 - coordination with other EU cooperation frameworks (ESF)
 - co-operation with specialised EU scientific research organisations (CERN, EMBL, ESO, ESA...)
- **Support via analysis, working groups, benchmarking ...**



Instruments for 6th FP



- **New instruments**
 - Networks of Excellence (NoE)
 - Integrated Projects (IP)
 - Article 169 (participation in programs of several MS)
- **Traditional instruments**
 - Specific targeted research or innovation projects
 - Coordination actions
 - Specific support actions
 - Specific actions for SMEs
 - Specific actions to promote research infrastructure
- **Marie Curie actions**



Directives

CAFÉ

LIFE

**Community Framework for Cooperation to Promote
Sustainable Urban Development**

6th Environmental Action Program 2001-2010



Air quality + noise directives



Directive on ambient air quality assessment and management (1996)

Objectives: Maintain and improve air quality within the Community

Air quality daughter directives

Objectives: Setting limit values for specific pollutants as these were not fixed in the first directive

Noise directive

Objectives: concerning the assessment and management of environmental noise



Clean Air for Europe “CAFE”



Specific objectives:

- to develop, collect and validate scientific information leading to development and updating of air quality and deposition objectives, indicators and identification of measures required to reduce emissions;
- to support implementation and review the effectiveness of existing legislation and to develop new proposals as and when necessary;
- to ensure that the sectoral measures are taken ;
- to determine an overall, integrated strategy for appropriate air quality objectives for the future and cost-effective measures for meeting those objectives;
- to disseminate widely the technical and policy information arising from implementation of the programme.



LIFE



- LIFE-Environment does not finance research or investment in existing technologies or infrastructure. The purpose of the programme is to bridge the gap between research and development results and their large-scale application. To this end, demonstration projects based on the results of projects which have been supported under past or ongoing technological research and development programmes are encouraged.



Community Framework for Cooperation to Promote Sustainable Urban Development



Commission support and assistance to encourage the conception, exchange and implementation of good practices in the following fields:

- implementation at local level of EU environmental legislation
- sustainable urban development
- local Agenda 21



Environment 2010: Our Future, Our Choice

Four priority areas

- Climate Change
- Nature and Biodiversity
- Environment and Health
- Natural Resources and Waste



6th Environmental Action Programme



Key approaches

- ensure the implementation of existing environmental legislation
- integrate environmental concerns into all relevant policy areas
- work closely with business and consumers to identify solutions
- ensure better and more accessible information on the environment for citizens
- develop a more environmentally conscious attitude towards land use



Innovation 2000 Initiative of EIB



- EIB launched its "Innovation 2000 Initiative" for developing a knowledge-based society driven by innovation. The "Innovation 2000 Initiative" groups together the EIB's new actions to promote information networks, human capital formation and intangible corporate investment.
- <http://www.cordis.lu/finance/src/inno2000.htm>



Many thanks more information



- <http://www.cordis.lu/fp6/home.html>
- <http://www.cordis.lu/ist>
- <http://www.cordis.lu/ist/ka1/environment/home.html>
- http://www.europa.eu.int/comm/environment/index_en.htm
- <http://europa.eu.int/scadplus/leg/en/lvb/128031a.htm>
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