



# **The Three Research PPPs in the Recovery Plan Focus on “energy saving in buildings”**

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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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# Recovery Plan

## 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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# Recovery Plan

## 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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# Recovery Plan

## 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 (RES) 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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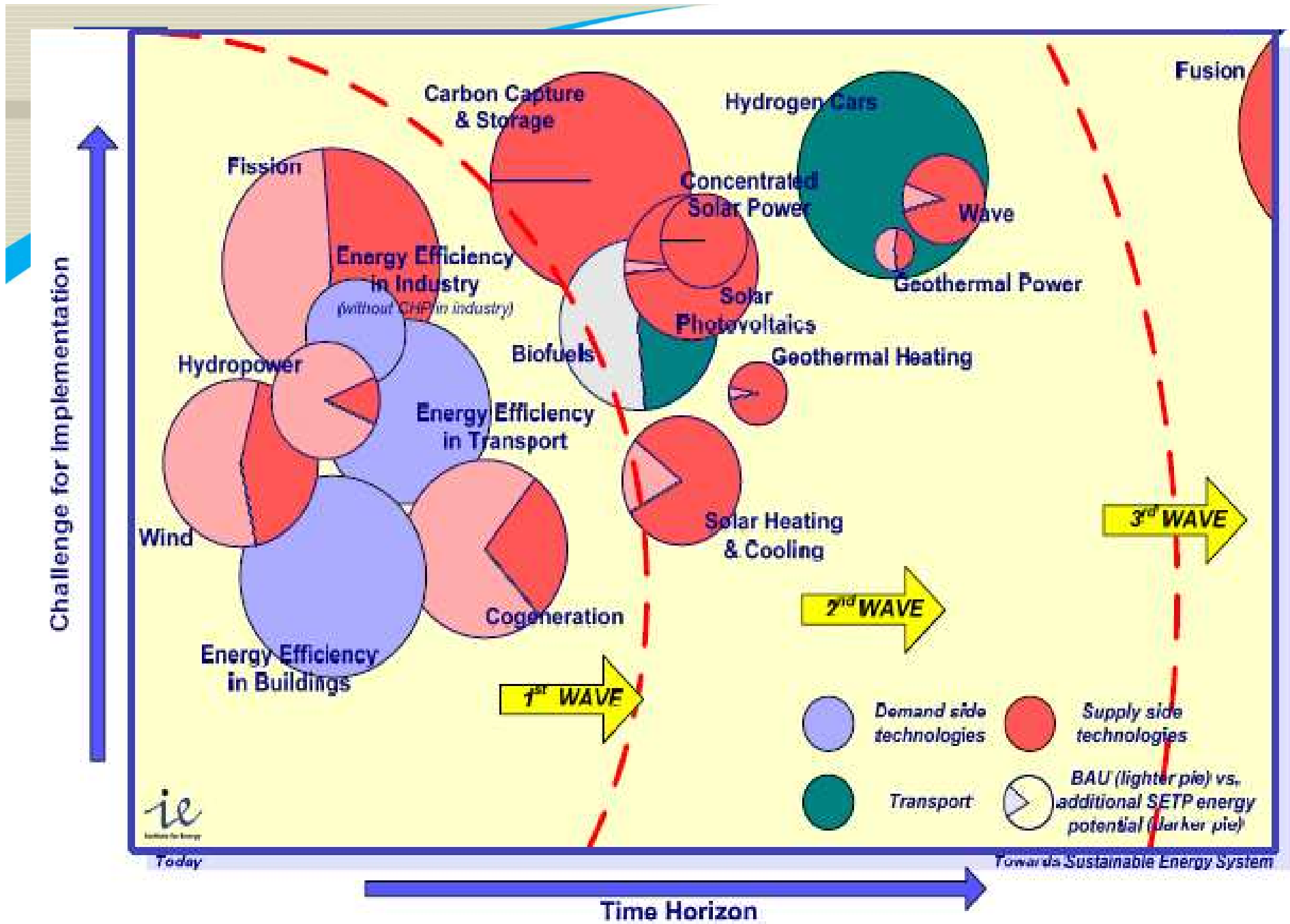
# Public-Private Partnerships

## 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€)	TRANSPORT	NMP	ENERGY	INFISO	ENV	TOTAL FP7	TOTAL PPP
Green Car	220	60	50	120	50	500	1,000
Energy efficient buildings		250	125	100	25	500	1,000
Factories of the future		400		200		600	1,200

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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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# Public-Private Partnerships

## 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 & 13 July*
- The Commission Interservice group on " Research implementation of the recovery package" has been created: SG, SJ, RTD, INFSO, TREN, ENTR, ENV, ADMIN & BUDG
- Three Ad Hoc Industrial Advisory Groups have been created:
  - Industrial input for WP2010 and preparation of a multi-annual roadmap until end of FP7

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# PPP Calls in WP 2010

## Main elements

- **Quick response needed:** use of existing FP7 instruments
- **Involvement of industry** through advisory ad hoc group
- **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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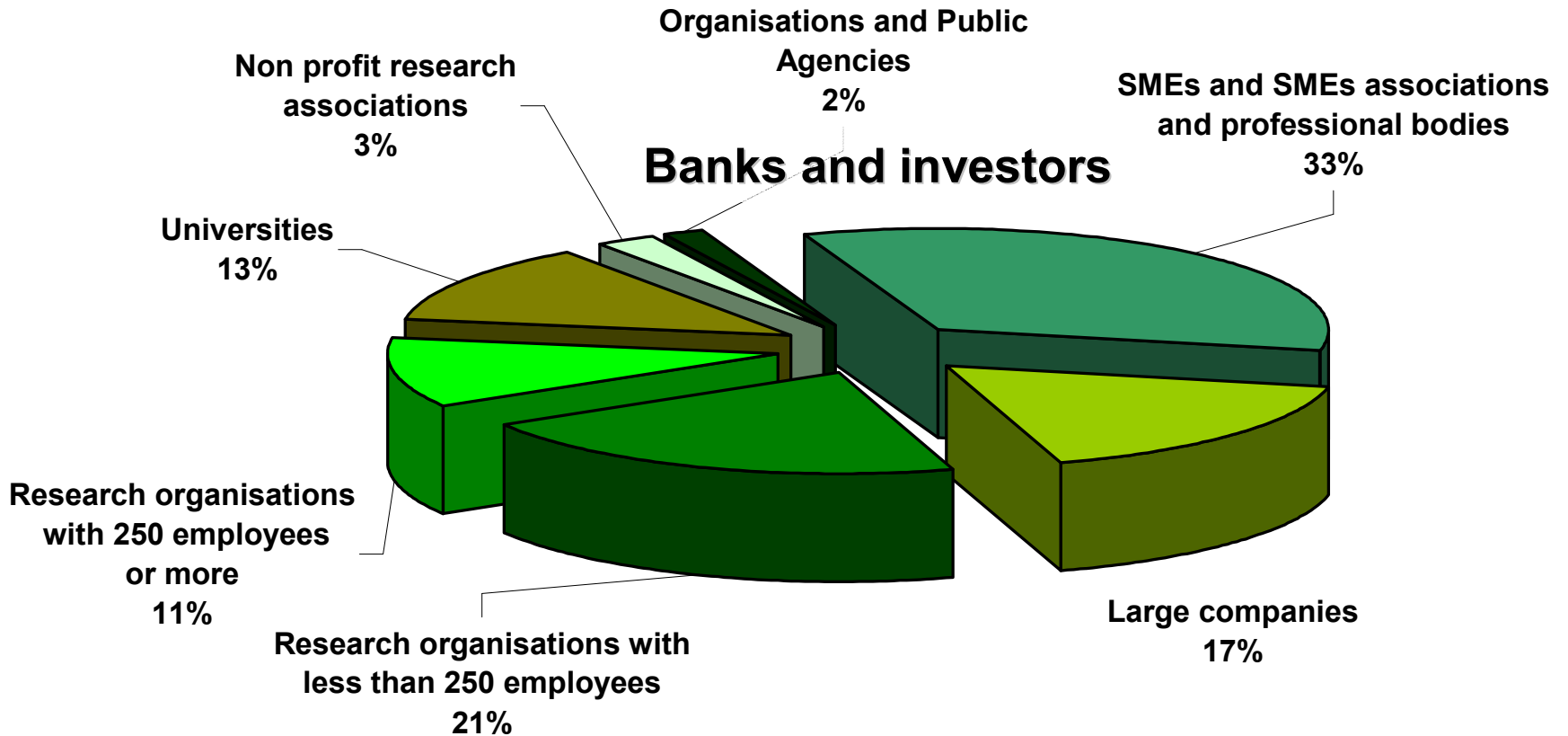


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## E2BA as industry lead platform

**Over 130 members** have joined the Association. Almost 50% increase since the beginning.



**MOSTOSTAL, ITB, ASM, CIM-MES PROJEKT, SKA POLSKA,  
ZACISZE**





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# Public-Private Partnerships

## Budget Contributions 2010

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

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# Public-Private Partnerships

## Tentative call dates in WP 2010

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

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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

## Energy-efficient Buildings PPP

- **Coordinated Call (59)**
- **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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# Proposed future EeB priorities

- **Envelope for existing buildings**
- **Systems and equipments for energy use for existing buildings**
- **Interaction integration between buildings , grid, heat network**
- **Systems and equipments for energy use generic**
- **Knowledge transfer**
- **Relationship between user and energy**
- **Retrofitting at district level**
- **Envelope and components**
- **Design integration of new solutions**
- **Systemic approach for new and old buildings**
- **Energy management systems**
- **Labelling and standardization**

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# Further information ...

***FP7 Research Themes and Call information***  
[cordis.europa.eu](http://cordis.europa.eu)

***Information on the Research PPPs***  
[ec.europa.eu/research/industrial\\_technologies/](http://ec.europa.eu/research/industrial_technologies/)

<http://www.e2b-ei.eu>





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# Thank you for your attention

