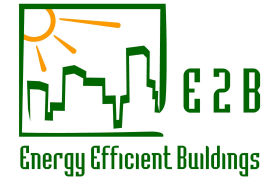


Energy efficiency in buildings and the EeB PPP: synergies and potential for FCH innovations, the role of the E2B Association

Stefano Carosio
Research and Innovation, Division Manager
D'Appolonia SpA

FCH JU - 2nd Stakeholders General Assembly
26-27 October 2009

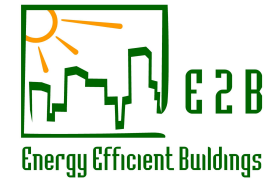
Where is the built environment sector?



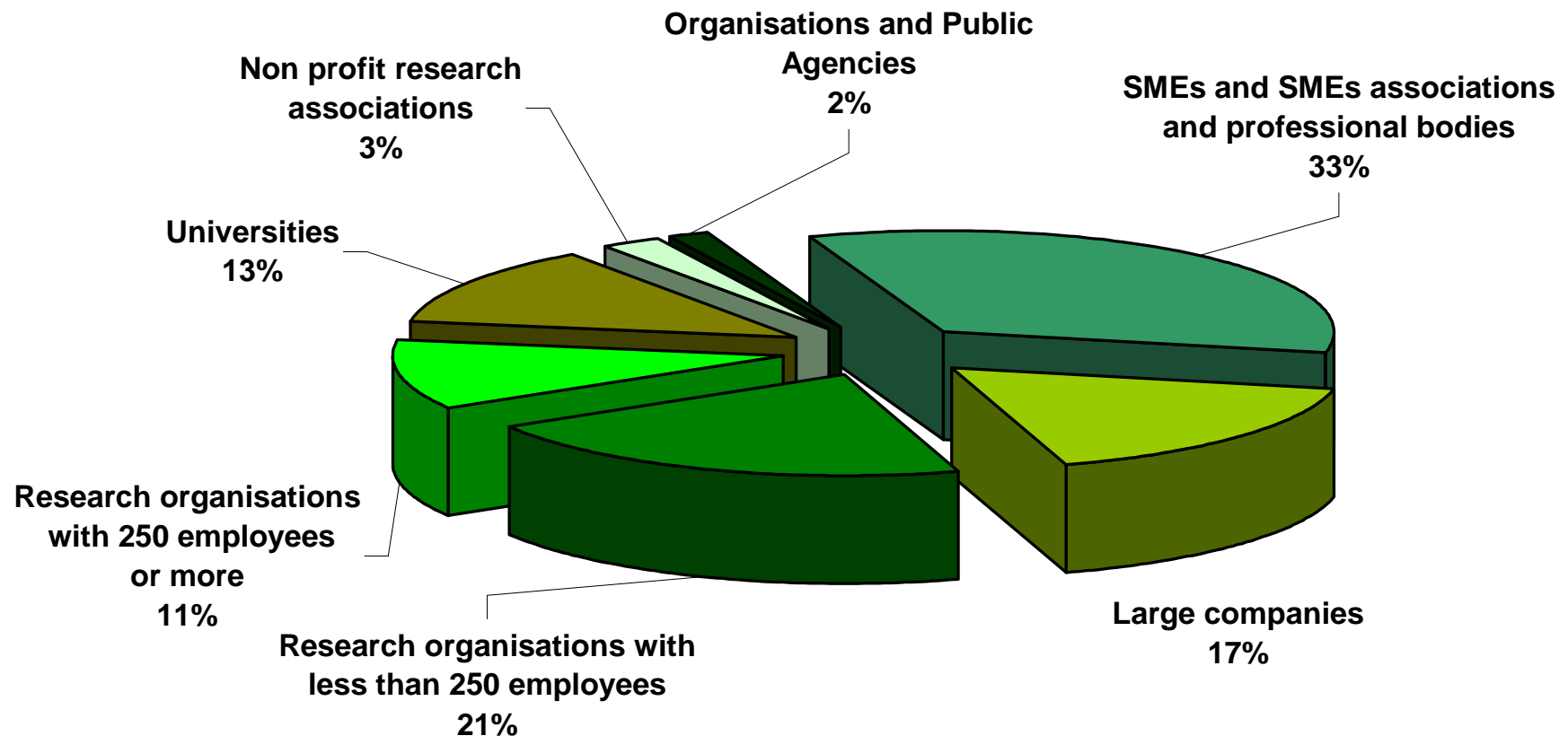
- Buildings use 40 % of total EU energy consumption
- The built environment generates 1/3 of GHG in Europe
- Even new buildings are far from being all energy efficient
- Replacement rate is very small (1 to 2 % per year)
- The renovation of the existing stock is a real challenge
- Many experiments are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

Business as usual is not an option!

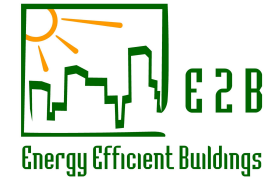
E2BA as industry lead platform



Over 130 members have joined the Association. Details and registration at **www.e2b-ei.eu**



Drivers for an Industry lead PPP



SET Plan

- Double the present energy efficiency targets
- 1/3 of total primary energy from renewables
- 40% reduction of emissions in transportation
- zero-emission electrical sector
- zero-emission residential sector

Lisb

European Economic Recovery Plan

- Relaunch/boosting of the economy
- Tangible impact and job creation
- Producing sustainable growth
- Creating more industries
- Creating more and better jobs

Communication i2010

- Strengthening investment in and the use of new technologies, particularly ICTs, by both the private and public sectors

The EeB PPP



From EC presentation at PPP Info day 13th July 2009:



Community research

Public-Private Partnerships

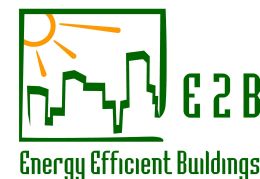
Who? EC, Industry, Research, MS

How?


- **Involvement of industry** in the planning and implementation
- **Quick response needed:** implies use of existing instruments
 - 7th Framework Programme
 - SRAs developed by industry in the European Technology Platforms
- **Implementation approach:**
 - In 2009, cross-thematic calls for proposals under FP7
 - In parallel, exploration of further calls and other options for longer term, e.g. Joint Technology Initiatives



The EeB PPP



From EC presentation at PPP Info day 13th July 2009:

 **EUROPEAN COMMISSION**
Community research

Budget EC Funding* Energy Efficient Buildings

	NMP	ENERGY	INFSO	ENV	TOTAL
2010	30	15	10 +(5)	5	65
2011	40	20	15	5	80
2012	70	35	30	5	140
2013	110	55	45	10	220
Total EC funding	250	125	105	25	505

* All budgets are not fixed yet



The EeB PPP



From EC presentation at PPP Info day 13th July 2009:



PPP Key success factors

- **Long-term commitment** from both Public and industry, based on a shared vision
- **Achievement of a critical mass** taking into account National , international Programmes
- **Build on existing organizations** (*ECTP and E2Ba*)
- **Ad hoc Industrial Advisory Group** as a mechanism that ensure a sustainable balance between public and private interests



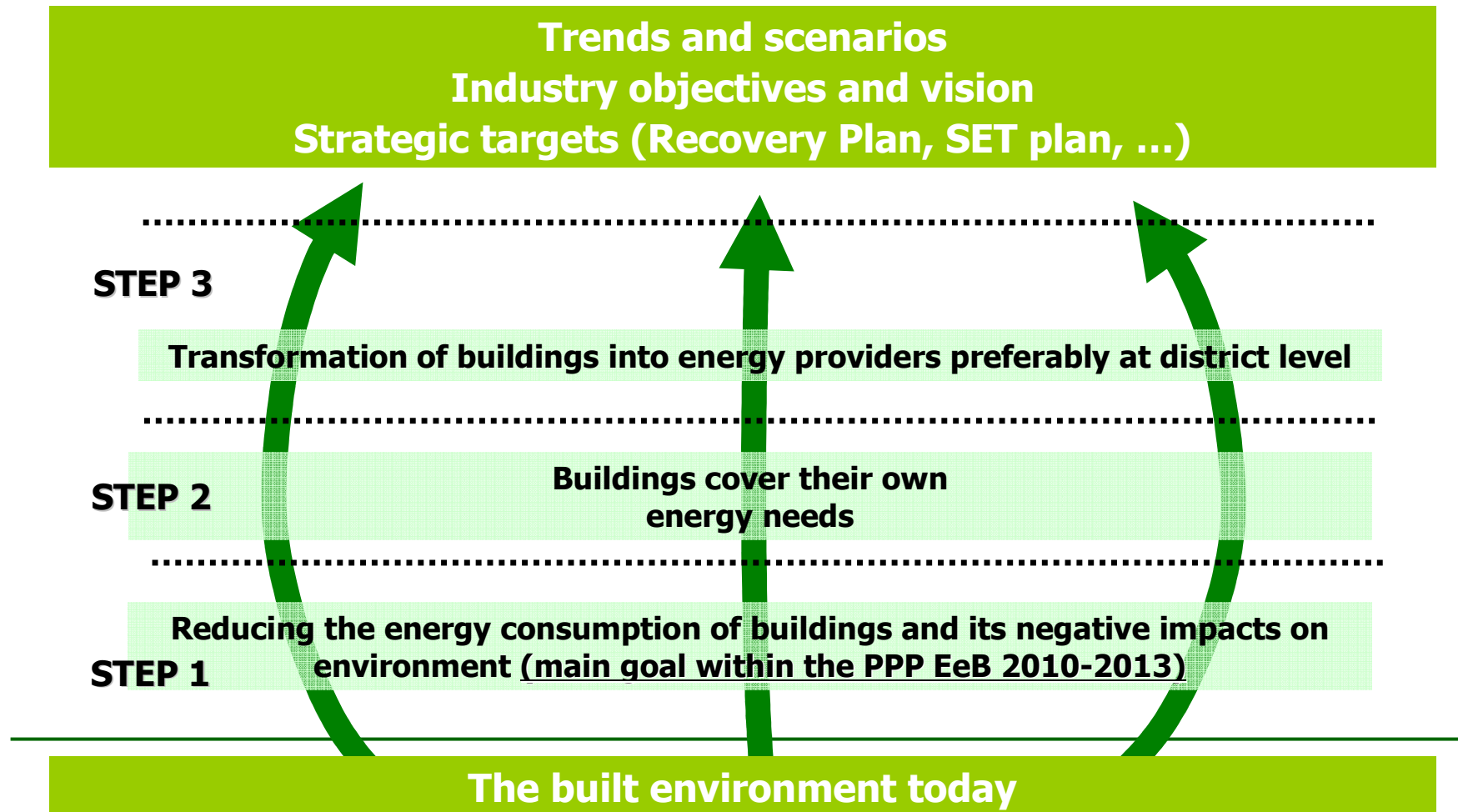
New transparent solar collector
Virtual image: © Fraunhofer ISE



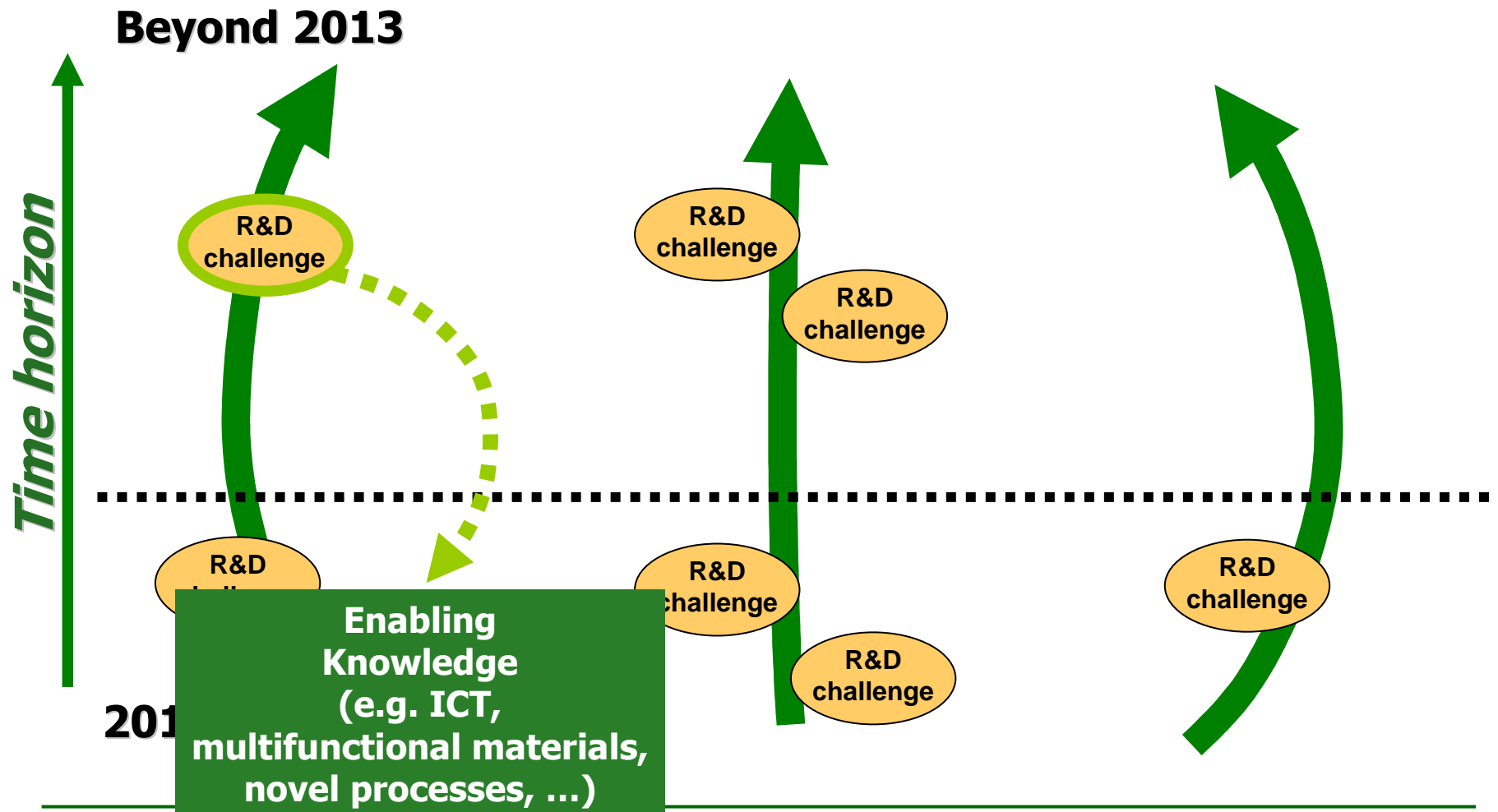
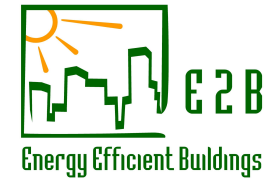
Ongoing Multiannual Roadmap



A multi-annual multi-stakeholders collaborative research roadmap prepared by the AIAG in close cooperation with the EC Interservice Group



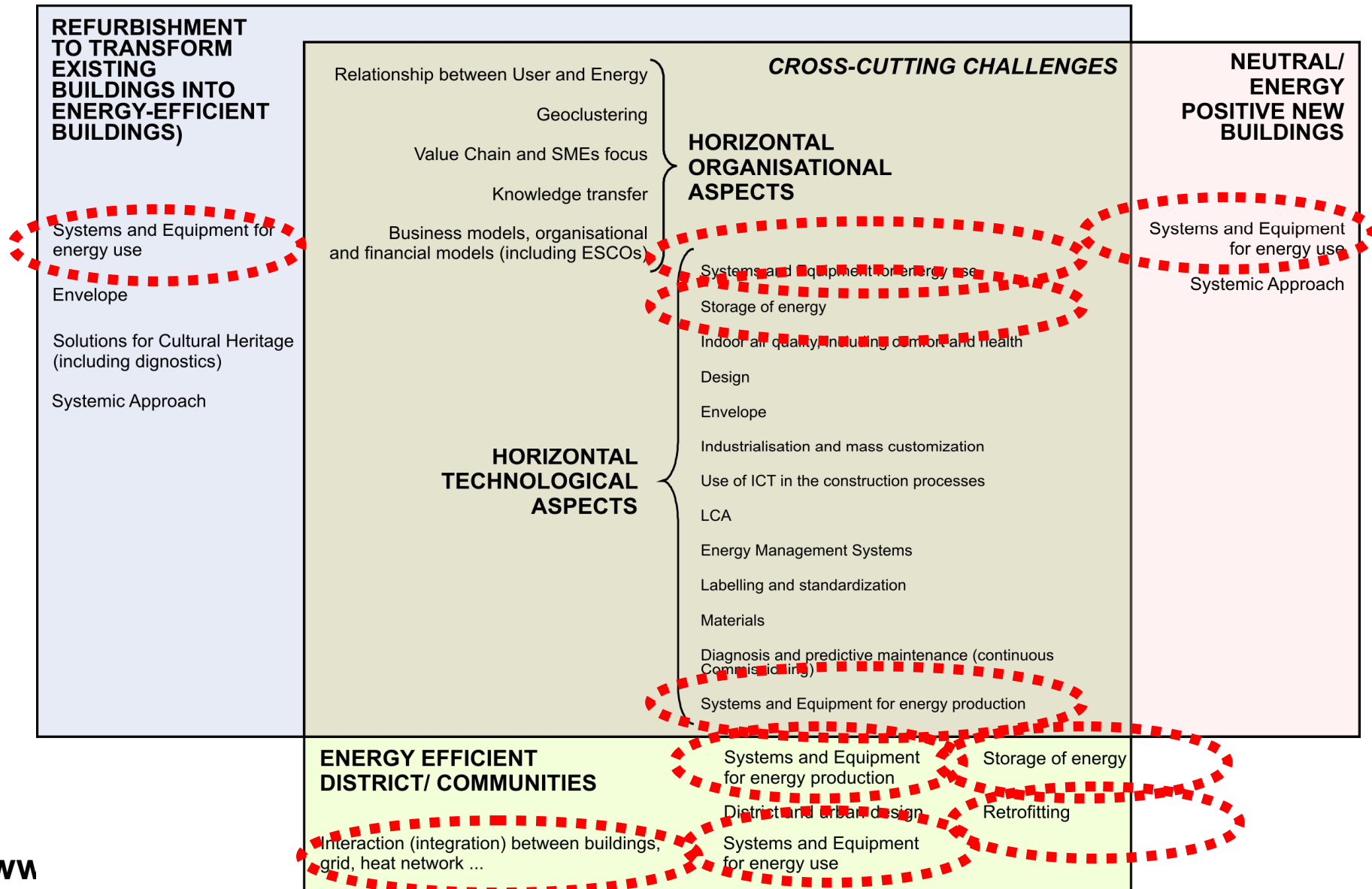
Ongoing Multiannual Roadmap





www.e

Ongoing Multiannual Roadmap

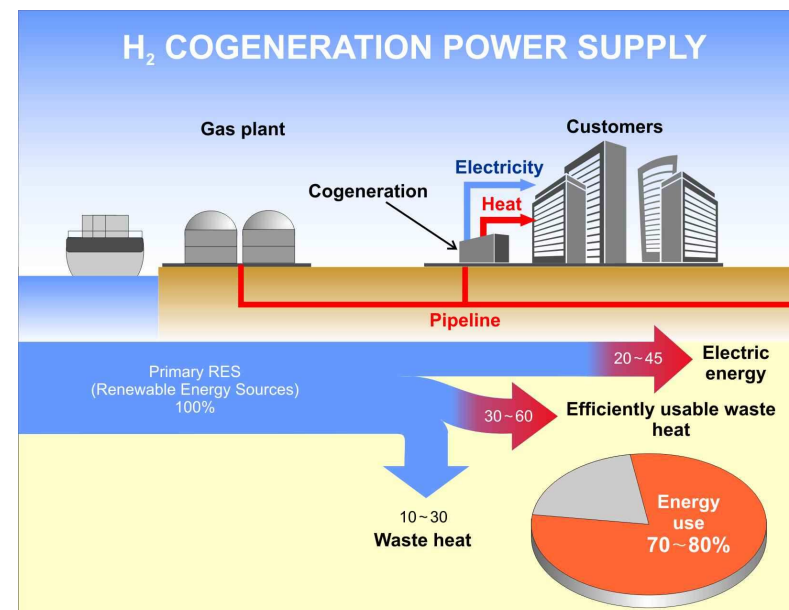
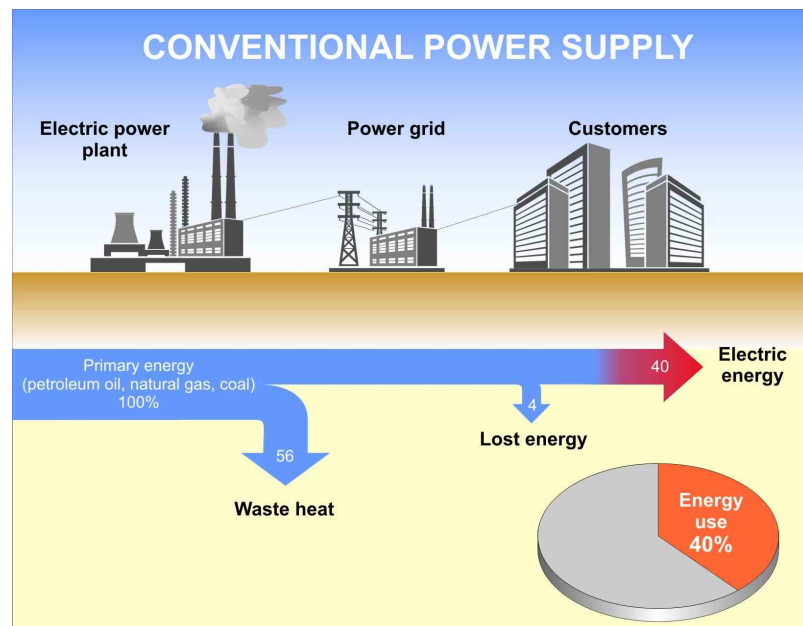


An example concerning FCH technologies

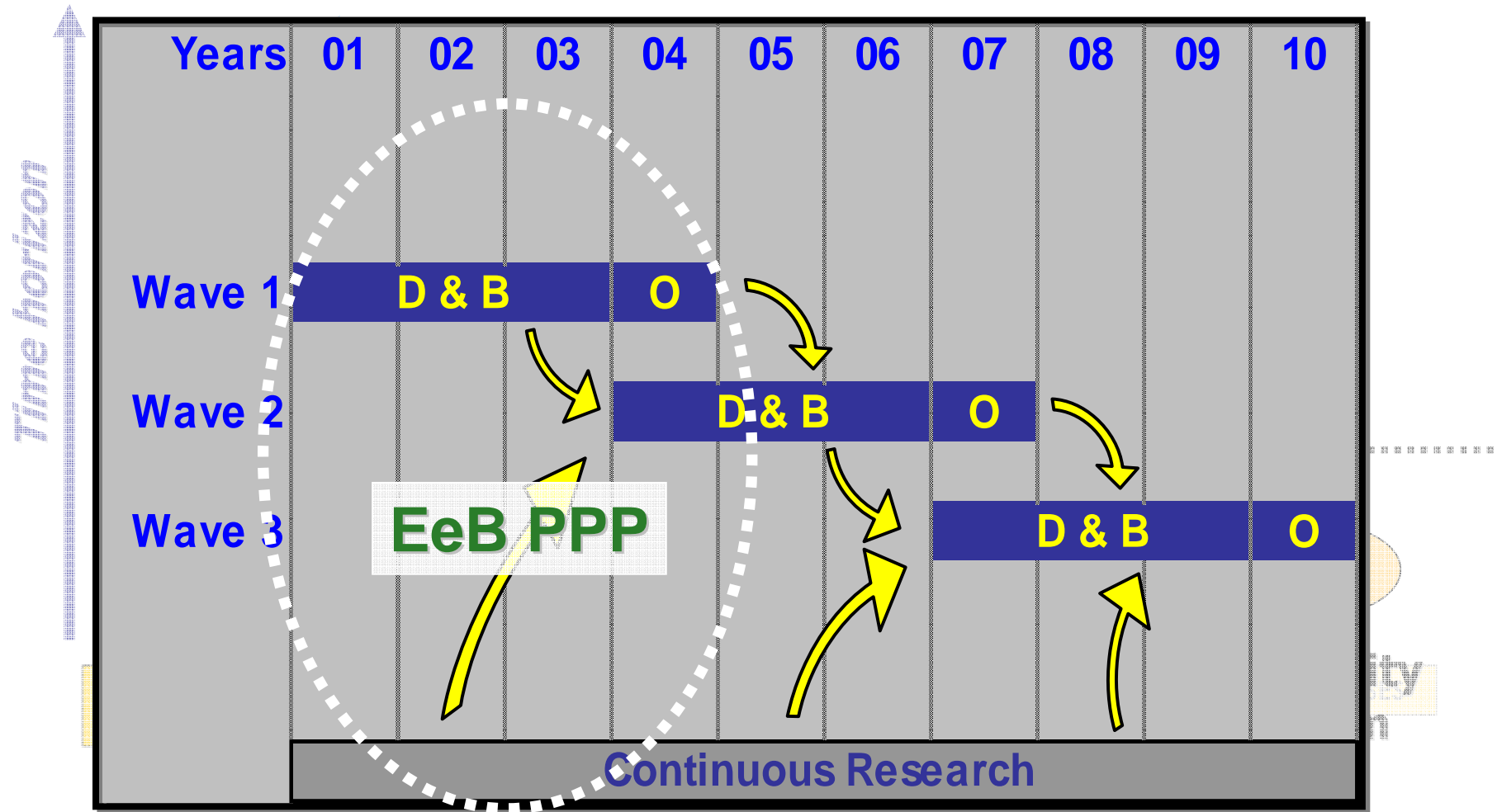


Coordinator:
D'APPOLONIA

Increasing the efficiency of power generation



The longer term strategy





Thank you for your attention!!

stefano.carosio@dappolonia.it

For further information please visit:

www.e2b-ei.eu