

Recovery plan of the European Union : 6 billion € to support Public-Private Partnerships (PPP) for research



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Presentation contents



1. PPPs following the EU recovery plan

2. FP7 and PPP contributions by theme

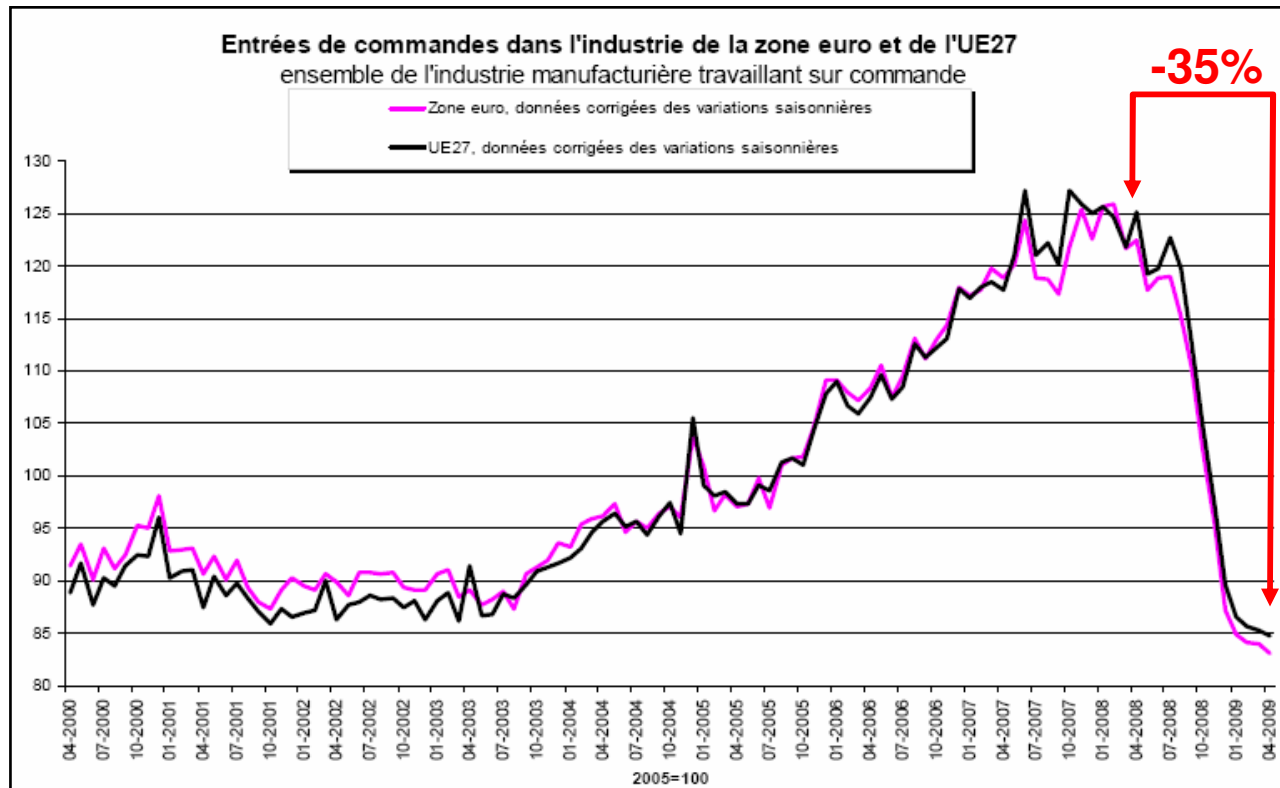
3. PPP implementation in 2010

4. Other FP7 topics in the July calls

1. The economic crisis



Industrial orders in Europe



Around the world,
about **2000 billion \$**
have been
committed by
governments to
recover the economy

Sources: - http://epp.eurostat.ec.europa.eu/cache/ITY_PUBLIC/4-25062009-AP/FR/4-25062009-AP-FR.PDF
- B.Graf, S.Schneider: „Wie bedrohlich sind die mittelfristigen Inflationsrisiken?“ In: DB Research 2009 [16]

1. Recovery Plan of the European Union with three PPPs



|||| Research Activities

- Adopted by the EC on 26 Nov 2008 and endorsed by the EU Council on 11-12 Dec 2008

- Includes 'smart investment' in research

*'To support **innovation** in the **manufacturing, construction** and **automotive** sectors, which have recently seen demand plummet as a result of the crisis and which also face significant challenges in the transition to the green economy...'*

- Three Public-Private Partnerships (PPPs)

Objective:** to promote the convergence of **public interest** with **industrial commitment and leadership** in determining **strategic research activities



1. Main elements of the Public-Private Partnerships



|||| Main elements

- Involvement of industry in the planning and implementation
- Quick response needed: implies use of existing instruments
 - 7th Framework Programme
 - SRAs developed by industry in the Technology Platforms
- Implementation approach:
 - In 2009, cross-thematic calls for proposals under FP7
 - In parallel, exploration of further calls and other options for longer term, e.g. Joint Technology Initiatives



1. Why a PPP ? (compared to business as usual)



|||| Benefits for Industry

- Industry wants to have a leading role in defining research priorities, and to be involved in programme implementation
- A multi-annual integrated Work Programme with pre-defined budget ensures continuity in the implementation of research strategies & allows industry to have long-term investment plans
- Activities going from basic and applied research through to large-scale demonstration. More emphasis on impact.
- Increased use of SME-friendly research instruments

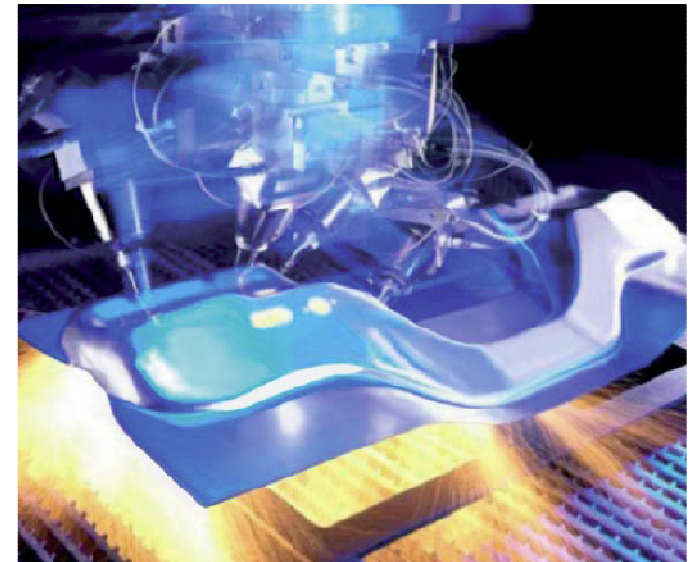


1. “Factories of the future” PPP initiative



|||| Recovery Plan // Research Activities

- Manufacturing is the driving force in the EU's economy, with 21% of GDP and 20% of all jobs
- 25 industrial sectors, dominated by SMEs
- Objective: Developing enabling technologies to support EU manufacturing across many sectors
- Themes: NMP, ICT
- € 1.2 billion in 4 years



1. Energy-efficient buildings” PPP initiative



|||| Recovery Plan // Research Activities

- The Construction industry accounts for 10% of EU's GDP and gives jobs to 32 million people
- Buildings represent 40% of energy use and 33% of Green House Gas emissions
- Objective: Developing building and district concepts with the potential to reduce energy use
- Themes: NMP, ENERGY, ICT, ENV
- € 1 billion in 4 years



1. “Green cars” PPP initiative



|||| Recovery Plan // Research Activities

- The Automotive sector gives jobs in the EU directly to 2 million and indirectly to 11 million people
- In Europe 73% of oil is used in transport. It is urgent to find alternatives to fossile fuels
- Objective: Supporting the emergence of more efficient and sustainable hybrid and electric cars
- Themes: TRANSPORT, NMP, ENERGY, ICT, ENV
- € 1 billion in 4 years



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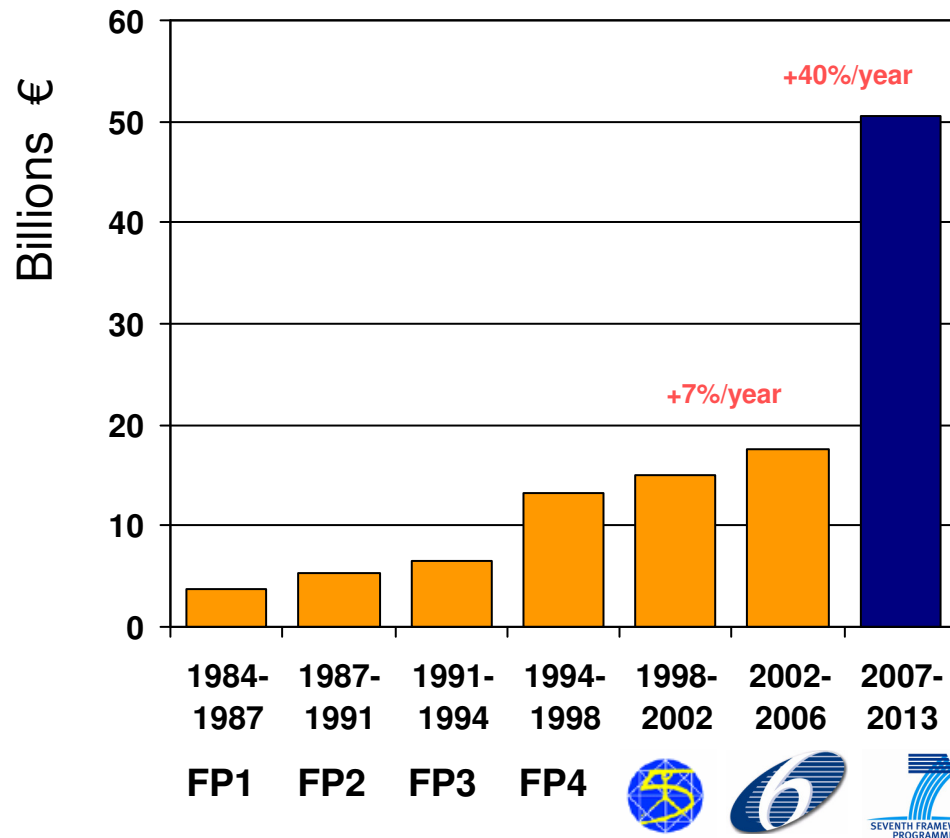
4. Other FP7 topics in the July calls

2.

European Framework programmes



||| Evolution of framework budgets



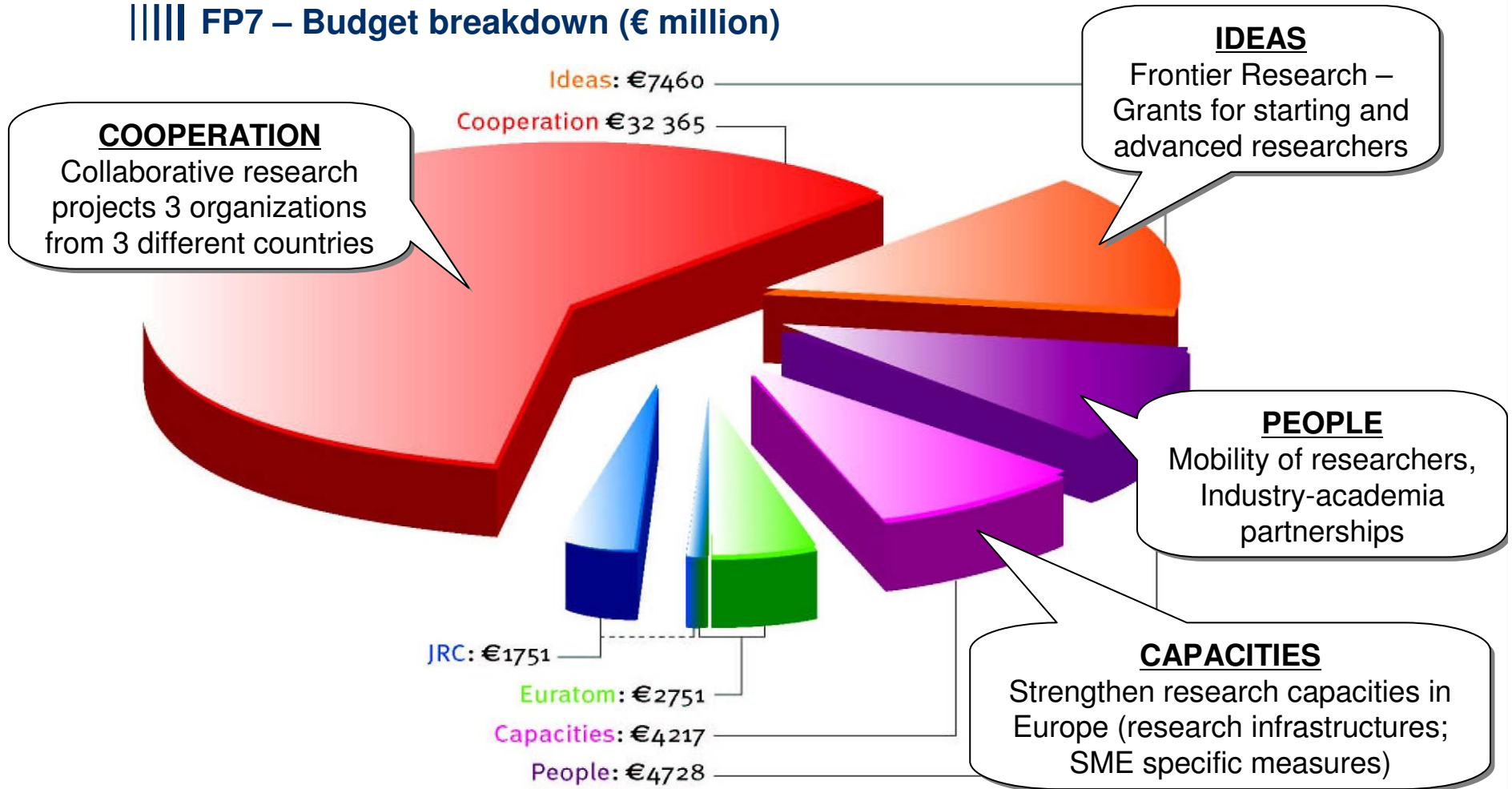
- **Seventh Framework Programme for Research and Technological Development**
- **EU's main instrument for funding research in Europe**
- **> 50 Billion €**
- **Runs from 2007-2013**
- **Designed to respond to Europe's employment needs, competitiveness and quality of life**

2.

FP7 at a glance (1/2): 4 main specific programmes



FP7 – Budget breakdown (€ million)

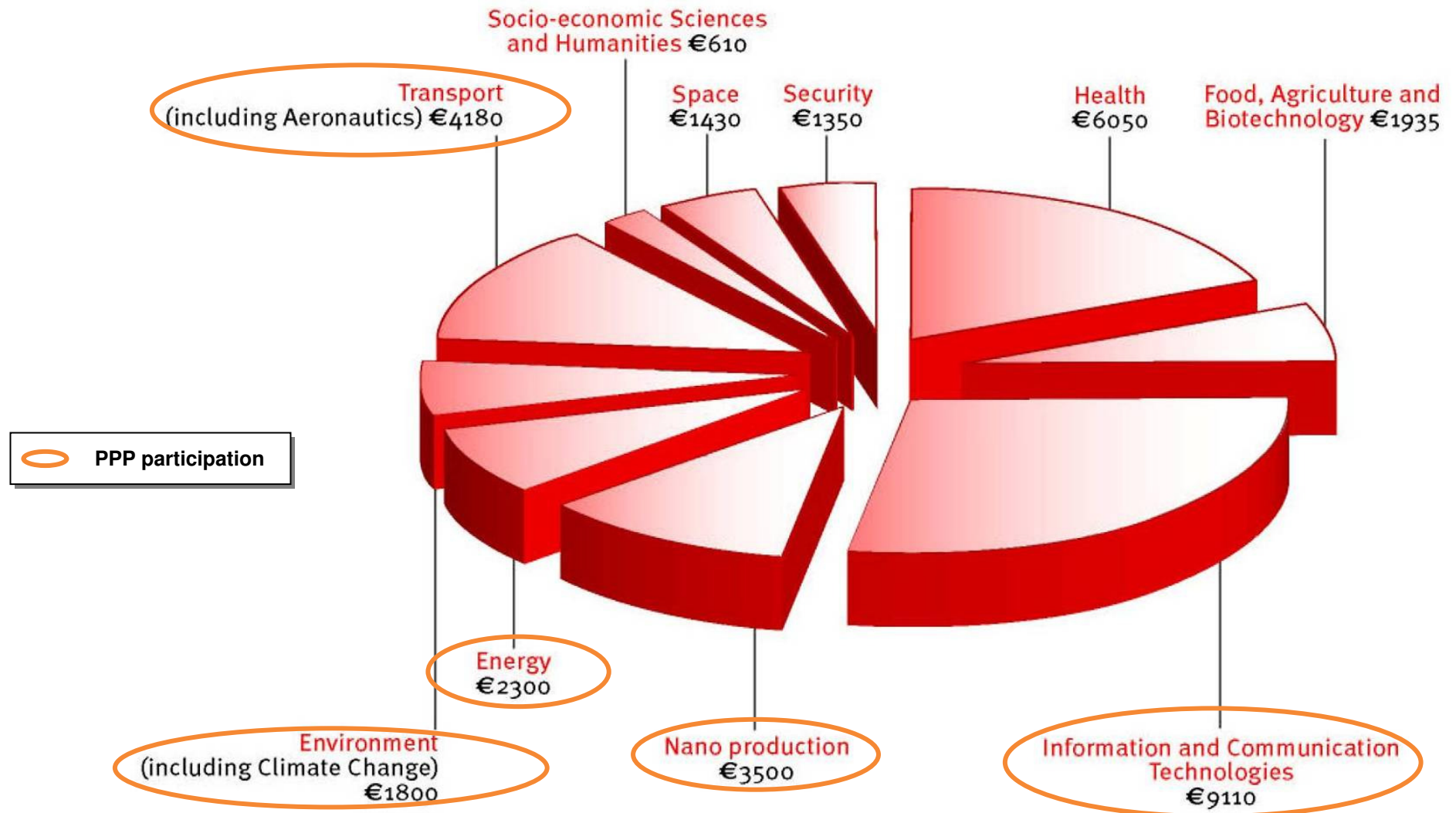


2.

FP7 at a glance (2/2): 10 thematic areas for collaborative projects



|||| Cooperation – Budget breakdown (€ million)



2.

1200 M€ of total FP7 contribution to the PPPs



|||| PPP FP7 research budget (2010-2013)

Budgets (M€)	TRANSPORT	NMP	ENERGY	INFSO	ENV	TOTAL FP7
Green Car	220	60	50	120	50	500
Energy efficient buildings		250	125	100	25	500
Factories of the future		400		200		600

+ 4000 M€
In EIB loans

→ Next to 6 billion € to support public-private research partnerships !



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3. 268 M€ funding for PPPs in 2010



|||| Budget Contributions 2010

(M€)	Green Car	Energy efficient Buildings	Factories of the future	Total
NMP	10	30	60	100
ICT	20	15	35	70
ENERGY	5	15		20
ENVIRONMENT	5	5		10
TRANSPORT	45+23			45+23
Total 2010	108	65	95	268



3. PPP Implementation in WP 2010



|||| Details

- **Specific PPP Annex to the WP, for high visibility**
- **Single stage evaluation, to reduce time-to-contract**
- **Mainly “Collaborative project”, but specific features per topic**
- **Call launch: 31 July 2009**
- **Closing dates: 3 November 2009 and 14 January 2010 (for Green Car Joint Call)**
- **Info-days:**
 - **13 july 2009: FoF, EEB, Green Cars**
 - **28-29 september 2009 : Only Green Cars**



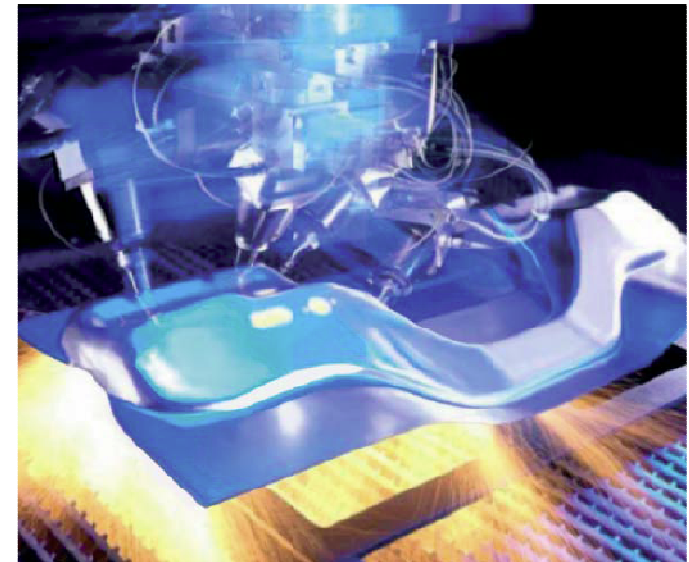
3.

Factories of the Future in 2010



|||| Call Topics WP 2010

- **Plug-and-produce components for adaptive control - NMP**
- **Supply chain approaches for small series industrial production -NMP**
- **Intelligent, scalable, manufacturing platforms and equipment for components with micro- and nano-scale functional features - NMP**
- **Smart Factories: ICT for agile and environmentally friendly manufacturing - ICT**



3.

Energy-efficient Buildings in 2010



|||| Call Topics WP 2010

- **New nanotechnology-based high performance insulation systems for energy efficiency - NMP**
- **New technologies for energy efficiency at district level - NMP**
- **ICT for energy-efficient buildings and spaces of public use - ICT**
- **Compatible solutions for improving the energy efficiency of historic buildings in urban areas - ENV**
- **Energy efficiency in buildings (demonstration) - ENE**



3.

Green Car in 2010



|||| Call Topics WP 2010

- **Materials, technologies and processes for sustainable automotive electrochemical storage applications – Joint Call: NMP, TRA, ENE, ENV**
- **Electrical machines - TRA**
- **Integrated electric auxiliaries and on-board system - TRA**
- **Optimised thermal engine development and integration - TRA**
- **Smart storage integration - TRA**
- **Advanced electric vehicle concepts - TRA**
- **Implementing PPP in the European Green Cars Initiative – CSA - TRA**
- **Raising awareness of potential job opportunities related to the electrification of road transport – CSA - TRA**
- **Integrated EU demonstration project on electromobility - TRA**
- **ICT for the Fully Electric Vehicle - ICT**



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4. Many other calls are open in July with a total budget of > 1600 M€



|||| Overview of important calls

Theme	Calls	Publication	Deadline	Budget
ICT	FP7- ICT -2009-5	31/07/2009	03/11/2009	722 M€
NMP	FP7-NMP-2010-LARGE-4	30/07/2009	08/12/2009	105 M€
	FP7-NMP-2010-SMALL-4	30/07/2009	08/12/2009	50 M€
	FP7-NMP-2010-SME-4	30/07/2009	08/12/2009	20 M€
ENERGY	FP7-ENERGY-2010-1	30/07/2009	15/10/2009	54 M€
	FP7-ENERGY-2010-2	30/07/2009	04/03/2009	135 M€
ENVIRONMENT	FP7-ENV-2010	30/07/2009	05/01/2010	213 M€
	FP7-AFRICA-2010	30/07/2009	14/01/2010	63 M€
TRANSPORT	FP7-AAT-2010-RTD-1	30/07/2009	14/01/2010	101 M€
	FP7-SST-2010-RTD-1	30/07/2009	14/01/2010	94 M€
	FP7-TRANSPORT-2010-TREN-1	30/07/2009	14/01/2010	35 M€
JOINT CALL	FP7-OCEAN-2010	30/07/2009	14/01/2010	34 M€
TOTAL				>1600 M€

Note: final dates, budgets and topic contents may change until official publication of the call

4. ICT FP7- ICT -2009-5

Publication	31 July 2009
Deadline	3 November 2009
Budget	722 M€

Challenge	Topics	Funding Schemes
1: Pervasive and Trusted Network and Service Infrastructures	ICT 2009.1.1 The Network of the Future	CP, NoE, CSA
	ICT 2009.1.2 Internet of Services, Software & virtualisation	CP, CSA
	ICT 2009.1.3 Internet of Things and enterprise environments	CP, CSA
	ICT 2009.1.4 Trustworthy ICT	CP, NoE, CSA
	ICT 2009.1.6 Future Internet Experimental Facility and Experimentally-driven Research	CP, CSA (CA only)
3: Components, systems, engineering	ICT 2009.3.1 Nanoelectronics Technology	CP, NoE, CSA
	ICT 2009.3.5 Engineering of Networked Monitoring and Control Systems	CP, NoE, CSA (CA only)
	ICT 2009.3.7 Photonics	CP, CSA
	ICT 2009.3.9 Microsystems and Smart Miniaturised Systems	CP, CSA
4: Digital Libraries and Content	ICT 2009.4.2 Technology-Enhanced Learning	CP, NoE, CSA
	ICT 2009.4.3 Intelligent information management	CP, NoE, CSA

Note: final dates, budgets and topic contents may change until official publication of the call

4. NMP FP7-NMP-2010-LARGE-4

Publication	30 July 2009
Deadline	8 December 2009
Budget	105 M€

Challenge	Topics	Funding Schemes
Health, Safety and Environmental Impacts	NMP-FP7-2010-1.3-1 Reference methods for managing the risk of engineered nanoparticles	CP (IP)
Novel biomaterials and bioinspired materials	NMP-FP7-2010-2.3-1 Development of standard scaffolds for the rational design of bioactive materials for tissue regeneration	
Advances in chemical technologies and materials processing	NMP-FP7-2010-2.4-1 New materials and/or membranes for catalytic reactors	
Rapid transfer and integration of new technologies into the design and operation of manufacturing processes	NMP-FP7-2010-3.4-1 Manufacturing systems for 3D shaped, multilayered products based on flexible materials	
Integration of technologies for industrial applications	NMP-FP7-2010-4.0-1 Development of nanotechnology based systems for detection, diagnosis and therapy for cancer	
	NMP-FP7-2010-4.0-2 NMP-FP7-2010-4.0-2 Capacity building for the development of nanotech-based multi parameter sensors	
	NMP-FP7-2010-4.0-3 High throughput technologies for the development of formulated products	

Note: final dates, budgets and topic contents may change until official publication of the call

4. NMP FP7-NMP-2010-SMALL-4

Publication	30 July 2009
Deadline	8 December 2009
Budget	50 M€

Challenge	Topics	Funding Schemes
Nanotechnologies and Converging technologies	NMP-FP7-2010-1.2-2 Substitution of materials or components utilising "green nanotechnology"	CP (STREP)
	NMP-FP7-2010-1.2-3 Thermoelectric energy converters based on nanotechnology	
Knowledge-based smart Materials with tailored properties	NMP-FP7-2010-2.2-1 Organic-inorganic hybrids for electronics and photonics	
Using engineering to develop high performance knowledge-based materials	NMP-FP7-2010-2.5-1 Modelling of degradation an reliability of crystalline materials	
Development and validation of new industrial models and strategies	NMP-FP7-2010-3.1-1 New industrial models for a sustainable and efficient production	

Note: final dates, budgets and topic contents may change until official publication of the call

4. NMP FP7-NMP-2010-SME-4

Publication	30 July 2009
Deadline	8 December 2009
Budget	20 M€

Activity	Topics	Funding Schemes
Nanotechnologies and converging technologies	NMP-FP7-2010-1.2-1 Novel tools integrating individual techniques for real time nanomaterials characterisation - SME	CP (SME-targeted)
Integration of technologies for industrial applications	NMP-FP7-2010-4.0-4 A new generation of multi-functional fibre-based products produced by new and flexible manufacturing concepts – SME -	

Note: final dates, budgets and topic contents may change until official publication of the call

4.

ENERGY

FP7-ENERGY-2010-1

2-steps

Publication	30 July 2009
Deadline	15th October 2009
Budget	54 M€

AREA	Topics	Funding Schemes
ACTIVITY ENERGY.2: RENEWABLE ELECTRICITY GENERATION		
2.1: PHOTOVOLTAICS	ENERGY.2010.2.1.1: Further development of very thin wafer based c-Si photovoltaics	CP
2.3: WIND	ENERGY.2010.2.3.1: Cross-sectoral approach to the development of very large offshore wind turbines	
2.5: CONCENTRATED SOLAR POWER	ENERGY.2010.2.5.1: Dry-cooling methods for multi-MW sized concentrated solar power plants	
	ENERGY.2010.2.5.2: Main CSP components for high-temperature operation	
ACTIVITY ENERGY.3: RENEWABLE FUEL PRODUCTION		
3.5: ALTERNATIVE ROUTES TO RENEWABLE FUEL PRODUCTION	ENERGY.2010.3.5.1: Liquid or gaseous fuel production using direct biological conversion of solar radiation	CP
ACTIVITY ENERGY.5: CO2 CAPTURE AND STORAGE TECHNOLOGIES FOR ZERO EMISSION POWER GENERATION		
5.1: CO2 CAPTURE	ENERGY.2010.6.1.2: Demonstration of advanced CO2 capture concepts	CP
5.2: CO2 STORAGE	ENERGY.2010.5.2.1: CCS - storage site characterisation	CP
	ENERGY.2010.5.2.2: Trans-national cooperation and networking in the field of geological storage of CO2	CSA-CA
	ENERGY.2010.5.2.3: CCS – site abandonment.	CP
ACTIVITY ENERGY.7: SMART ENERGY NETWORKS		
7.3: CROSS CUTTING ISSUES AND TECHNOLOGIES	ENERGY.2010.7.3.1: Energy storage systems for power distribution networks.	CP
ACTIVITY ENERGY.8: ENERGY EFFICIENCY AND SAVINGS		
8.1: EFFICIENT ENERGY USE IN THE MANUFACTURING INDUSTRY AND BUILDING SECTOR	ENERGY.2010.8.1.1: Valorisation of low temperature heat	CP

Note: final dates, budgets and topic contents may change until official publication of the call

4. ENERGY

FP7-ENERGY-2010-2 (1/2)

Publication	30 July 2009
Deadline	4t March 2010
Budget	135 M€

Activity	Topics	Funding Schemes
ACTIVITY ENERGY.2: RENEWABLE ELECTRICITY GENERATION		
AREA ENERGY.2.3: WIND	ENERGY.2010.2.3.2: Support to the coordination of stakeholders' activities in the field of wind energy	CSA
AREA ENERGY.2.9: CROSS CUTTING ISSUES	ENERGY.2010.2.9.1: Demonstration of innovating multipurpose solar plants	CP (pred. demon. comp.)
ACTIVITY ENERGY.3: RENEWABLE FUEL PRODUCTION		
AREA ENERGY.3.3 NEW ENERGY CROPS	ENERGY.2010.3.3.1: Biofuels from algae	CP
ACTIVITY ENERGY.4: RENEWABLES FOR HEATING AND COOLING		
AREA ENERGY.4.2: BIOMASS	ENERGY.2010.4.2.1: Demonstration of a new generation of boilers and stoves	CP (pred. demon. comp.)
AREA ENERGY.4.5: CROSS CUTTING ISSUES	Topic ENERGY.2010 4.5.1: Support to the coordination of stakeholders' activities in Renewables for Heating and Cooling	CSA - SA
ACTIVITY ENERGY.6: CLEAN COAL TECHNOLOGIES		
AREA ENERGY .6.1: CONVERSION TECHNOLOGIES FOR ZERO EMISSION POWER GENERATION	ENERGY.2010.6.1.1: Efficiency Improvement of Oxygen-based combustion	CP

Note: final dates, budgets and topic contents may change until official publication of the call

4. ENERGY

FP7-ENERGY-2010-2 (2/2)



Activity / Area	Topics	Funding schemes
ACTIVITY ENERGY.5&6: CROSS-CUTTING ACTIONS BETWEEN ACTIVITIES ENERGY.5 AND ENERGY.6		
AREA ENERGY.5&6.1: POWER GENERATION TECHNOLOGIES FOR INTEGRATED ZERO EMISSION SOLUTIONS	ENERGY.2010.5&6.1.1: Feasibility and engineering study for development of an integrated solution for a large scale zero emission fossil fuel power plant	CP
AREA ENERGY.5&6.2: CROSS CUTTING AND REGULATORY ISSUES	ENERGY.2010.5&6.2.1: Extending the value chain for GHG emissions other than CO2	
ACTIVITY ENERGY.7: SMART ENERGY NETWORKS		
AREA ENERGY.7.1: DEVELOPMENT OF INTER-ACTIVE DISTRIBUTION ENERGY NETWORKS	ENERGY.2010.7.1.1: Large scale demonstration of smart distribution networks with distributed generation and active customer participation	CP (pred. demon. comp.)
ACTIVITY ENERGY.8: ENERGY EFFICIENCY AND SAVINGS		
AREA ENERGY.8.1: EFFICIENT ENERGY USE IN THE MANUFACTURING INDUSTRY AND BUILDING SECTOR	ENERGY.2010.8.1.2 Energy Efficiency in Construction	CP (pred. demon. comp.)

Note: final dates, budgets and topic contents may change until official publication of the call

4. ENVIRONMENT

FP7-ENV-2010 (1/5)

Publication	30 July 2009
Deadline	5 January 2010
Budget	213 M€

ACTIVITY/ AREA	TOPICS CALLED	FUNDING SCHEMES
ACTIVITY 6.1. CLIMATE CHANGE, POLLUTION AND RISKS		
Sub-activity 6.1.1. Pressures on environment and climate (EUR 32.5 million)		
1.1.2.	ENV.2010.1.1.2.1. Atmospheric chemistry and climate change interactions	CP (IP)
	ENV.2010.1.1.2.2. Networking activities on atmospheric composition and climate change for research collaboration and policy making	CSA
1.1.3.	ENV.2010.1.1.3.1. Changes in CO ₂ and CH ₄ uptake and emissions by oceans in a changing climate	CP (IP)
1.1.4.	ENV.2010.1.1.4.1. Underpinning work to enable provision of local scale climate information (annual to decadal timescales)	CP (STREP)
1.1.5.	ENV.2010.1.1.5.1. Impact of ocean acidification in the Mediterranean in a changing climate	CP (STREP)
1.1.6.	ENV.2010.1.1.6.1. Climate change mitigation options linked to deforestation and agriculture in the context of a post-2012 international agreement on climate change	CP (STREP)
	ENV.2010.1.1.6.2. Explore climate policy scenarios for developing countries and/or emerging economies	CSA
	ENV.2010.1.1.6.3. Quantifying the costs of mitigating climate change by means of activities involving joint climate and economic modelling	CP (STREP)
Sub-activity 6.1.2. Environment and Health (EUR 16 million)		
1.2.1.	ENV.2010.1.2.1.1. The effect of environmental change on the occurrence and distribution of water related vector-borne diseases in Africa	CP (STREP) (SICA)
1.2.2.	ENV.2010.1.2.2.1. Indoor air pollution and health risks of modern office buildings	CP (STREP)
	ENV.2010.1.2.2.2. Human health and environmental effects of exposure to pharmaceuticals released into the environment	CP (STREP)
1.2.3.	ENV.2010.1.2.3.1. Exposure models to assess the risks to operators, workers, residents and bystanders from exposure to plant protection products (PPPs)	CP (STREP)
	ENV.2010.1.2.3.2. Greenhouse gas emission reduction policies and their impacts on public health and welfare in urban areas	CP (STREP) (SICA)

4. ENVIRONMENT

FP7-ENV-2010 (2/5)



ACTIVITY	TOPICS CALLED	FUNDING SCHEMES
Sub-activity 6.1.3. Natural hazards (EUR 11.5 million)		
1.3.2.	ENV.2010.1.3.2.1. Building a culture of risk prevention in Europe	CP (STREP)
1.3.3.	ENV.2010.1.3.3.1. Early warning and forecasting systems to predict climate related drought vulnerability and risks in Africa	CP (STREP)(SICA)
1.3.4.	ENV.2010.1.3.4.1. New methodologies for multi-hazard and multi-risk assessment	CP (STREP)
	ENV.2010.1.3.4.2. Social science research, natural hazards and decision making process	CSA - CA
ACTIVITY 6.2. SUSTAINABLE MANAGEMENT OF RESOURCES		
Sub-activity 6.2.1. Conservation and sustainable management of natural and man-made resources and biodiversity (EUR 32 million)		
2.1.1.	ENV.2010.2.1.1.1. Integrated management of water and other natural resources in Africa	CP (STREP) (SICA)
	ENV.2010.2.1.1.2 Integrated resource management based on land and land-use management	CP - IP
2.1.2.	ENV.2010.2.1.2.1 Evaluation of effectiveness of economic instruments in integrated water policy	CP (STREP)
2.1.4.	ENV.2010.2.1.4.1 Functional significance of forest biodiversity	CP - IP
	ENV.2010.2.1.4.3 Developing a European scientific biodiversity Network to inform policy-making and economic actors	CSA - CA
	ENV.2010.2.1.4.4 Increasing the understanding of the role of soil biodiversity in ecosystem functioning	CP - IP
2.1.5.	ENV.2010.2.1.5.1 Assessing vulnerability of urban systems, populations and goods in relation to natural and man-made disasters in Africa	CP (STREP) (SICA)
Sub-activity 6.2.2. Management of marine environments (EUR 19 million)		
2.2.1.	ENV.2010.2.2.1.1. North Atlantic Ocean and associated shelf-seas protection and management options – collaboration with US & Canada	CP - IP
	ENV.2010.2.2.1.2. Global plankton data set building in view of modelling	CP (STREP) (SICA)
	ENV.2010.2.2.1.3. Coordination actions to support FP6 NoEs durable integration	CSA - CA

4. ENVIRONMENT

FP7-ENV-2010 (3/5)



ACTIVITY	TOPICS CALLED	FUNDING SCHEMES
ACTIVITY 6.3. ENVIRONMENTAL TECHNOLOGIES		
Sub-activity 6.3.1. Environmental technologies for observation, simulation, prevention, mitigation, adaptation, remediation and restoration of the natural and man-made environment (EUR 51.5 million)		
3.1.1.	ENV.2010.3.1.1.1 Technologies and systems for urban water cycle services	CP - IP
	ENV.2010.3.1.1.2 Innovative system solutions for municipal sludge treatment and management	CP (STREP)
	ENV.2010.3.1.1.3 Decentralised water supply and sanitation technologies and systems for small communities and per-urban areas	CP (STREP)
3.1.3.	ENV.2010.3.1.3.1 Innovative technologies and eco design recommendations for reuse and recycling of Construction and Demolition (C&D) waste, with a special focus on technologies for onsite solutions	CP (STREP)
	ENV.2010.3.1.3.2 Innovative technologies and system solutions for municipal solid waste management in densely populated cities	CP (STREP)
3.1.4.	ENV.2010.3.1.4.1 Integrated Pollution Prevention and Control of industrial emissions in the Mediterranean region	CSA – CA
3.1.5.	ENV.2010.3.1.5.1 Resource efficient and urban friendly construction sites	CP (STREP)
	ENV.2010.3.1.5.2 Environmental technologies for brownfield regeneration	CP (STREP)
3.1.7	ENV.2010.3.1.7.1 Technologies for automated monitoring of air pollution in cities	CSA - SA
3.1.8.	ENV.2010.3.1.8.1 Development of technologies for long-term carbon sequestration	CP (STREP)

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4. ENVIRONMENT

FP7-ENV-2010 (4/5)



ACTIVITY	TOPICS CALLED	FUNDING SCHEMES
Sub-activity 6.3.2. Protection, conservation and enhancement of cultural heritage, including human habitat (EUR 8.5 million)		
3.2.1.	ENV.2010.3.2.1.1 Non-destructive diagnosis technologies for the safe conservation of movable cultural assets	CP (STREP) Targeted for SMEs
3.2.4.	ENV.2010.3.2.4.1 Compatible solutions for improving the energy efficiency of historic buildings in urban areas (Coordinated call on Energy Efficient Buildings – Economic Recovery Plan)	CP - IP
Sub-activity 6.3.3. Technology assessment, verification and testing (EUR 4.5 million)		
3.3.1.	ENV.2010.3.3.1.1 Reduction of the use of animals in eco-toxicological safety testing	CSA - CA
3.3.2.	ENV.2010.3.3.2.1 Boosting Life Cycle Assessment use in SMEs: development of sectorial methods and tools	CP (STREP)
ACTIVITY 6.4. EARTH OBSERVATION AND ASSESSMENT TOOLS FOR SUSTAINABLE DEVELOPMENT		
Sub-activity 6.4.1. Earth and ocean observation systems and monitoring methods for the environment and sustainable development (EUR 17 million)		
4.1.1.	ENV.2010.4.1.1.1 Supporting the integration of European and international R&D programmes in GEO	CSA - CA
4.1.2.	ENV.2010.4.1.2.1 Building observational datasets for the predictability of global atmospheric, oceanic and terrestrial processes using reanalysis techniques	CP (STREP)
	ENV.2010.4.1.2.2 Integrating new data visualisation approaches of earth Systems into GEOSS development	CP (STREP)
4.1.3.	ENV.2010.4.1.3.1 Exploring GNSS (global navigation satellite systems) applications for Global Environmental Earth Observation and GEOSS (Global Earth Observation Systems of Systems)	CSA - CA
	ENV.2010.4.1.3.2 Global Observation Systems for Mercury	CP – IP (SICA)
4.1.4.	ENV.2010.4.1.4.1 Identification and Networking of EO activities in the Balkan area	CSA -CA

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4. ENVIRONMENT

FP7-ENV-2010 (5/5)



ACTIVITY	TOPICS CALLED	FUNDING SCHEMES
Sub-activity 6.4.2. Forecasting methods and assessment tools for sustainable development taking into account different scales of observation (EUR 16.5 million)		
4.2.1.	ENV.2010.4.2.1.1 Enhancing model integration for the assessment of global environmental change	CP (STREP)
4.2.2.	ENV.2010.4.2.2.1 Development of integrated economic and environmental accounts	CP (STREP)
	ENV.2010.4.2.3.2 Producing a shared vision on how to harness R&D to sustainability	CSA – CA
	ENV.2010.4.2.3.3 Brokerage activities to promote sustainable consumption and production patterns	CP (STREP)

Note: final dates, budgets and topic contents may change until official publication of the call

4.

ENVIRONMENT

FP7-AFRICA-2010

Publication

30 July 2009

Deadline

14 January 2010

Budget

63 M€

ACTIVITY	TOPICS CALLED	FUNDING SCHEMES
Theme 6: ENVIRONMENT (INCLUDING CLIMATE CHANGE)		
Activity 6.1 Climate Change, pollution and risks	ENV.2010.1.2.1-1: The effect of environmental change on the occurrence and distribution of water related vector-borne diseases in Africa.	CP (STREP) (SICA)
	ENV.2010.1.3.3-1: Early warning and forecasting systems to predict climate related drought vulnerability and risks in Africa.	
Activity 6.2 Sustainable management of resources	ENV.2010.2.1.1-1: Integrated management of water and natural resources in Africa.	
Activity 6.3 Environmental technologies	ENV.2010.3.1.1-3: Decentralised water supply and sanitation technologies and systems for small communities and peri-urban areas.	
Activity 6.3 Environmental technologies	ENV.2010.3.1.1-4: Water harvesting technologies in Africa.	

Note: final dates, budgets and topic contents may change until official publication of the call

4.

TRANSPORT

FP7-AAT-2010-RTD-1

Publication

30 July 2009

Deadline

14 January 2010

Budget

101 M€

Challenge	Topics		Funding Schemes
7.1.1.1. Green Aircraft	AAT.2010.1.1.1. Flight physics AAT.2010.1.1.2. Aerostructures AAT.2010.1.1.3 Propulsion	AAT.2010.1.1.4. Systems and equipment AAT.2010.1.1.5. Avionics	CP, CSA (Coord.)
7.1.1.2. Ecological Production and Maintenance	AAT.2010.1.2.1. Production	AAT.2010.1.2.2. Maintenance and disposal	
7.1.1.3. Green Air Transport Operations	AAT.2010.1.3.1. Flight profiles AAT.2010.1.3.2. Airports	AAT.2010.1.3.3. Design systems and tools - Understanding interactions between air transport, environment and society	
7.1.2.2. Time Efficient Air Trans. Ops	AAT.2010.2.2.2. Airports		
7.1.3.1. Passenger Friendly Cabin	AAT.2010.3.1.2. Noise and vibration		
7.1.3.3. Aircraft Safety	AAT.2010.3.3.1. Aerostructures AAT.2010.3.3.2. Systems and equipment	AAT.2010.3.3.3 Avionics	
7.1.3.4. Operational Safety	AAT.2010.3.4.1. Design systems and tools		
7.1.4.1. Aircraft Development Cost	AAT.2010.4.1.1. Design systems and tools AAT.2010.4.1.2. Aerostructures	AAT.2010.4.1.3. Systems and equipment AAT.2010.4.1.4. Avionics AAT.2010.4.1.5. Production	
7.1.4.2. Aircraft Operational Cost	AAT.2010.4.2.1. Flight Physics AAT.2010.4.2.2. Aerostructures	AAT.2010.4.2.3. Propulsion AAT.2010.4.2.4. Systems AAT.2010.4.2.5. Avionics	
7.1.4.3. Air Transport System Op. Cost	AAT.2010.4.3.4. Human factors		
7.1.6.1. Breakthrough Technologies	AAT.2010.6.1.1. Lift AAT.2010.6.1.2. Propulsion	AAT.2010.6.1.3. Interior space AAT.2010.6.1.4. Life-cycle	
7.1.6.2. Step Changes in Air Transp.	AAT.2010.6.2.1. Novel air transport vehicles	AAT.2010.6.2.2. Guidance and control AAT.2010.6.2.3. Airports	
7.1.6.3. Promising Pioneering Ideas in Air Transport	AAT.2010.6.3.1 The cruiser/feeder concept AAT.2010.6.3.2 Take-off and landing with ground-based power	AAT.2010.6.3.3 Personal air transport system AAT.2010.6.3.4 New sources of aircraft main propulsive power	
Several support actions			

4. TRANSPORT

FP7-SST-2010-RTD-1 (1/2)

Publication	30 July 2009
Deadline	14 January 2010
Budget	94 M€

Activity / Area	Topics called	Funding Schemes
7. 2. 1. THE GREENING OF SURFACE TRANSPORT		
7.2.1.1. The greening of products and operations	SST.2010.1.1.1. Carbon footprint of freight transport	CP (STREP)
	SST.2010.1.1.2. Attenuation of ground-borne vibration affecting residents near railway lines	
	SST.2010.1.1.3. Energy efficiency of ships	
	SST.2010.1.1.4. Advanced after treatment solutions for mitigation of emissions from ships	
7.2.2 ENCOURAGING MODAL SHIFT AND DECONGESTING TRANSPORT CORRIDORS		
7.2.2.1 Logistics and intermodal transport	SST.2010.2.1.1. Fast implementation of innovative/effective rail technologies to improve rail freight services	CP (STREP)
	SST.2010.2.1.2. Efficient interfaces between transport modes	
7.2.4. IMPROVING SAFETY AND SECURITY		
7.2.4.1 Integrated safety and security for surface transport systems	SST.2010.4.1.1 Safety and security by design in transport stations and terminals	CP (STREP)
	SST.2010.4.1.2. Minimizing the risk of fatigue failure of railway axles	
7.2.5. STRENGTHENING COMPETITIVENESS		
7.2.5.1 Competitive industrial processes	SST.2010.5.1.1. Improved through-life asset management through application of advanced production, retrofit and dismantling processes	CP (STREP)

Note: final dates, budgets and topic contents may change until official publication of the call

4. TRANSPORT

FP7-SST-2010-RTD-1 (2/2)



Activity / Area	Topics called	Funding Schemes
7.2.5.2 Competitive surface transport products and services	SST.2010.5.2.1. Automated and cost effective railway infrastructure maintenance	CP (STREP)
	SST.2010.5.2.2. The sustainable freight railway: Designing the freight vehicle – track system for higher delivered tonnage with improved availability at reduced cost	CP (IP)
	SST.2010.5.2.3. Step changes in rail freight logistics: new technologies and methods to increase freight competitiveness in the emerging low density, high value market	CP (STREP)
	SST.2010.5.2.4. Competitive continental shipping including port operations	CP (IP)
7.2.6. CROSS-CUTTING ACTIVITIES for implementation of the sub-theme programme		
	SST.2010.6.1. Towards improved technology transfers	CSA

Note: final dates, budgets and topic contents may change until official publication of the call

4. TRANSPORT

FP7-TRANSPORT-2010-TREN-1

Publication	30 July 2009
Deadline	14 January 2010
Budget	35 M€

Activity/ Area	Topics called	Funding Schemes
7.1. AERONAUTICS AND AIR TRANSPORT		
7.1.7. CROSS-CUTTING ACTIVITIES FOR IMPLEMENTATION OF THE SUB-THEME PROGRAMME		
	AAT.2010.7.17. Socio-economic incentives and barriers to innovation in air transport	CSA (supporting)
7.2. SUSTAINABLE SURFACE TRANSPORT		
ACTIVITY 7. 2. 1. THE GREENING OF SURFACE TRANSPORT		
7.2.1.3. Socio-economic issues	SST.2010.1.3.1. Transport modelling for policy impact assessments	CSA (supporting)
	SST.2010.1.3.2. Social and economic impacts of transport policy	CSA (supporting)
7.2.2. ENCOURAGING MODAL SHIFT AND DECONGESTING TRANSPORT CORRIDORS		
7.2.2.1 Logistics and intermodal transport	SST.2010.2.1.3. Development and promotion of best practice in freight logistics	CSA (coordinating)
	SST.2010.2.1.4. Demonstration project for the rail freight network	CP
7.2.5. STRENGTHENING COMPETITIVENESS		
7.2.5.2 Competitive surface transport products and services	SST.2010.5.2.5. Upgraded maritime transport information management	CP
7.2.6. CROSS-CUTTING ACTIVITIES FOR IMPLEMENTATION OF THE SUB-THEME PROGRAMME		
	SST.2010.6.2. Maritime industry knowledge network	CP

Note: final dates, budgets and topic contents may change until official publication of the call

4.

JOINT CALL

KBBE, ENERGY, ENV, TRANSPORT, SSH

FP7-OCEAN-2010

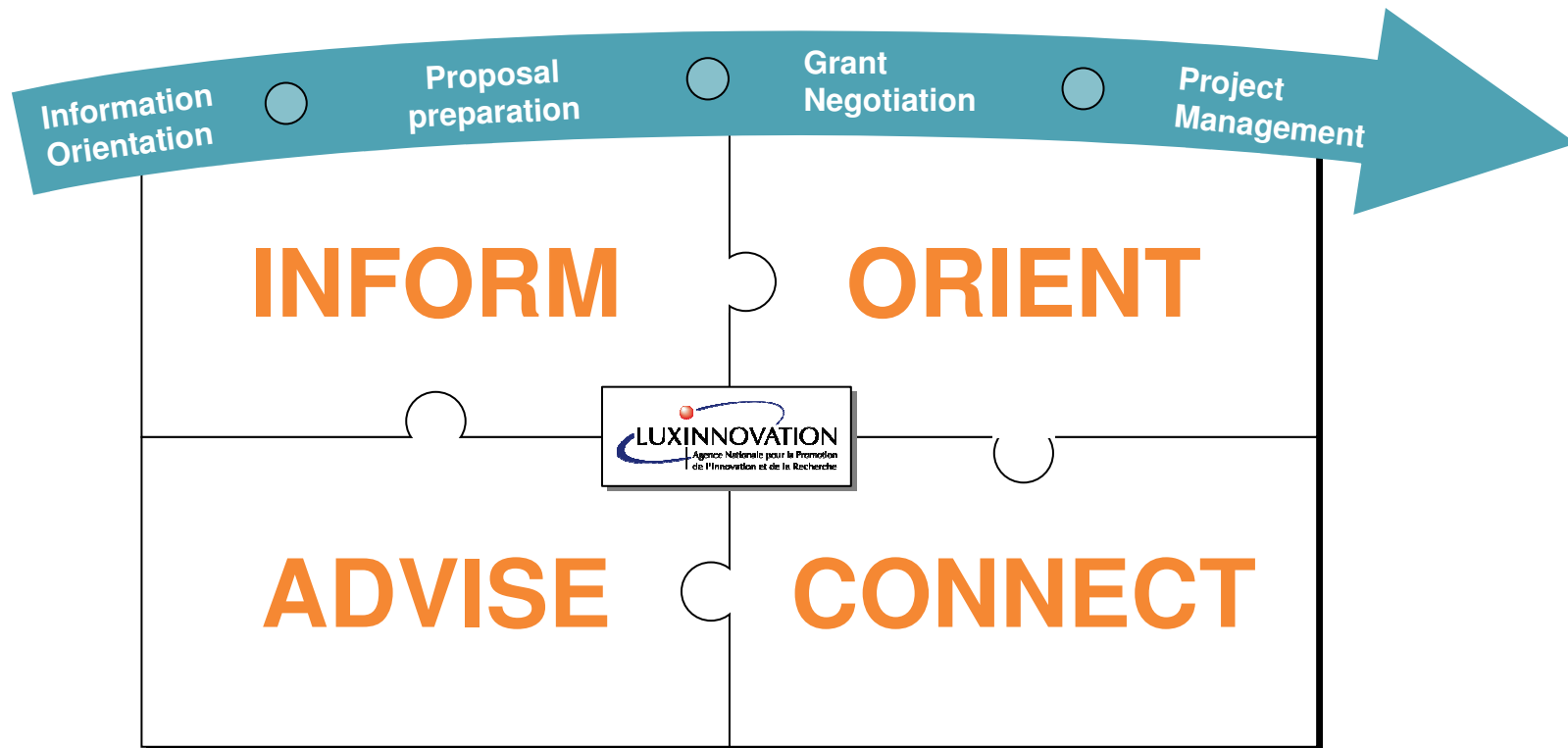
Publication	30 July 2009
Deadline	14 January 2009
Budget	34 M€

Activity	Topics	Funding Schemes
ACTIVITY ENERGY (6 M€)		
ENERGY.2010.activity.area01	Quantification of climate change impacts on economic sectors in the Arctic	CP - IP
ENERGY.2010.activity.area.02	Vectors of changes in ocean and seas marine life, impact on economic sectors	CP - IP
ENERGY.2010.activity.area.03	Sub-seabed carbon storage and the marine environment	CP - IP
ACTIVITY ENV 2 : SUSTAINABLE MANAGEMENT OF RESOURCES (10,5 M€)		
ENV.2010.2.2.2.1	Quantification of climate change impacts on economic sectors in the Arctic	CP - IP
ENV.2010.2.2.2.2	Vectors of changes in ocean and seas marine life, impact on economic sectors	CP - IP
ENV.2010.2.2.2.3	Sub-seabed carbon storage and the marine environment	CP - IP
ACTIVITY TRANSPORT (7,5 M€)		
SST - 2010 activity-area-01	Quantification of climate change impacts on economic sectors in the Arctic	CP - IP
SST – 2010-activity-area-02	Vectors of changes in ocean and seas marine life, impact on economic sectors	CP - IP
SST - 2010 activity-area-03	Sub-seabed carbon storage and the marine environment	CP - IP

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4.

Large service offering related to funding programmes





Thank you for your attention!



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