





Partnership of European Regions on Energy Efficiency in Buildings

Summary of Status of the Partnership on Sustainable Buildings AAE

Brussels, 24 January 2018



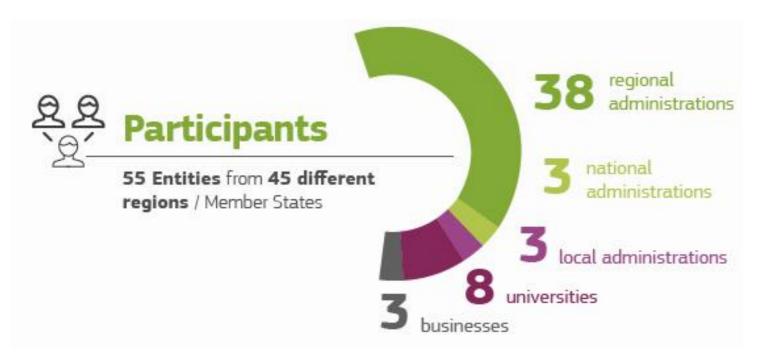
Current composition of the Partnership



Increasing number of entities interested (Denmark, Sweden, International

entities etc)









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Summary of activities in 2017

Review on the Partnership strategic documents



Participation in European events

Elaboration of a Map of capacities





Opening of collaboration business offers

Implementing the first pilot project: Smart Campus project







Review on the Partnership strategic documents



- Clearer description of the focus on pilot and demonstration projects (TRL 5-8)
- Clearer description of the added value of crossregional collaboration
- Inclusion of Research and Technology Organisations (RTOs) in the regional scope of the governance
- Definition of particular topics within each reference theme – 9 topics



Participation in European events

- **Smart Regions 2.0 Conference, Helsinki 1-2 June 2017**
- FEDARENE's General Assembly, Berlin 1-2 June 2017
- Partnership meeting in Hungary 6 July 2017
- How to accelerate innovation uptake for energy rehabilitation Conference, Sweden 12-13 September 2017
- Partnership Meeting, Brussels, 10 October 2017 JRC's central offices
- Innovation Camp, Brussels ,11-12 October 2017
- Partnership Meeting, Brussels, 22nd November 2017
- Partnership Meeting, Brussels, 24th January 2018





European Week | Brussels 8-11 October 2018

04 - 08 JUNE 2018

EU SUSTAINABLE ENERGY WEEK LEAD THE CLEAN ENERGY TRANSITION















Elaboration of a Map of capacities



Launching of a questionnaire for the identification of relevant actors on the level of particular topics within each reference theme

- Launched on 4th December 2017
- 16 surveys filled
- Still open on:
 http://s3platform.jrc.ec.europa.eu/sustainable-buildings

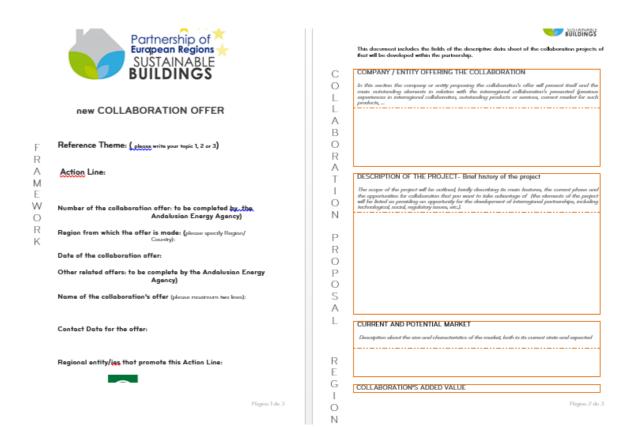




Opening of collaboration business offers

Identification of collaboration offers and creation of working groups with the involvement of regional actors:

- 12 collaboration offers already identified.
 Still needed:
 - Identification of other regions interested Involvement of the regional actors
 - Creation of working groups







Implementing the first pilot project: Smart Campus project

One of the eight projects selected under call launched by EC to pilot interregional innovation projects

Objective: to improve the energy efficiency of University Campus

Regions involved:

- 1. Andalusian, LR (Spain)
- 2. Friuli Venezia Giulia Region, SC (Italy)
- 3. Central Slovenia Osrednjeslovenska (Slovenia)
- 4. South Karelia (Finland)
- 5. Provence-Alpes-Côte-d'Azur (France)
- 6. Algarve Region (Portugal)

Support from EU: advice for scaleup and commercialization









- Complete the map of capacities
- Complete the Partnership tools
- Implementation of Smart Campus Project
- Creation of working groups for selected collaboration proposals
- Involvement of regional actors in the new collaboration proposals
- Implementation of new business cooperation initiatives and pilot projects







Partnership of European Regions on Energy Efficiency in Buildings

New partners and ideas for pilot projects

Brussels, 24 January 2018



Project Ideas





1. Eco
construction,
bioclimatism
and insulation of
buildings

Topic 1: New materials with low carbon footprint

 Applications of natural paints and coatings in exterior insulation systems or in ventilated facades - Andalusia

Topic 2: Innovative constructive processes: light prefabrication of low-cost housing, advanced manufacturing for new construction elements

Efficient systems for the outer envelope and interior installations of industrialised construction – Andalusia

Topic 3: Bioclimatic solutions based on green bio elements (in roofs, facades etc.)







2. Renewable energy integration in buildings

Topic 1: Climatisation with renewable energies

 Heat pumps fed from waste heat sources and seasonal thermal energy storage - Pomorskie

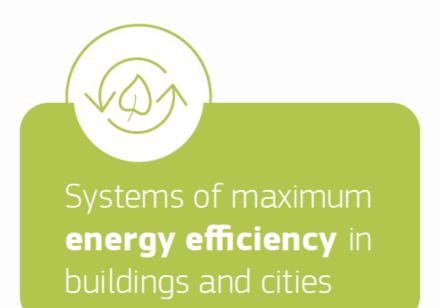
Topic 2: Self-consumption and energy storage

Creating a Living Lab-based laboratory – Pomorskie

Topic 3: Low cost solutions aimed at vulnerable groups

 Maximizing social benefits of sustainable buildings for vulnerable groups- from Innovation's Camp







Topic 1: Innovative solutions of high energy efficiency: evaporative cooling, LED lighting, microcogeneration....

- Micro CHP (10-100 kw) to provide heat and electricity to housing and commercial in Pomorskie
- Efficient solutions in the rehabilitation of public secondary schools in Andalusia

3. Systems of maximum energy efficiency use in buildings and cities

Topic 2: Smart energy management systems and IoT Internet of Things:

- Smart Campus project
- Energy Certification by IVE
- IMPULSE-Management support tools for planning energy efficiency interventions in public buildings by IVE

Topic 3: Advanced solutions for energy rehabilitation of historical heritage buildings

Rehabilitation of a historic building in Cadiz, Andalusia



INNOVATION'S CAMPS IDEAS



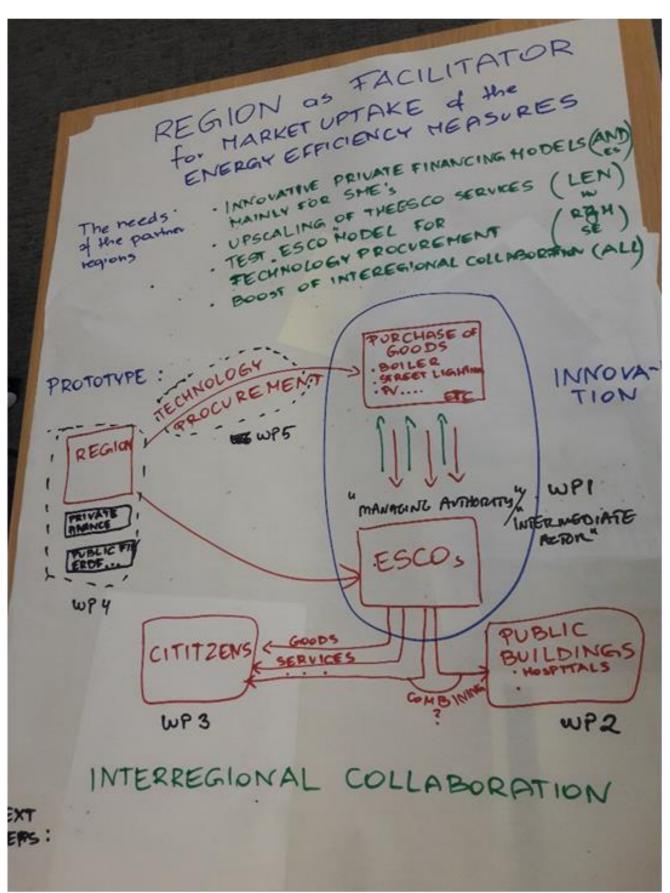
Regions as facilitator for market uptake of the energy efficiency measures

Aim of prototype:

Upscaling and extending the ESCO's model to technology procurement while targeting citizens.

Methodology:

- Regions/local authorities would issue public procurements related to the purchase of 'sustainable' goods (boilers, etc.)
- These goods would then be bought by ESCOs and sold to citizens (and eventually to public buildings) at a lower price (aggregation).
- Public procurement could include a criterion that promotes products from cross-regional collaborations.





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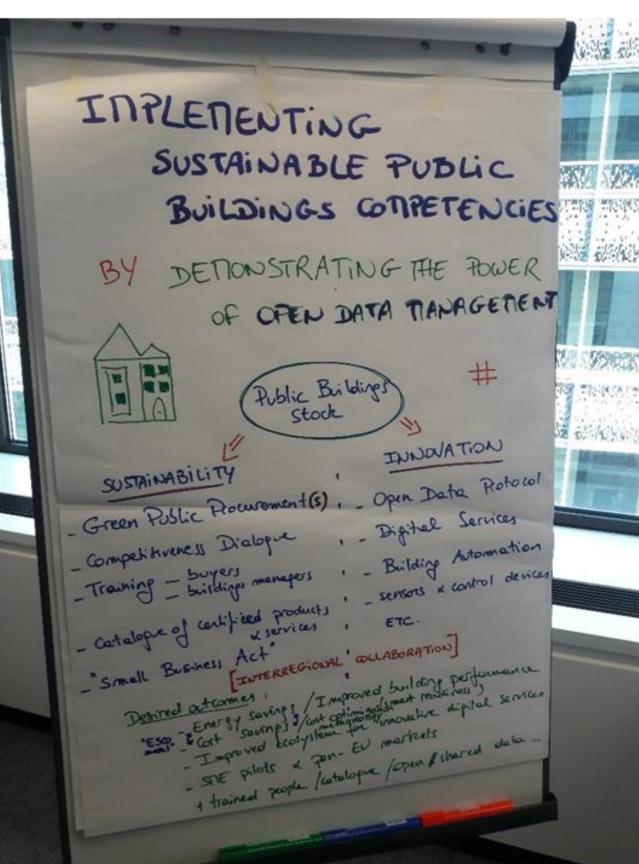
Improving sustainability of public buildings through (green) public procurement

Aim of this prototype:

Foster sustainability and innovation in public buildings stock, building upon increasing use of open data management.

Methodology:

- Existing monitoring and management tools (sensors, etc.) and the utilization of new tools and analysis, diagnosis
- Open data management and the use of new tools, protocols and analysis could be promoted by public procurement







Suggested Activities of green public procurement prototype:

1. Training for buyers and buildings managers setting up catalogue of certified products (Small Business Act)

2. Cross regional collaborations

sharing best practices,
establishing common guidelines,
toolbox,
common training scheme and certification

3. Implementation of sustainable public buildings competencies through open data management



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Maximizing social benefits of sustainable buildings for vulnerable groups

Proposed objective:

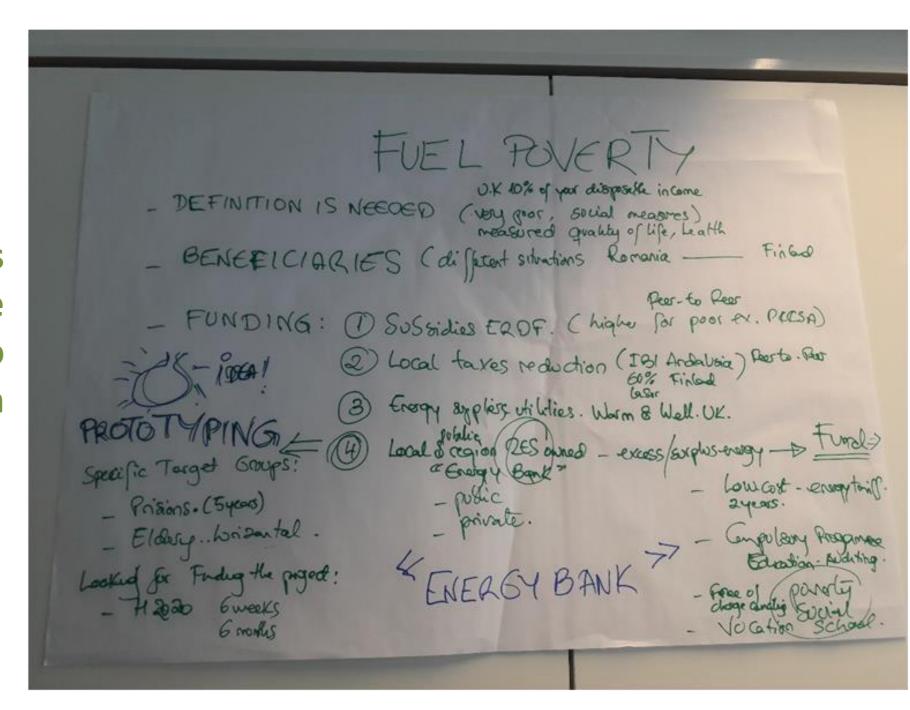
Set up local/regional energy funds (incl. public and eventually private funds), which would allow to provide lower income citizens with energy at a lower cost.

Foreseen Tasks:

Peer to peer sessions
Sharing best practices
Financing.

Initial interested Partners:

Andalusia, Gloucester, Slovenia, Lapland, Romania









more info:

http://s3platform.jrc.ec.europa.eu/sustainable-buildings

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