R&D in the CONSTRUCTION SECTOR at EUROPEAN LEVEL

4th European Construction Technology Platform Conference
Brussels Nov. 24-25, 2009

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CONTENT

ACHIEMENTS

FUTURE STEPS
The ERA has become a key component of the Lisbon Strategy for transforming Europe into the world’s most competitive and sustainable knowledge-based economy.

Since 2004, the ECTP has been contributed successfully by:

Joining forces to establish the European Research Area (ERA) and to step up the co-ordination of Construction research activities carried out at National and European level.
ERA CONSTRUCTION
CORE ELEMENTS

Research

Education

Growth & Jobs

Innovation

FP7 (NMP/ICT/ENV/ENERGY/TRANSPORT/PPP EeB…),
CIP, SET-PLAN, SMART CITIES, LMI, ETAP …

Eurekabuild
COST
NATIONAL
R&D

JPI…

NATIONAL

Era-netTransport

NATIONAL/REGIONAL

EU
ERA-NETs in FP6-7 related to Construction

ERA-NET on national programmes in the field of construction and operation of buildings
ERA-NETs in FP6-7 related to Construction

- 2004-2007
  - 6 joint calls in ERABUILD: ICT, Industrialization, RFID, BIM-IFC, Sustainable Renovation, Performance Indicators
  - Significant and increasing budgets made available for transnational research projects (> 5 M€ national money)

- 2008-2011
  - 22 countries, 35 partners
  - 2 trans-national programs
    - Value Driven Process: 1st call closed (6 countries)
    - SusRen: 1st call in a few weeks (~10 countries)
Main results:
- 13 Eureka projects generated
- 10 workshops organized
- 22,4 millions investment in R&D projects
- 17 countries participating in R&D projects

Background (2/3):
- 19 Member States
  - Austria
  - Belgium
  - Czech Rep.
  - Denmark
  - Norway
  - Greece
  - Sweden
  - Poland
  - Lithuania
  - Switzerland
  - Iceland
- 38 entities supported the initiative
Examples of Actions within TUD (Transport and Urban Development)

- C22 Urban Flood Management (→ Nov 09)
- C24 Analysis & Design of Innovative Systems for Low-EXergy in the Built Environment: COSTeXergy (→ Nov 10)
- C25 Sustainability of Constructions: Integrated Approach to Life-time Structural Engineering (→ Dec 10)
- C26 Urban Habitat Constructions under Catastrophic Events (→ June 10)
- TU0601 Robustness of Structures (→ April 11)
- TU0701 Improving the Quality of Suburban Buildings Stock (→ March 12)
- TU0901 Integrating & Harmonizing Sound Insulation Aspects in Sustainable Urban Housing Constructions (→ May 13)

Enhancing co-ordination of national R&D programmes & policies, Overcoming fragmentation and creating an “internal market” for research, constitutes central axes of the ERA concept
2007
• Resource efficient and clean buildings
• Innovative added-value construction product-services

2008
• Industrialization through new integrated construction processes
• Innovative concepts and processes for strategic mineral supply and for new high added value mineral-based products
• Smart materials for applications in the sectors of construction and of machinery and production equipment

2009
• Reducing environmental footprint of energy intensive industries

FP7-2010-NMP-ENV-ENERGY-ICT-EeB
• New nanotechnology based high performance insulation systems for energy efficiency
• New technologies for energy efficiency at district level
## Indicative PPP contributions

### EeB FP7 research budget (2010-2013)

<table>
<thead>
<tr>
<th>Budgets (M€)</th>
<th>NMP</th>
<th>ENERGY</th>
<th>INFSO</th>
<th>ENV</th>
<th>TOTAL FP7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2010</strong></td>
<td>30</td>
<td>15</td>
<td>15</td>
<td>5</td>
<td>65</td>
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<tr>
<td><strong>2011</strong></td>
<td>40</td>
<td>20</td>
<td>15</td>
<td>5</td>
<td>80</td>
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<tr>
<td><strong>2012</strong></td>
<td>70</td>
<td>35</td>
<td>30</td>
<td>5</td>
<td>140</td>
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<tr>
<td><strong>2013</strong></td>
<td>110</td>
<td>55</td>
<td>45</td>
<td>10</td>
<td>220</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>250</td>
<td>125</td>
<td>105</td>
<td>25</td>
<td>505</td>
</tr>
</tbody>
</table>

Budgets are not fixed
FP7 Methodology

Work Programme builds upon many inputs

- EU policies
- Strategic Research Agendas of European Technology Platforms
- Foresight studies, continuity/complementarity with FP6/FP7 portfolio, input from stakeholders
- RECOVERY PLAN: AIAGs of the PPPs

Proposal for a multi annual implementation plan

Programme Committee

Next call for proposals

~9-12 Months

FEEDBACK

Advisory Group
FUTURE STEPS

- Continuing to implement ERA in Framework Programmes (in NMP and in other Themes), implement the PPP EeB
- Helping to shape Work Programme revisions and increasing synergies with ETPs SRA
- Identify the potential need/possibilities for increased cooperation (Including International)
- Strengthening the role of NTPs within the MS in coordination with ECTP
Thank you for your attention.

Further information ...

**FP7 Research Themes and Call information**
cordis.europa.eu

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

**ERA**
ec.europa.eu/research/era

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