

Date: Friday 10th of December 2021

Time range: 09⁰⁰-16⁵⁵

REEHUB PLUS / 1ST CROSS BORDER EVENT
“SMART CITY OPEN INNOVATION FORUM”

ORGANIZED BY:



BARLETI INSTITUTE FOR
RESEARCH AND DEVELOPMENT

SUPPORTED BY:



UNIVERSITETI
BARLETI

Speaker:

Andrea Di Girolamo - External Consultants

Presentation by

Diego Vincenzo Salzano - Expert Advisor

Municipality of Agnone (Italy)

Relation:

Smart Building Solutions for Small Municipality



THE STARTING POINT: “REEHUB PROJECT”

LOCAL HUB IN AGNONE:

A VENUE FOR IMPROVING ENERGY EFFICIENCY IN PUBLIC BUILDINGS

The "hub-laboratory" permitted to reach the **reehub's objectives**:

- raising awareness in energy saving
- collect educational and training materials for energy efficiency audit in the building sector.
- organize capacity building actions and trainings on energy efficiency



THE STARTING POINT: “REEHUB PROJECT”

THE "HUB-LABORATORY" is located in **PALAZZO BONANNI**, an historical building of the XIII Century in the antient urban part of Agnone. In the last few years the complex has been restored and used as museum and tourist and cultural center.

The **REEHUB laboratory** involved in particular local stakeholders:

- **TECHNICIANS**
- **STUDENTS**

Having identified the **high school students**, as key target group, was the starting point to promote the sectors of energy saving and renewable energy in the small community.

The lab is also used to deliver **training courses** on **RES** and **RUE** addressed to **local technicians**.



REEHUB PLUS AND THE SMART BUILDING IN AGNONE

The idea of seeing young students, as main actors of their future, has suggested to the Municipality the identification of **TWO BUILDINGS** for **REEHUB PLUS PILOT ACTIONS** *"identification of public buildings for energy performance diagnosis"*

- POLO SCOLASTICO "G.N. D'AGNILLO " in Piazza del popolo, Agnone
- CITY HALL of Agnone Municipality

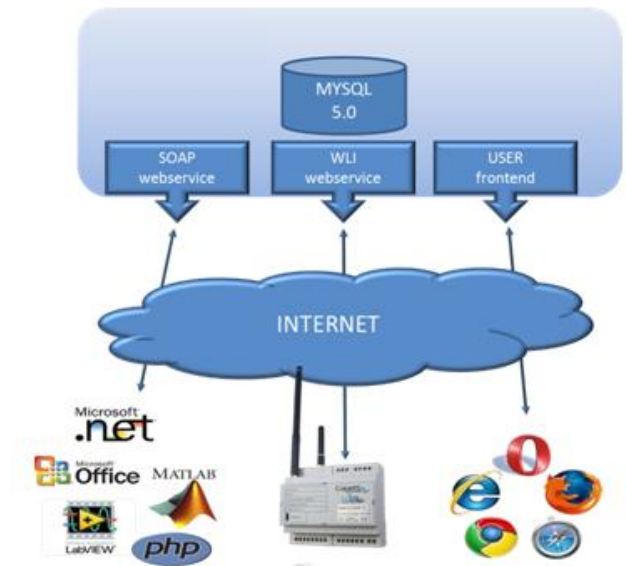
The **MEASUREMENT CAMPAIGN** will see the use of devices and equipment that, through a **monitoring system** 24 hours a day for 365 days, will allow to **collect data** of the electrical, heating, air and lighting systems of the buildings.

The performance characteristics of the building systems will be analysed thanks to data available and also managed to enable efficient and economical use of resources, while creating a safe, comfortable and smart environment for occupants.



SMART BUILDING: TT&C System (TELEMETRIA TELECOMANDO E CONTROLLO)

- The collection of data in a continuous way (**TELEMETRY**), sent via network to a dedicated platform, will allow the constitution of a remote **data-base for the measurement campaign**.
- A bidirectional interface will allow to **interact remotely** with a **control unit** by modifying the step of the frequencies for example of the measurements of the individual devices, it will be determined as it is a remote control.
- The whole system will **monitor** the **energy performance of the building** and the parameters of the building systems and for controlling the energy consumption, the microclimatic and trasmitance of the walls;
- The **REMOTE SYSTEMS** is able to modify the operating parameters of the building.



SMART BUILDINGS FOR A SMART VILLAGE

The Monitoring Methodology “Telemetria Telecomando e Controllo (TT&C)” in the building allowing to:

- to interact with several devices and energy system of the building;
- modify the energetic behavior of the buildings in a more efficient and sustainable way.

The model applied can be **TRANPOSED AND REPLICATED** to other buildings in Agnone (including also private buildings) and in other smart cities and villages

WHAT IS THE KEY MESSAGE FROM THE REEHUB PLUS EXPERIENCE ?

In old villages, renovate buildings in an eco-sustainable way and making them smart, is one of the preconditions for creating an efficient **Smart Village**



OTHER STEPS TOWARDS SMART VILLAGE AND ENERGY COMMUNITY

PHOTOVOLTAIC SYSTEM BUILT ON THE ROOF OF THE LOCAL SCHOOL

funded by Italian Ministerial Decree on 11/11/2020 "investments for public works on energy efficiently"

The installation of the PHOTOVOLTAIC SYSTEM is part of the interventions for developing an ENERGY COMMUNITIES in Agnone.



THANK YOU FOR YOUR ATTENTION !

www.comune.agnone.is.it

<https://reehubplus.italy-albania-montenegro.eu/>