



Partnership of  
European Regions  
SUSTAINABLE  
CONSTRUCTION



Partnership of European Regions on Energy  
Efficiency in Buildings

**Working meeting “Innovation Map and Pilot Projects”  
Région Provence Alpes Côte d’Azur (PACA)**

Brussels, 22nd November 2017

- **Who we are ?**

## Région Provence Alpes Côte d'Azur (PACA)

Regional Policies objectives : Increase the competitiveness/attractiveness of the partner regions by developing new facilities on business opportunities. These should also contribute to the development of an overall and combined approach to the value chain of smart grids in which the PACA region is involved (Flexgrid project). The partnership in this sub-group will focus on **the Smart Energy and Sustainable buildings** applicable to the experimentation of Smart Campuses but also related to issues of innovative and industrial capabilities, training, market and industrialisation solutions. The PACA Region is also involved with the Basque Country in the **governance of the thematic Smart specialization** (TSSP) platform Energy / Smart grids.

- **Explanations about regional partnership**

### Avitem

is a French public agency dedicated to **sustainable, integrated urban and regional development** in the Mediterranean area. The agency is involved **in buildings energy efficiency issues** through **the implementation of European cooperation projects** (ZEROCO2, potentially POWER-TY) liaising with key regional and local stakeholders (ADEME, CEREMA, DREAL, ALEC, BDM, etc.) and with key partners such as **Euroméditerranée** (Ongoing selection of a H2020 project). Its added value in the partnership is thus to highlight these projects results, build synergies with other initiatives, and disseminate the practices of the project both at regional and European levels.

- **Names of partners**

## AMU Aix-Marseille Université

The University of Aix Marseille has shown interest in participating as potential **stakeholder in the SMART CAMPUSES project** and the Region PACA is awaiting validation by the President of AMU.

## TheCAMP

Open since October 2017 in Aix-en-Provence on a 17-acre site in natural settings, thecamp is a **base camp for exploring the future**. This international campus dedicated to **emerging technologies and social innovation brings together a unique ecosystem** of public and private sector professionals, experts, elected representatives, entrepreneurs and other beneficiaries (artists, children, ...). From all over the world, thousands of campers come for few days to live a typical night and day experience in our place : between work, personal development and inspiration, **thecamp is a living place for exchanging, creating and experimenting on a large scale**. According our target to become the first place certified BCorporation\*, **Energy is one of our big challenge driving those experimentation**.

*\*BCorps lead a global movement of people using business as a force for good. They meet the highest standards of verified social and environmental performance, public transparency, and legal accountability, and aspire to use the power of markets to solve social and environmental problems.*

Following the ambition to be the first European Smart Region, **Region Provence-Alpes Côte d'Azur is a founding partner of thecamp**. Through ambitious project as **Flexgrid**, this partnership allow both actors to highlight digital attractive feature of the region.

### Private partners

*Crédit Agricole Alpes Provence, Crédit Agricole, Accenture, AccorHotels, Air France, Cisco, CMA CGM, MAIF, Groupe VYV, SNCF Gares & Connexions, La Poste, RATP, Sodexo, Steelcase, VINCI Construction, VINCI Energies, Sanofi, Airbus.*

### Public partners

*Région Provence-Alpes-Côte d'Azur, Département des Bouches-du-Rhône, Métropole Aix-Marseille-Provence, CCIMP*

- **Main action lines to be highlighted (to be defined together)**

## Région Provence Alpes Côte d'Azur (PACA)

The PACA Region, winner of the national Flexgrid call for projects, is **promoting “a label of excellence territory”** for the large-scale deployment of **Smart electricity grids**. The energy improvement of buildings (in particular the use of biobased (biosourcés) materials and wood) in connection with the Mediterranean climate / summer comfort, and the comfort of life (insulation, lighting and opening).

The **development of renewable energies, energy optimization through the development of Smart grids and the renovation of buildings**, in connection with the Campus issue, are therefore important issues for the PACA region. It is of interest to define with all the stakeholders in connection with the S3P Energy / Sustainable Buildings a roadmap and deliverables for the pilot projects to be tested.

**Avitem** could:

- **Support the PACA region** for the coordination of the regional partnership.
- **Create synergies** between **the project and the ZERO CO2 action plan** to be implemented in 2018-2020 and aiming at improving regional public policies towards zero CO2 emission buildings.
- **Share experiences between the consortium and the pilot project** to be implemented in the Euromediterranee perimeter (HAPPEN H2020).



- **What kind of technologies concerning energy efficiency at the Smart building campus we have now ?** Description of the type of campus and description of the technologies used in campus

## TheCAMP

### **Solar camp** : *an experimentation around energy and mobility*

What : “Vehicle-to-grid” bring flexibility providing car energy to the grid

Where : thecamp car park

### **Smart and active solar glass for windows and building** – *Sunpartner Technologies*

What : Solar energy stored by the system powers window blinds and lighting as well as open/close and dimming systems

Where : Gym’s window and reception

### **Innovative water heater** - *Solable*

What : grey water’s energy heating the clean water during your shower to reduce energy bill

Where : Gym’s locker room

### **2 SmartFlowers** - *EDF ENR*

What : all-in-one plug & play solar system following the sun all the day long to produce electricity for the campus

Where : Outside thecamp

### **Solar panels**

What : 200 square meter of photovoltaic panels produce electricity for the campus

Where : Lodgings roof

### **Technical building management software**

What : Technical building management software reports energy consumption floor by floor in each building.

Where : every building of thecamp

- **What kind of technologies we foreseen in our campus (other ideas for collaboration) ?**
  - Description of the planning for next years
  - Highlighted technologies, cluster, etc.
  - Possible bottleneckness and foreseen solutions

## Région Provence Alpes Côte d'Azur (PACA)

The objectives of the Call of expression of interest launched by DG REGIO, in link with the Platform partnership, will give a **clear overview of regional interest on the issues of Smart campuses based on the evaluation made during the workshop and the results of this survey.**

The **support provided by the Commission through this Call and the team of consultants would be greatly appreciated and essential to support the partnership and all the stakeholders from the regional territories** in the development and structuring of demonstration projects.

## TheCAMP

In the following years, many project will be managed by the Camp.

The first year will be a beta year for the campus to improve all of our process on site.

In this time, the Camp will have some main project about energy :

- **To improve our energy efficiency**, technical building management software will communicate with the booking accommodation system to regulate the heating temperature according to the room's activity.
- **About smart grid**, will be installed in March a demonstrator of blockchain technology for electric car.
- **Concerning hydrogen**, work is in progress to install hydrogen vehicle and recharge machine at the railway station Aix TGV. A battery could be installed at the Camp.
- **About innovation**, the Camp hosts a star-up accelerator which could deliver some innovation in the energy sector. The selection of the first start-up is not yet delivered.

In the long run could possibly be bought a third accommodation building. The Camp would like to be exemplar in this process and build an innovative and sustainable structure.

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