



Andalusian Energy Agency
Marisa BORRA MARCOS,
23rd May Kemi, Finland



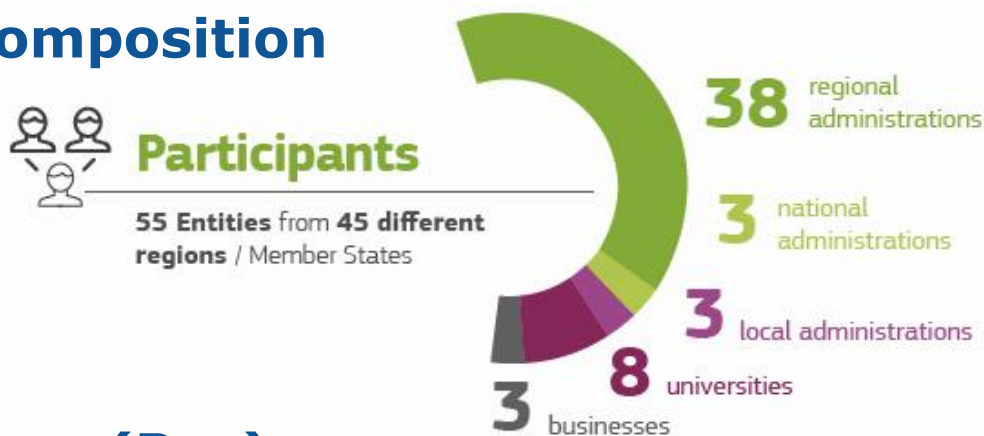
 @S3Platform #S3PEnergy

Introduction to the Partnership

Objective:

Alliance between regions to boost new markets for sustainable buildings

Current Composition



Priority áreas (Pas)



Eco-construction,
bioclimatism and
insulation of buildings



Renewable energy
integration in
buildings



Systems of maximum
energy efficiency in
buildings and cities

Key Elements:

Commitment, Collaboration, Added Value, Integration, Smart Specialisation and Open Innovation

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

European scope

- **Steering Committee**
- **Interregional working groups**
- **Supporting entities**



Bottom up

Top down

Regional scope

- **Regional Administration**
- **Regional representative entities**
- **Regional companies**
- **ROT**
- **Users of energy solutions:**



Governance Main Challenges



**Governance
at two levels**



**Clear
commitment**



**Adequate
tools**



**Economic
resources**



Themes	Coordinator
Leader	Andalusian Energy Agency, Spain
0. Co - leader	LENERG, Hungary
1. Eco construction, bioclimatism and insulation of buildings	Confirmed leader Lapland Region, Finland
2. Renewable energy integration in buildings	Proposed New Coordinator South-Karelia/ Regione Friuli Venezia Giulia/by projects
3. Systems of maximum energy efficiency use in buildings and cities	Proposed IVE Valencia Institute of Building/by projects





**Eco-construction,
bioclimatism and
insulation** of buildings

**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.)
Anti urban heat islands platform – Avitem (France)



Renewable energy integration in buildings

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





Systems of maximum
energy efficiency in
buildings and cities

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

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

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

Smart Campus project lead by AAE and FVG

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

Collaboration 's offer- 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 scale-up and commercialization





**Eco-construction,
bioclimatism and
insulation** of buildings

1. University of Trieste (Italy)
2. University of Udine (Italy)
3. University of Ljubljana (Slovenia)
4. University of Malaga (Spain)
5. Lappeenranta University of Technology (Finland)
6. University of Algarve (Portugal)

1. Directorate of the Energy Service - **RAFVG** (Italy)
2. Andalusian Energy Agency - **AAE** (Spain)
3. Lappeenranta City – **LAP** (Finland)
4. Energy Directorate – **SED** (Slovenia)
5. Agence des villes et territoires méditerranéens durables - **AVITEM** (France)
6. Areal Regional Energy and Environmental Agency – **AREEA** (Portugal)



**Renewable energy
integration in
buildings**



1. **ABB SpA** - industrial supplier
2. **Blue Energy Group SpA** (Italy) - energy trader
3. **OverIT** (Italy) - ICT for energy enterprises
4. **Technological Corporation of Andalusia** (Spain) - PPP
5. **Green Energy Showroom**, cluster (Finland)
6. **Iskraemeco** – energy collector (Slovenia)
7. **GEN-I** – energy supplier (Slovenia)
8. **Enercoutim**, Alcoutim Solar Energy- association (Portugal)

1. **Academic** :students, professors and staff from the related campus.
2. **AEIT** (Italian Association of Electrical, Telecommunication, Automation and Computer Engineers) – Network of stakeholders, FVG Section (Italy)
3. **REDEJA** – Energy Management Network of the Andalusian Regional Government (Spain)
4. Responsible for **maintenance of public buildings** in the regions involved.



Systems of maximum
energy efficiency in
buildings and cities



Eco-construction, bioclimatism and insulation of buildings



Renewable energy integration in buildings



Systems of maximum **energy efficiency** in buildings and cities

WP1: Smartness Assessment of University



- **Survey among University Campuses**
- **Survey among Industrial Stakeholders**

WP2: Interregional Innovative Pilot Cases



- **Business Plan** of selected Pilot Cases
- **Commercialization and scale up** of selected Interregional Innovative Pilot Cases
- **Technical and legislative solutions** to Pilot Cases bottlenecks
- **Blending of funds** to support the Pilot Cases realization

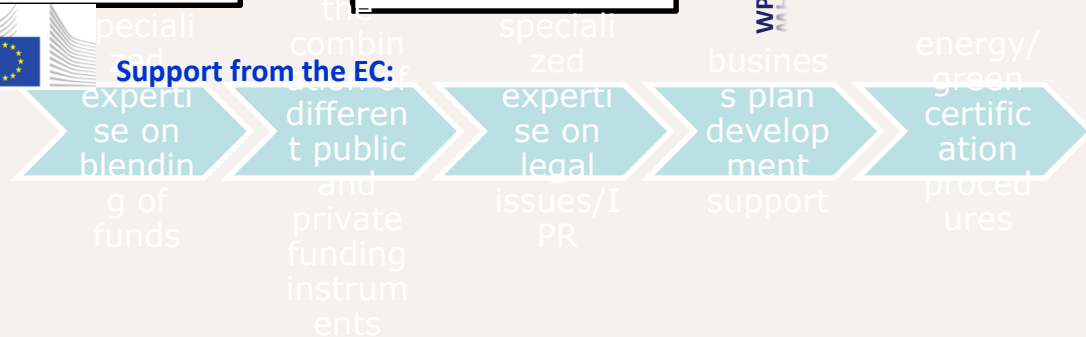
WP3: Definition of Smart Campus requirements



- **Policy dialogue** among Regions
- **University Buildings Energy Efficiency Roadmap** for the Development of Smart Campuses



Support from the EC:



Participation in international events since June 2017

- **Smart Regions 2.0 Conference, Helsinki 1-2 June 2017**
- **FEDARENE's General Assembly, Berlin 1-2 June 2017**
- **Partnership meeting in Észak-Alföld, 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**
- **Innovation Camp, Brussels 11-12 October 2017**
- **Partnership Meeting, Brussels; 22nd November 2017**





Arctic Wood Building and
Circular Economy Forum
May 23-24, 2018



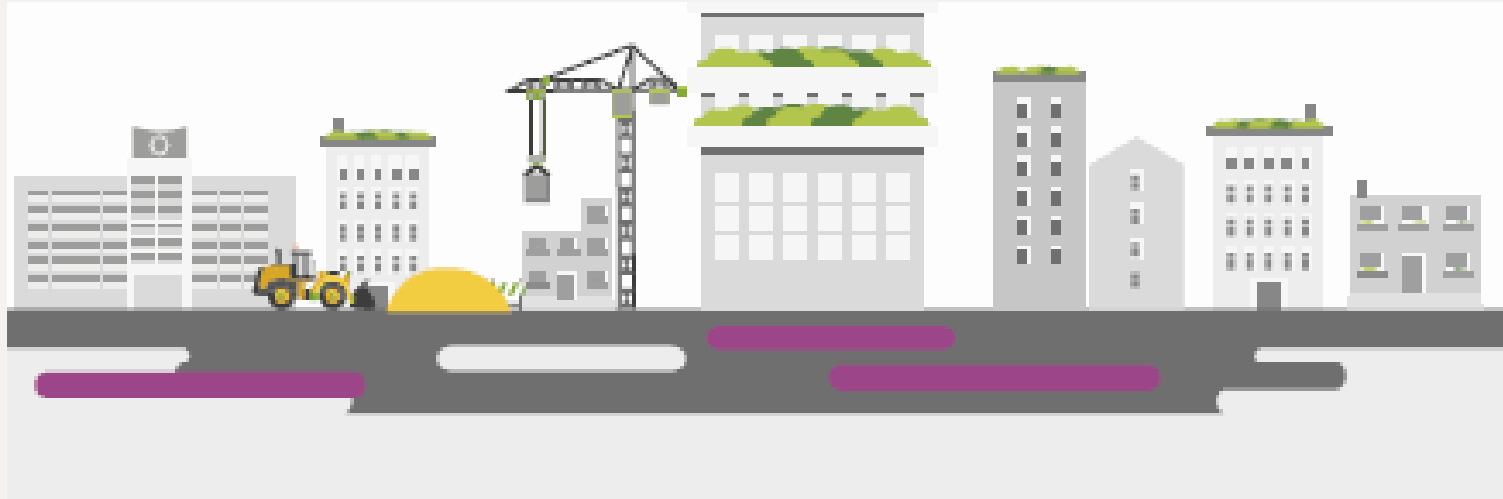
**REGIONS
& CITIES**
European Week | Brussels
8-11 October 2018

Next steps:

- Development of industrial projects for smart campus
- Development of pilot-project from Demo-cases

Next meetings:

- High Level Event, Brussels, 24th January 2018
- Partnership Meeting, Brussels, 24th January 2018
- Stakeholder Meeting, Kemi, 23rd May 2018
- Arctic Wood Building and Circular Economy Forum, Kemi 23rd and 24th may 2018
- Partnership meeting, EUSEW, 6th June 2018
- Regions and cities 8-11 October 2018



More information:

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

Thank you very much!!!!

Partnership on Sustainable Buildings
Partnership on Sustainable Buildings
Fernando.MERIDA-MARTIN@ec.europa.eu
Ana.DIAZ-VAZQUEZ@ec.europa.eu
Isabelle.SEIGNEUR@ec.europa.eu

Contacts at Andalusian Energy Agency
Marialuisa.borra@juntadeandalucia.es
Joaquin.villar@juntadeandalucia.es

