



E2B: A European Industrial Initiative on Energy Efficient Buildings and Districts

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Where is the built environment?



- Buildings use 40 % of total EU energy consumption
- The built environment generates 1/3 of GHG in Europe
- Even new buildings are far from being all energy efficient
- Replacement rate is very small (1 to 2 % per year)
- The renovation of the existing stock is a real challenge
- Many experiments are made but actual impacts are limited

Business as usual is not an option!

Industry mobilisation and engagement ...



Within the framework of ECTP, E2BA was established to **engage into a long term partnership with EC**, aiming at:

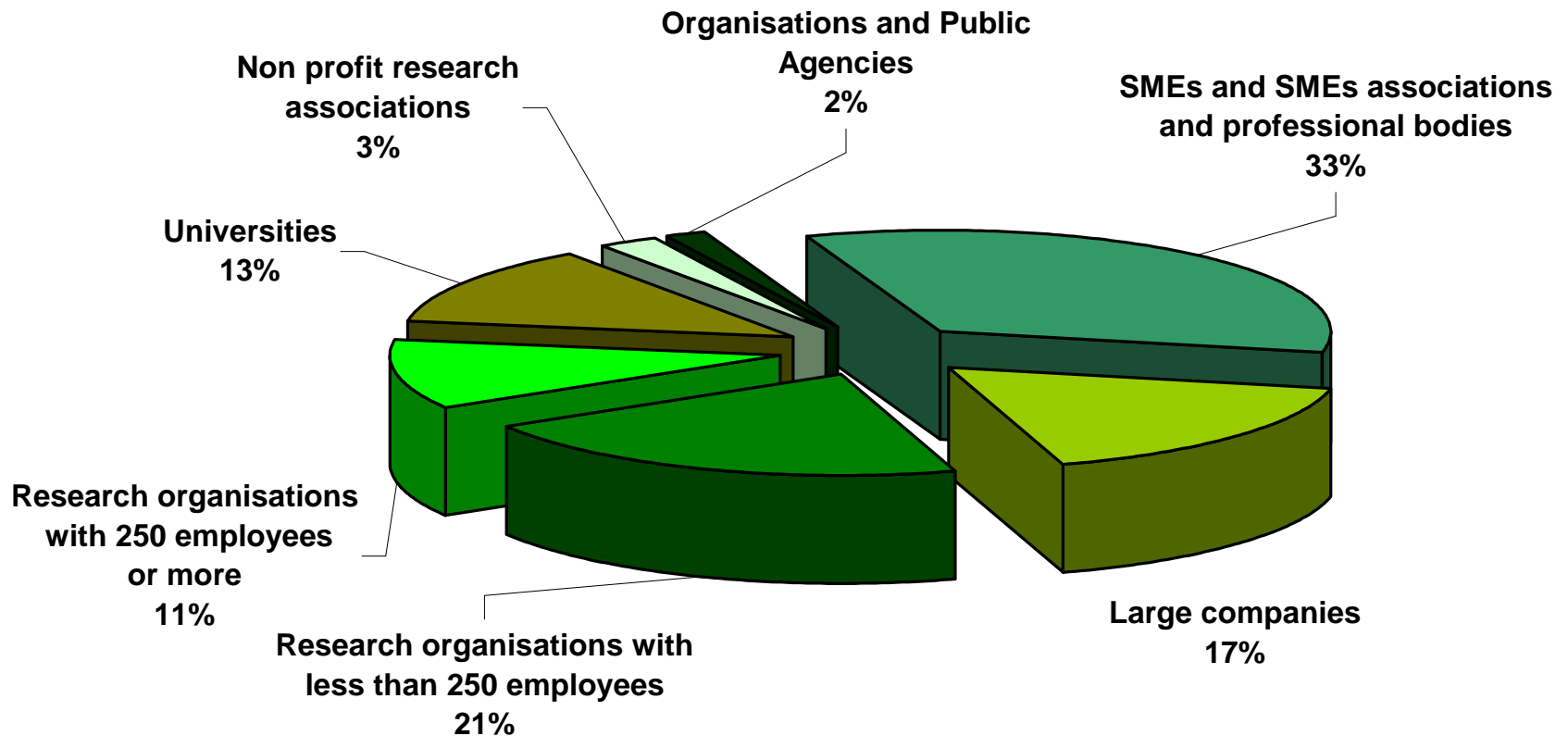
- Seeking and demonstrating industry engagement
- Coordinating research interests towards Public stakeholders
- Keeping close links with international initiatives
- Liaising with national/regional initiatives



... in the full innovation chain



160 members have joined the Association.



Public-Private Partnerships

Double approach



Involvement of industry, including SMEs, in the planning and implementation

Quick response needed: use of **existing instruments**

- **7th Framework Programme**
- **Multi-annual Roadmaps until 2013** developed by industry in the framework of the **Ad-hoc Industrial Advisory Groups**

Double approach for implementation :

- Fast start with **cross-thematic** calls for proposals under FP7
- In parallel, exploration of **strategy and options** for longer term

The industry vision and long term strategy (1/2)



Trends and scenarios
Industry objectives and vision
Strategic targets (Recovery Plan, SET plan, ...)

Key pillars:

- **Systemic approach (Globally optimised, locally designed)**
- **District potential**
- **Geoclusters**

energy needs

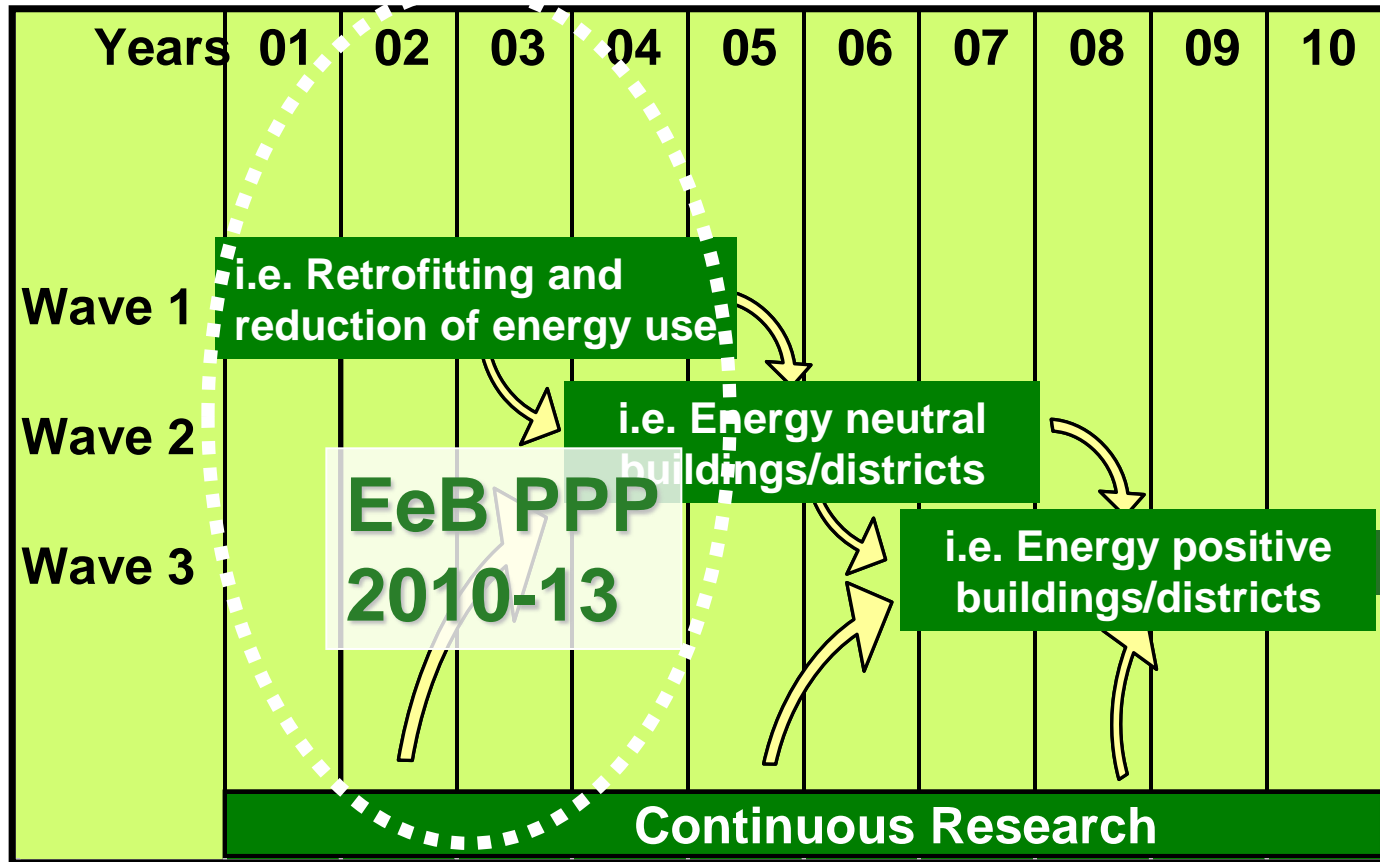
STEP 1 Reducing the energy consumption of buildings and its negative impacts on environment (main goal within the PPP EeB 2010-2013)

The built environment today

The industry vision and long term strategy (2/2)



EeB PPP as first wave of a Long Term Strategy



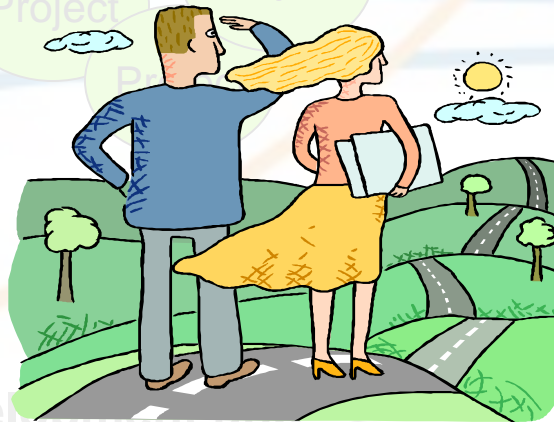
Fostering an ambitious long term R&I Programme (2/2)



project changes/
directions

**Aligning EU and local roadmaps,
funding tools, public procurements
and contracting practices, ...**

Concepts/
Screening/Innovative



**Anticipating education/training needs,
new standards, IPR strategies,**

Front End > Development > Deployment throughout

The road



ENERGY-EFFICIENT BUILDINGS PPP MULTI-ANNUAL ROADMAP AND LONGER TERM STRATEGY

Prepared by the Ad-hoc Industrial Advisory Group

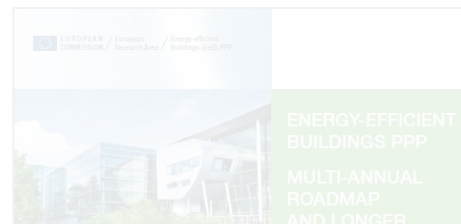


SRAs Analysis
• SRAs and Implementation
been analyzed



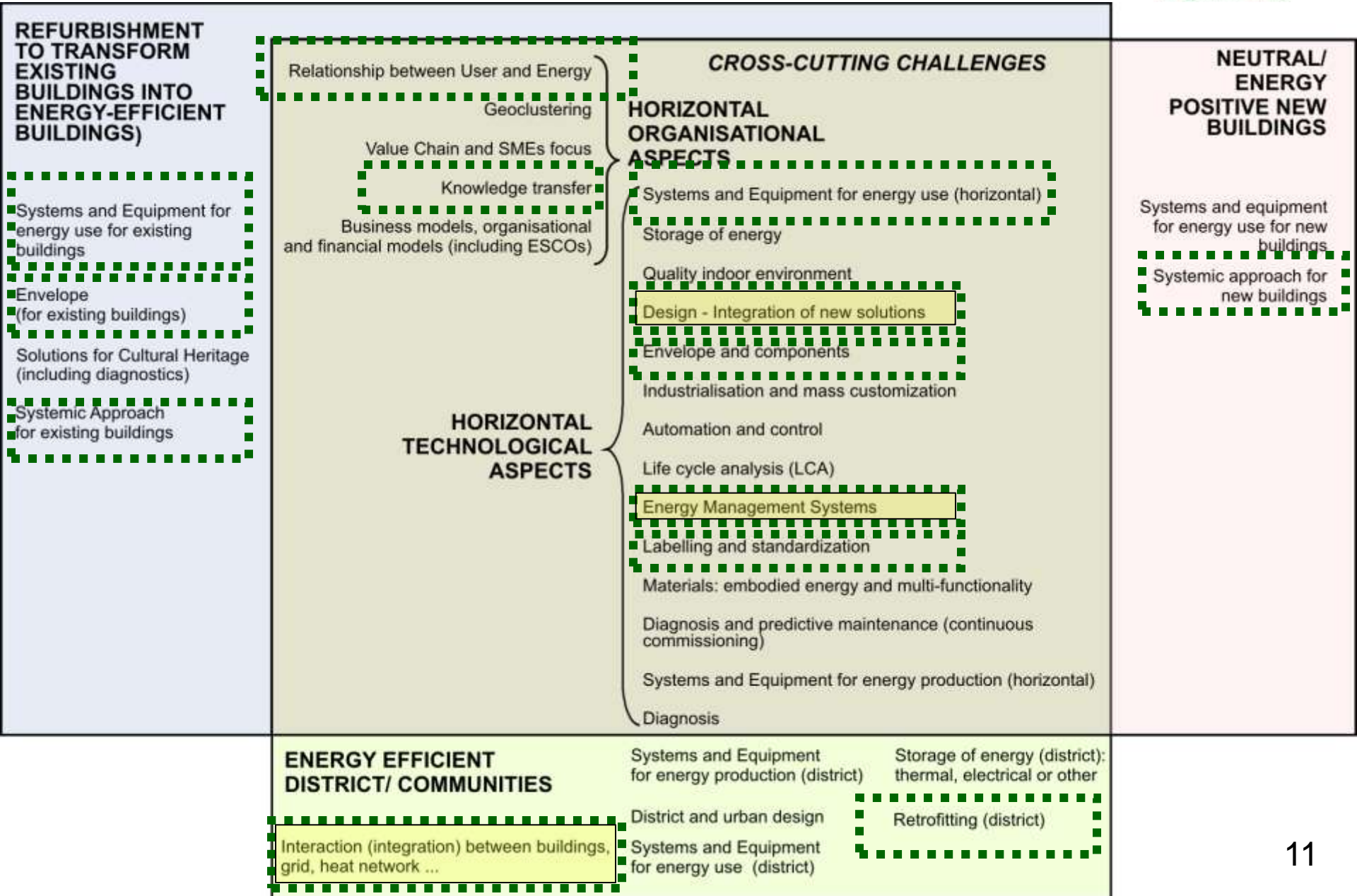
Inputs from Stakeholders (c

search Priorities



5.0 DEFINITION OF A MULTI-ANNUAL ROADMAP	37
6.0 INTERNATIONAL COOPERATION	41

Research priorities



Examples of EeB-PPP related running projects



Multi-source Energy Storage Systems Integrated in Buildings
www.messib.eu

Clean buildings along with resource efficiency enhancement using appropriate materials and technology
<http://www.clear-up.eu>

Resource and Cost-effective integration of renewables in existing high-rise buildings
<http://www.cost-effective-renewables.eu>

Development of a clean and energy self-sustained building in the vision of integrating H₂ economy with Renewable Energy Sources
<http://www.h2susbuild.ntua.gr>

Other projects are under negotiation

Main topics of EeB Call 2011



- EeB-NMP.2011-1 Materials for new energy efficient building components with **reduced embodied energy**
- EeB.NMP.2011-2 New efficient solutions for **energy generation, storage and use** related to space heating and domestic water in existing buildings
- EeB.NMP.2011-3 Energy saving technologies for buildings **envelope retrofitting**
- EeB.ENV.2011 Technologies for ensuring, monitoring and/or controlling a **high quality indoor environment** in relation to energy efficient buildings in particular
- EeB.Energy.2011 Demonstration of **very low energy new buildings**
- EeB.ICT.2011 **ICT** for energy-efficient buildings and spaces of public use

Thank you for your attention!!

Further information:

www.e2b-ei.eu