



The three Research PPPs : Implementation in 2009-2010

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Research PPPs Info-Day, 13 July 2009





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Recovery Plan

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

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Research activities

“Factories of the future” PPP initiative

- 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

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FoF - Expected results

- ✓ **Sustainable Manufacturing:**
Quiet, clean and safe green production machines
- ✓ **Intelligent Manufacturing:**
Intelligent machines capable of interacting with operators, self-monitoring and self-correct smart production lines
- ✓ **High performance manufacturing:**
Towards zero-defects, lean and adaptive manufacturing processes
- ✓ **Manufacturing processes handling new materials:**
Light-weight/high-functionality using new materials and micro/nano manufacturing ('portable factory')



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Research activities

“Energy-efficient buildings” PPP initiative

- 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

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EeB - Expected results

- ✓ **Monitoring tools:**
Rapid on-site measurement of actual performances
- ✓ **The building envelope:**
Highly efficient and smart windows
- ✓ **Systems and equipments:**
Integrated PV solutions and ICT for energy efficiency
- ✓ **Environmental technologies:**
Retrofitting of historic buildings
- ✓ **Standardisation:** Pre-normative research, standards
- ✓ **Demonstration:** Integration of innovative technologies

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Research activities

“Green cars” PPP initiative

- 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 fossil 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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GC - Expected results

- ✓ **Electrification of road & urban transport:**
Efficient components and their integration within vehicles, along with vehicle-to-grid interfaces
- ✓ **Energy efficiency for heavy-duty vehicles:**
Particular focus on internal combustion engines and rolling resistance
- ✓ **Logistics & co-modality:**
Optimisation of global transport systems and traffic flows

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Double approach

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

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Indicative PPP contributions

FP7 research budget (2010-2013)

Budgets (M€)	NMP	INFSO	TRANS-PORT	ENERGY	ENV	TOTAL FP7	TOTAL PPP
Factories of the future	400	200 +45				600 +45	1,200
Energy-efficient Buildings	250	100 +5		125	25	500 +5	1,000
Green Cars	60	120	220	50	50	500	1,000
TOTAL	710	420 +50	220	175	75	1,600 +50	3,200

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For industry: Why a PPP ? (compared to business as usual)

- 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

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Dialogue and coordination

- Meetings between High-level Industrial representatives of the 3 PPP initiatives and RTD Director General Silva Rodriguez have taken place:
 - Factories of the future initiative: *21 January 2009*
 - European energy efficient buildings initiative: *17 February 2009*
 - European green cars initiative: *5 March 2009*
- Commissioner Potočnik met with the 3 PPPs on *30 March 2009*
- The Commission Interservice group on “ Research implementation of the recovery package” has been created: SG, SJ, RTD, INFSO, TREN, ENTR, ENV, ADMIN & BUDG are represented and two meetings have taken place
- Three Ad Hoc Industrial Advisory Groups have been created:
 - Industrial input for WP2010 and preparation of a multi-annual roadmap

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PPP Calls in WP 2010

Main elements

- **Quick response needed:** use of existing FP7 instruments
- **Involvement of industry** in the preparation
- **Open to all** proposers according to **normal FP7 rules**
- **Industrial partners** provide added value
- **Coordinated & Joint** Calls for Proposals
- **Complementary topics** and harmonised evaluation
- **Collaborative** projects and **Coordination** actions
- **Single stage** evaluation to **reduce time** to contract
- **Specific PPP Annex** to the WP for higher visibility

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Budget Contributions 2010

Budgets (M€)	NMP	INFSO	TRANS- PORT	ENERGY	ENV	TOTAL 2010
Factories of the future	60	35				95
Energy- efficient Buildings	30	15		15	5	65
Green Cars	10	20	68	5	5	108
TOTAL	100	70	68	20	10	268

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Tentative call dates in WP 2010

	Tentative Launch	Tentative Closing
Factories of the Future	30 July 2009	3 November 2009
Energy-efficient Buildings	30 July 2009	3 November 2009
Green Cars	30 July 2009	3 November 2009 14 January 2010

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Eligibility in FP7

- Meeting the deadline
- Completeness of Parts A and B of the proposal
- Minimum participation for both Collaborative Projects & Coordination Actions:
 - At least 3 independent legal entities, each of which is established in a Member State or Associated Country and no two of which are established in the same Member State or Associated Country
- In scope of the Call and topic
- Funding limits (in some topics)

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Maximum Funding Rates

- Research and technological activities:
 - up to 50% of eligible costs, except for
 - Public bodies: up to 75%
 - Secondary and higher education centres: up to 75%
 - Research organisations (non-profit): up to 75%
 - SMEs: up to 75%
- Demonstration activities: up to 50%
- Other activities: up to 100%, e.g. Management
- Coordination and support actions: up to 100%

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Call Topics WP 2010 Factories of the Future PPP

- **Coordinated Call**
- **Deadline for all topics: 3 November 2009**
- 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 – Collaborative Projects & CSA - ICT

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Call Topics WP 2010

Energy-efficient Buildings PPP

- **Coordinated Call**
- **Deadline for all topics: 3 November 2009**
- 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 – Collaborative Projects & CSA - ICT
- Compatible solutions for improving the energy efficiency of historic buildings in urban areas - ENV
- Demonstration of energy efficiency through retrofitting of buildings - ENERGY

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Call Topics WP 2010 Green Cars PPP

- **Joint Call between NMP, Transport, Energy & ENV**
- **Deadline 14 January 2010**
- Materials, technologies and processes for sustainable automotive electrochemical storage applications

- **Coordinated Call – ICT Topics**
- **Deadline 3 November 2009**
- ICT for the Fully Electric Vehicle – Collaborative Projects and CSA

- **Coordinated Call – Transport Topic (DG TREN)**
- **Deadline 14 January 2010**
- Integrated EU demonstration project on electromobility

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Call Topics WP 2010 Green Cars PPP

- **Coordinated Call – Transport Topics (DG RTD)**
- **Deadline 14 January 2010**
 - Electrical machines
 - Integrated electric auxiliaries and on-board system
 - Optimised thermal engine development and integration
 - Smart storage integration
 - Advanced electric vehicle concepts
 - Implementing PPP in the European Green Cars Initiative – CSA
 - Raising awareness of potential job opportunities related to the electrification of road transport – CSA

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Call Documents

- WP 2010 :
 - Sections for the Themes (NMP, ICT, Transp., Env., Energy)
 - Annex 5 – PPP information collected together for high visibility
- Call Fiches
- Guides for Applicants
- EPSS Electronic Proposal Submission System
- All are available to download from the relevant CORDIS Call page <http://cordis.europa.eu/fp7/dc/index.cfm>

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Single-stage evaluation

- Harmonised submission and evaluation across all Themes
- Proposals are evaluated on the basis of the following 3 criteria:

Criterion	Minimum threshold
S/T quality	3/5
Implementation	3/5
Impact	3/5
Overall	10/15



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Indicative Evaluation and Negotiation timetable

- **Deadlines** **3 Nov 2009** **14 Jan 2010**
- **Evaluation**
- Remote phase: December 2009 January 2010
- Consensus phase: December 2009 February 2010
- Evaluation results: January 2010 March 2010
- **Negotiations**
- Launch of negotiations: Jan-Feb 2010 April 2010
- First contracts begin: May 2010 July 2010

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Other Calls for Proposals in WP 2010 (July 30th)

- All the Themes involved in the PPPs will also be publishing their Calls for Proposals on other areas and activities that could be of interest to you



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Main information events

- Cross-thematic Calls with high visibility in FP7
- Info-days planned for the PPPs
 - 13 JUL 2009
 - Factories of the Future PPP
 - Energy-efficient Buildings PPP
 - Green Cars PPP
 - 28-29 SEP 2009
 - Only Green Cars PPP

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Further information ...

FP7 Research Themes and Call information
cordis.europa.eu

Information on the Research PPPs
ec.europa.eu/research/industrial_technologies/

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Afternoon parallel sessions

- 13.00 – 16.30 : Separate sessions for each PPP
 - Detailed information on the Call topics (with Q & A)
 - Brokerage event (with short presentations of ideas)

Rooms	FoF	EeB	GC
After lunch	Lord Jenkins – Sicco Mansholt	Alcide De Gasperi	Borschette Building
After coffee	Alcide De Gasperi	Lord Jenkins – Sicco Mansholt	Borschette Building



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Thank you for your attention

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