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R&D in the CONSTRUCTION SECTOR at EUROPEAN LEVEL



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



in Collaboration with:



Christophe LESNIAK RTD-G.2



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CONTENT

 **ACHIEVEMENTS**

 **FUTURE STEPS**



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ERA CONSTRUCTION

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 :

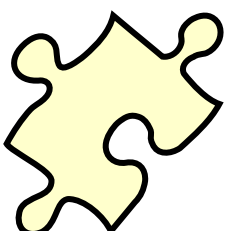
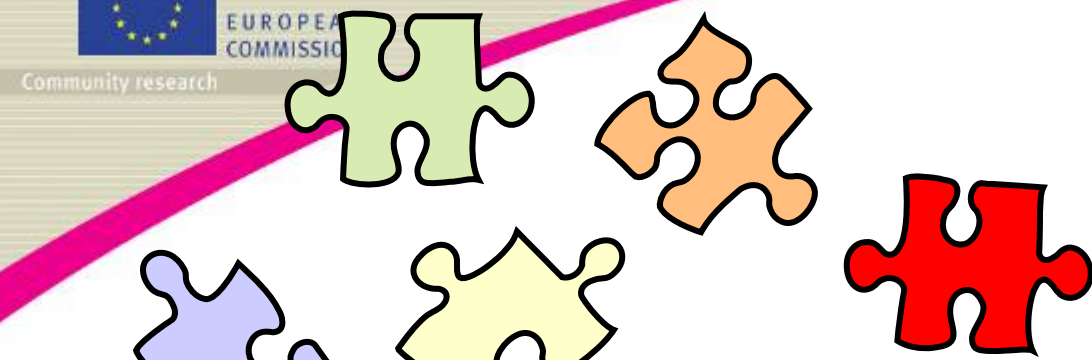
Joining forces to establish the European Research Area (ERA) and to step up the co-ordination of Construction research activities carried out at National and European level.



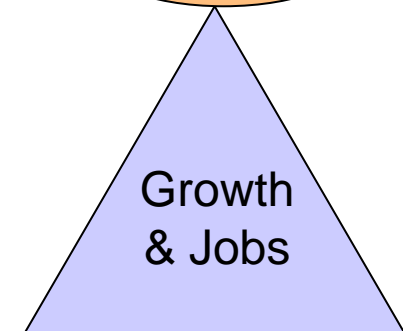
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ERA CONSTRUCTION CORE ELEMENTS



Research



Education

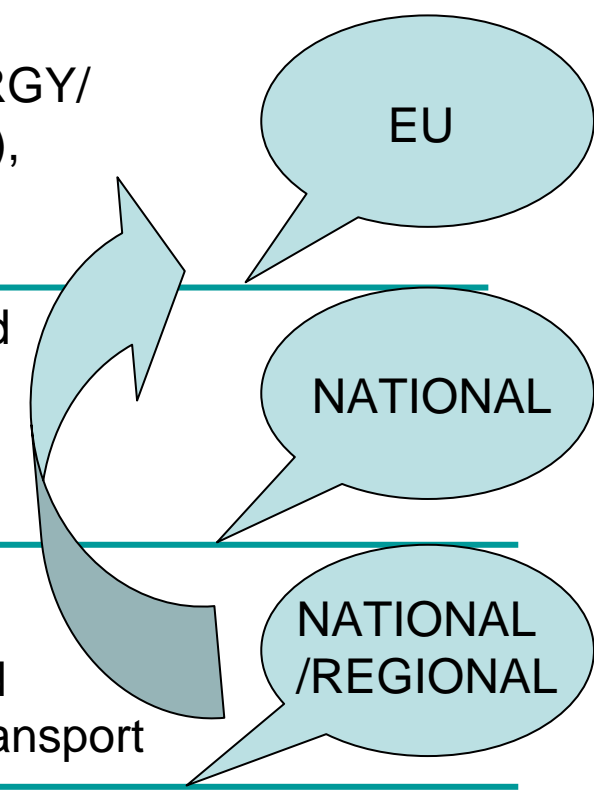
Innovation

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

NATIONAL
R&D

EurekaBuild
COST
JPI...

Eracobuild
Net-Heritage
Era-net Road
Era-netTransport





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ERA-NETs in FP6-7 related to Construction



*ERA-NET on national programmes in the field of
construction and operation of buildings*



road **ERA** net



ERA-NETs in FP6-7 related to Construction



Community research

■ 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)





E!3790



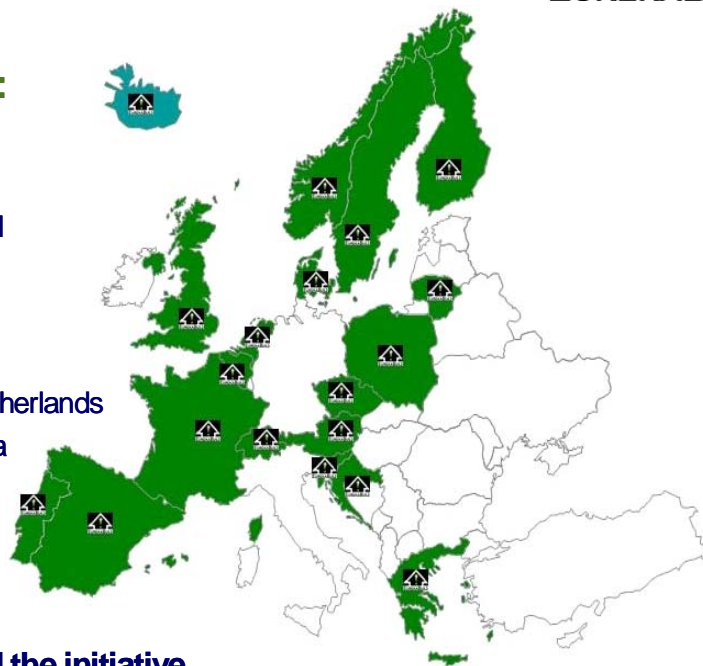
EUREKA UMBRELLA PROJECT:
Technologies for a Sustainable and
Competitive Construction Sector

■ Background (2/3):

● 19 Member States

- Austria
- Belgium
- Czech Rep.
- Denmark
- Norway
- Greece
- Sweden
- Poland
- Lithuania
- Switzerland
- Iceland
- Finland
- Portugal
- France
- Croatia
- U.K.
- The Netherlands
- Slovenia
- Spain

● 38 entities supported the initiative



● Main results:

- 13 Eureka projects generated
- 10 workshops organized
- 22,4 millions investment in R&D projects
- 17 countries participating in R&D projects

**EUREKA BOTTOM UP APPROACH
CONSOLIDATING THE ERA**



■ **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)
- ✚ TU0802 Next Generation Cost Effective PCMs for Increased Energy Efficiency in Renewable Energy Systems in Buildings (NeCoE-PCM) (→ Nov 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



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FP7 NMP



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)

Budgets (M€)	NMP	ENERGY	INFSO	ENV	TOTAL FP7
2010	30	15	15	5	65
2011	40	20	15	5	80
2012	70	35	30	5	140
2013	110	55	45	10	220
TOTAL	250	125	105	25	505

Budgets are not fixed



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LONG TERM ERA STRATEGY

% achievement SRA

Monitoring follow-up, new initiatives TFI?

Implementation IAP



Vision & SRA

ECTP start Maastricht

Initial commitment

2004

2005-2006

2007

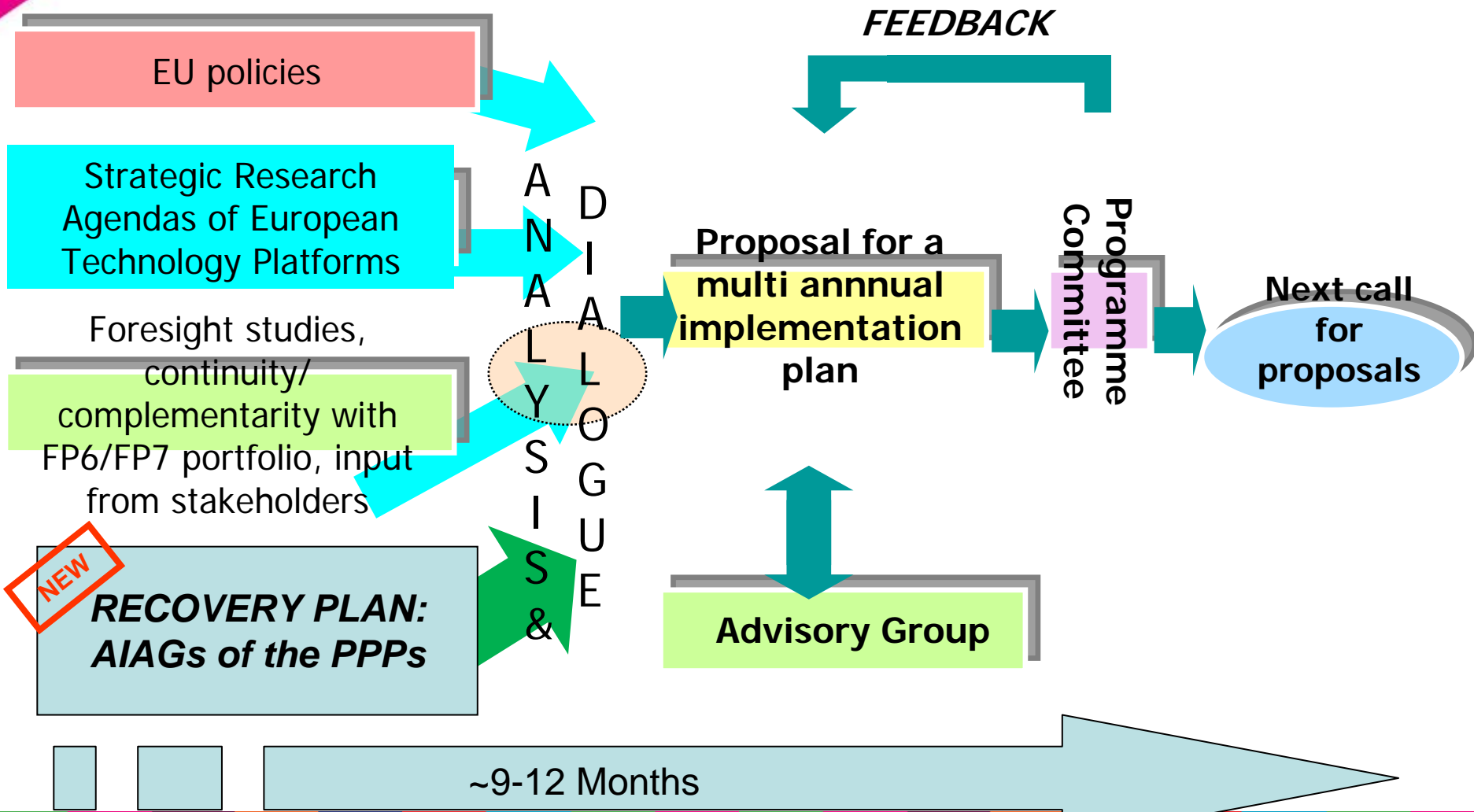
2008-2013





FP7 Methodology

Work Programme builds upon many inputs





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



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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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