ENERGY EFFICIENT BUILDINGS cPPP

From Framework Programme 7 to Horizon 2020

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CONSTRUCTION: KEY NUMBERS

• EU’s Economy: 9.6 % of GDP
• EU’s industrial employment: more than 30 %

• EU’s energy consumption: 40 %
• EU’s Greenhouse gas emissions: 36 %

• New buildings: only 1 to 2 % a year

• Quality of life: more than 90% indoor life !
• **Demonstrators:** 242 demonstrators located in 24 countries – including non EU states (Norway, Switzerland and Taiwan). Countries with the highest number of demonstrators were Spain (42), Italy (24) and Germany (18)

• EeB PPP is a “**PIONEER**” as projects are often already at high “Technology Readiness Levels” (TRL), at demonstration stage.

*Data courtesy of ARUP*
IMPACT ASSESSMENT EeB PPP (part)

• Energy use reduction: 39 %

• CO2 emission reduction: 4 million tons / year

• Concerned built area:
  • Renovated: 781.000 m²
  • New: 683.000 m²

• Impact projections for next five years available
IMPACT ASSESSMENT EeB PPP *(partial)*

- **Citizens’ engagement:** 70,000 citizens (for a total of 15,300 dwellings)

- **Other structures:** 22 schools and universities; 2 sports institutions; two airports; one subway station...

- **Dissemination and Training:**
  - Dissemination: est. 4.9 million individuals reached
  - Training: 8,900 individuals trained
IMPACT ASSESSMENT EeB PPP (part)

- **Investment and return on investment (ROI):**
  - Investment from project partners: est. 429 million €
  - ROI: average 5-10 years

- **SMEs participation:** 132 SMEs (= 30% of partners)

- **Technology and patents:**
  - Technology: est. 286 new technologies to market
  - Patents: expected 124 new technologies to patent
Key Research Areas 2014-2020

• **Renovation**: deeper; cost effective; innovative

• **Connected and Interactive Buildings**: smart districts

• **Energy Performance**: monitoring and optimizing throughout active life of the building
360° COLLABORATION

- Other PPPs and JTIs
- Set Plan integrated roadmap
- Smart Cities and Communities EIP
- Key Enabling Technologies (KET) High Level Group
- ….

- EU’s Cohesion Policy: European Competitiveness Investment Fund (ECIP) (= former EDRF)
CONCLUSIONS

• **New vision:** not FP8 but HORIZON 2020: a new vision to turn into reality together

• **Commitment** of all partners

• Turning the construction sector into a **knowledge based sustainable business**
  » Renovation rate to speed up
  » More skilled forces
  » Contribute to CO2 reduction objectives
  » Improve quality of life of citizens
Thank you for your attention

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