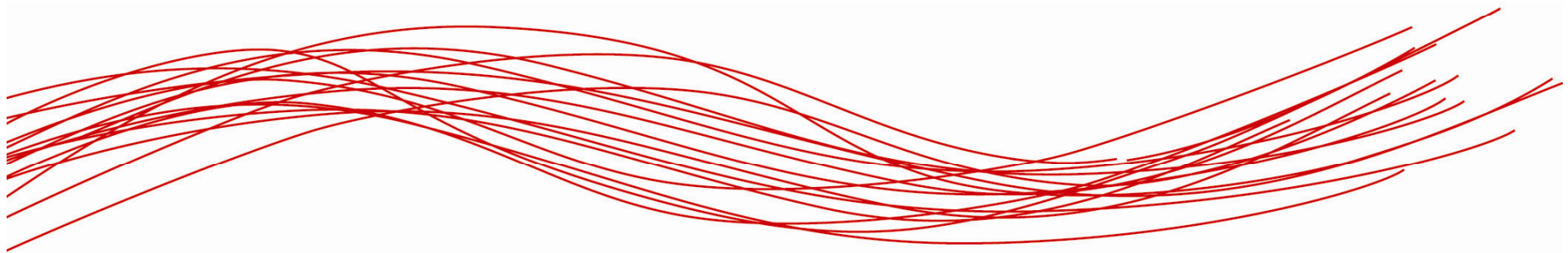


Future Opportunities for Construction Research and Innovation in Europe



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Disclaimer: This presentation is not legally binding and does not represent any commitment on behalf of the European Commission

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EUROPE 2020

- **Strategy for smart, sustainable and inclusive growth:**
 - Innovation, Competitiveness, Green & Social aspects
- **Focus on facing the Grand Challenges:** Ageing, Energy ...
- **3% for R&D** and **20/20/20 climate targets** should be met
- Among 7 **flagship initiatives**, the NMP area has a strategic role in Innovation Union, Resource-efficient Europe and Industrial policy
- **Innovation Partnerships** as a forum to foster innovation
- **Support to PPPs** as a tool to combine public and private funding
- **Acting efficiently together** as in the Recovery Plan

Energy-efficient Buildings PPP

Construction sector (€ 1 billion in 4 years)

- 10% of the EU's GDP and 32 million jobs before the crisis
- Building activity dropped by 8% in 2009 and declines further
- 40% of energy use and 33% of GHG emissions in Europe
- Themes: NMP, ENERGY, ICT, ENVIRONMENT



Advantages of a PPP

- **Industry has a leading role** in defining research priorities
- **Ad-hoc Industrial Advisory Group** advises on implementation
- **Multi-annual Roadmap** allows long-term investment plans
- **Pre-defined budget** ensures continuity
- More emphasis on **relevance of industry** and **impact**
- Focused on **enabling industrial technologies**
- Increased use of **SME-friendly** instruments and **demonstration**

Special features in the PPP calls

- **Involvement of industry** in the preparation
- **Industrial partners** provide added value
- **High share of industrial experts** in the evaluation
- **Single stage** evaluation to **reduce time** to contract
- **Coordinated & Joint** Calls for Proposals
- **Specific PPP Annex** to the WP for higher visibility

Open to ALL stakeholders according to normal FP7 rules

Results of first EeB Calls

	July 2009	July 2010
• Success rate:	28%	20%
	17 funded of 60	24 funded of 120
• Share by Org. Type:		
- Higher Education:	18%	15%
- Private for Profit:	48%	53%
- Research Org.:	26%	24%
• Share of Funding of SMEs:	24%	30%
• Countries of funded partners:	24	26

Construction in NMP

Industrial input

- The ECTP and the industrial advisory group of the EeB PPP give the main input to the NMP strategy for the construction sector
- Construction related topics have provided good coverage of the Strategic Research Agenda of the ECTP and the EeB roadmap
- Other Industrial roadmaps and national implementation plans are also taken into account

Construction in NMP

Topics in FP7 (outside EeB)

- 1st call: - Resource efficient and clean buildings
 - Innovative added-value construction product-services
- 2nd call: - Smart materials for applications in the sectors of construction and of machinery and production equipment
- 3rd call: - Reducing the environmental footprint of energy intensive industries
- 4th call: - Advanced underground technologies for intelligent mining and for inspection, maintenance and excavation

Common Strategic Framework for EU Research & Innovation

- Covering FP, CIP and EIT in a Common Strategic Framework
- With a coherent set of funding instruments along the whole innovation chain (from basic research to market uptake)
- Far reaching simplification of procedures and rules

Response to the **Green paper** seeking the views of all stakeholders on the priorities and proposed improvements:

- ETPs are generally seen as a valuable tool
- Efforts must be made to simplify the complex structures of the existing JTIs, for example through the broad application of PPPs like those that emerged under the Recovery Plan

Horizon 2020

- Based on **Europe 2020** and the Innovation Union
- Seamless integration of **Research and Innovation**
- Proposed amount: **€ 80 billion** for 2014-2020
- **46% increase** compared to 2007-2013
- Commission proposals for Horizon 2020: by **end of 2011**

Objectives and structure:

- Excellence in the science base
- Strengthening competitiveness
- Tackling societal challenges

1- Excellent science base

World class excellence; developing and attracting talent

- European Research Council
- Future and emerging technologies
- Marie Curie actions on skills, training and career development
- Research infrastructures

2- Industrial leadership and competitive frameworks

Business led R&I; raising private investment

- Enabling and industrial technologies (ICT, nanotechnology, materials, biotechnology, manufacturing, space)
- Access to risk finance (loans, equity)
- Support for innovation in SMEs

3- Tackling societal challenges

Responding directly to EU objectives; whole cycle from research to market

- Health, demographic change & wellbeing
- Food security, sustainable agriculture & bio-based economy
- Secure, clean & efficient energy
- Smart, green and integrated transport
- Climate action and resource efficiency including raw materials
- Inclusive, innovative and secure societies



Horizon 2020 – Simplification

- **Single set of rules** for eligibility, accounting, reporting, auditing ...
- **Simplified cost-reimbursement** approach
- Broader acceptance of **usual accounting practice**, greater use of **lump sums** and **flat rates**
- **Shorter negotiation** and **selection** phases
- **Unique IT portal**, common support structures, guidance
- **External management**: learning from experience with financial instruments, public-private partnerships, public-public partnerships, executive agencies

Next steps

- **Commission proposals** for Horizon 2020: **before end 2011**
- **FP7 Work Programmes 2013**, bridge towards Horizon 2020
- **Negotiations on EU budget** for 2014-2020
- **Legislative decisions** on Horizon 2020 by the Council and the European Parliament (2012-13)
- **Horizon 2020**: from 2014

EeB longer-term outlook

- **Continued dialogue under FP7** via the Advisory Groups
- **New articles related to PPPs** in the Commission proposal for revision of the **Financial Regulation**
- **Horizon 2020 Sub-group on PPPs “Ideal House”** works on:
 - The implementation models for research PPPs
 - The specific criteria to justify the creation of a PPP
 - Definition of the role and commitment of the PPP partners
 - Governance and implementation issues

EeB Implementation for 2012

Calls on the three PPPs in WP 2012:

- Cross-thematic approach for each PPP
- Single-stage evaluation
- **Publication: 20 July 2011**
- **Deadline: 1 December 2011**

Indicative Evaluation and Negotiation timetable:

Evaluation: January 2012

Launch of Negotiations: February-March 2012

First projects begin: June 2012

Public-Private Partnerships

Calls of July 2011 - Budget Contributions 2012

(M€)	Green Car	Energy efficient Buildings	Factories of the future	Total
NMP	20	70	100	190
ICT	30	30	60	120
ENERGY		35		35
ENVIRONMENT	5	5		10
TRANSPORT	63			63
Total 2012	118	140	160	418



Call Topics WP 2012

Energy-efficient Buildings PPP

- **Cross-thematic Call** **EC funding: 140 M€**
- 6 topics from NMP: 2L+1SME+2S+1CSA
- 1 topic from ENV: SME
- 1 topic from ENER: CP-SoU
- 1 topic from ICT: STREP
- Areas covered include: integration between buildings and grids; systemic approach for retrofiting; new processes and business models for EeB; HVAC systems; smart windows; knowledge transfer; energy efficiency of historic buildings; demonstration of renovation; and ICT for energy-positive neighbourhoods

Further information ...

FP7 Research Themes and Call information
cordis.europa.eu

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

