

Experience with FP7 Energy-efficient Buildings (EeB) projects and their synergies with SMART CITIES

SMART CITIES AND COMMUNITIES
Prague, 28/05/2013

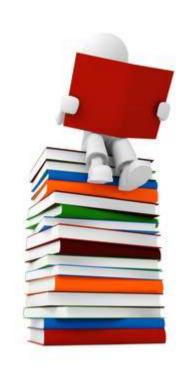
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Summary





- PPP and EeB
- EeB and Smart Cities
- AMBASSADOR project
- TRIBUTE project
- smart cities in projects
- final remarks

Public Private Partnership in Research and Development



important aspect for private sector:

- active participation of industry through industrial associations
- usage of existing instruments no new way of proposals submission
- rapid implementation proposal evaluation till two months, negotiation invitation till three months, project start in the period of 0,5 – 1 year (from the call closure)
- high share of evaluators from industry participating in projects evaluations
- challenging topics with interesting EU contribution
- long-term vision, continuation in Horizon 2020 is expected



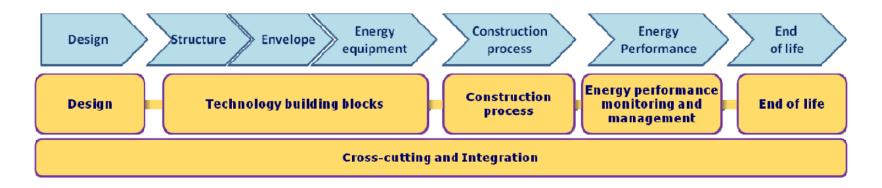




PPP Energy-efficient Buildings



- key role of E2BA association
- funds allocated for EeB projects:
 - 2010 2013 EU contribution to EeB 500 mil. €
 - 2014 2020 expected budget for EeB PPP 2,1 mld. € divided between the industry and EC
- funded projects cover the whole construction value chain

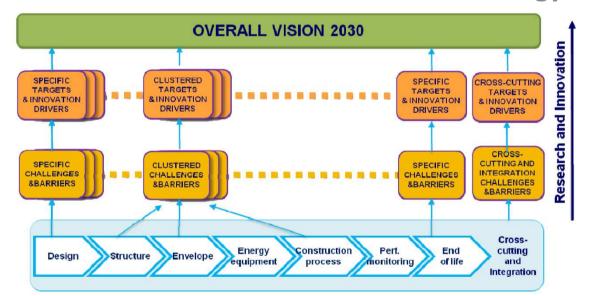




EeB and Smart Cities (1/2)



 intended extension of the running PPP EeB towards 2030 represents an additional and fully complementary pillar of the broader Smart Cities and Communities strategy



Source: EeB PPP Roadmap

2014 - 2020

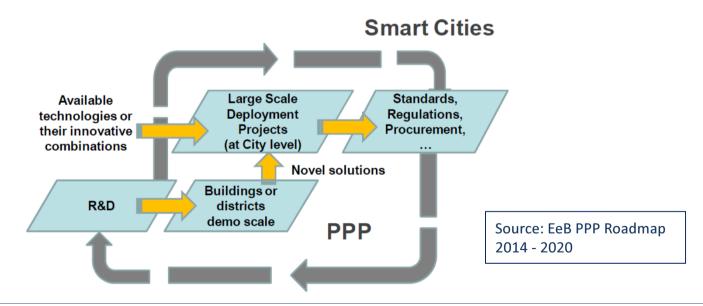
 cross cutting and integration aspects create links along the value chain areas and address the vision of the buildings and districts as part of a smart community and innovation eco-system



EeB and Smart Cities (2/2)



• EeB goal towards Smart Cities: developing innovative technologies and solutions which are validated at buildings and districts scale to be tested in the larger Cities framework when available = additionality and complementary of PPP EeB beyond 2013 within the framework of the broader Smart Cities strategy





Key aspects for projects submission



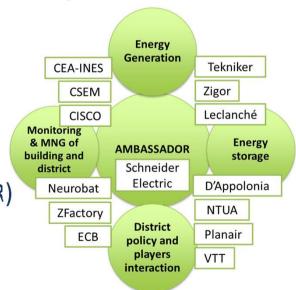
- suitable topic
- important timing by all partners multiwin situation for everybody
- potential partners' location in the value chain innovation pairs
- experience from previous proposal submission unexpected withdrawal of key partners
- big industrial partner interest in the project coordination
- clear understanding of hierarchy in big companies especially regarding their decision powers
- research ideas vs. industry needs => clarification of project idea



AMBASSADOR FP7 project



- Autonomous Management System Developed for Building and District Levels
- call: FP7-EeB.NMP.2012-1 "Interaction and integration between buildings, grids, heating and cooling networks, and energy storage and energy generation systems"
- duration: 01/11/2012 31/10/2016
- project funding: 6,5 mil. €
- partners:
 - 15 partners from 11 European countries
 - coordinator Schneider Electric Industries (FR)
 - AMIRES partner for MNG and DISS
- http://www.ambassador-fp7.eu





AMBASSADOR objectives

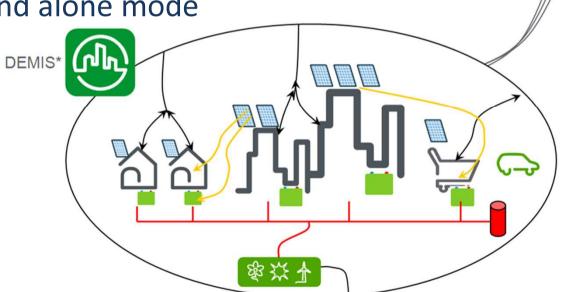


typical missions:



- to minimize CO₂ footprint
- to allow stand alone mode





* DEMIS: District Energy Management Information System



AMBASSADOR testing sites



 testing and validation in min. 2 countries with different climate conditions



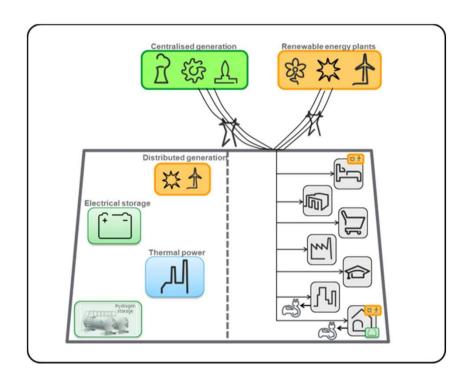


AMBASSADOR signature



the combination of...

- market analysis : actors, value chain, business potentials
- ecosystem awareness:
 models, usages, prediction
- flexible district : through horizontal energy flows
- resources sharing : both by individuals and by the district
- energy management strategies : advanced analytics, ICT, anticipation





TRIBUTE FP7 project



- Take the energy bill back to the promised building performance
- call: FP7-EeB.NMP.2013-4 "Integrated control systems and methodologies to monitor and improve building energy performance "

project is currently undergoing negotiation

- expected duration: 4 years
- expected project funding: 6,7 mil. €
- partners:
 - 16 partners from 11 European countries
 - AMIRES responsible for project management and dissemination



TUD

TEKEVER

Torino

La Rochelle

TRIBUTE

SCHNEIDER

ELECTRIC

ZFactory

EQUA

IREC

TRIBUTE objectives



- minimization of the gap between computed and measured energy performances through the improvement of the predictive capability of a state-of-the-art commercial BEPS
- development of significantly faster and more precise retrofit decision tool that will be offered to European regions and individuals
- improvement of energy flow management due to consideration of occupancy behaviour and continuous health monitoring approach
- occupant is always in the centre





TRIBUTE testing sites



BedZED – UK



La Rochelle agglomeration - FR







TRIBUTE Smart Cities



LA ROCHELLE

- orientation towards innovation and excellence since 70s
- one of its goals: urban policy of refurbishment => strategy towards retrofitting
- active in Energy Cities

 (association of local authorities in energy transitions)





TORINO

- new innovation policy framework for the territory and its institutions (Torino Smart City Strategy)
- one of its goals: smart energy
- active in EUROCITIES network of major European cities







Final remarks



DURING NEGOTIATION

- administrative activity with Participant Portal
- validation of new partners / third parties involvement
- financial viability of industrial partners / coordinator





AFTER PROJECT START

- interest of industry especially for the content and results of the projects
- IPR projection is key
- good planning and a lot of enthusiasm right from the beginning



"Make things as simple as possible, but not simpler"



Thanks for your attention!



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