



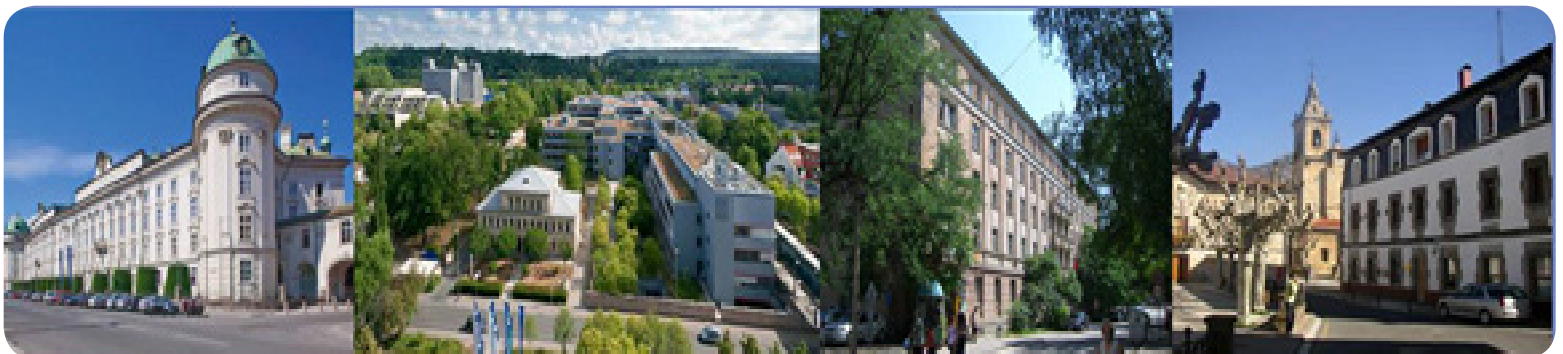
# Newsletter

## OrbEEt at a Glance:

OrbEEt aims to establish a holistic organizational energy performance framework build on top of contemporary and standardized energy performance rating practices by incorporating business and behavioural information through the fusion of three worlds:

- **Building Operational Rating**
- **Business Process Modelling**
- **Organizational & Behavioural Change**

OrbEEt aims to establish a trusted Systemic Enterprise Operational Rating framework that will present the ability for real time building monitoring, continuous measurement of the impact of different activities on the overall building energy performance and most importantly, for timely, relevant and personalized feedback towards energy efficiency.



The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 649753

# OrbEEt Partners



OrbEEt consortium partners present to your attention the third OrbEEt project newsletter. The intent of this newsletter is to provide brief updates regarding the project execution. Highlights in this issue include an overview of the OrbEEt's activities performed in the present third semester of the project implementation:

- Technical activities
- Consortium meetings
- Pilot Sites visits
- Awareness Workshops
- Awareness Material

If you want to learn more about the subjects addressed in this newsletter you can go to our website which is listed below. To keep up with our daily activities you can follow us on our social media platforms which are to be found below.

## Check out the latest news



[www.orbeet.eu](http://www.orbeet.eu)



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# Technical Progress

After energy audits were done for all pilots and three of them are already visited, their specifics were defined and accordingly the appropriate type of and number of sensors/meters and gateways were defined for the OrbEEt WSN Topology. Also, the OrbEEt Information Management Layer was defined with its specific components, elements and external interfaces. The Alpha testing of the WSN devices and IM layer was performed in HYPER-TECH lab premises. Different scenarios were evaluated and the results will serve as basis for the implementation in the pilot sites. Another important task completed was the creation of a software installation manual to serve the pilot sites' users.

At present the devices installation is finished in Asparrena pilot site and the software installation is ongoing. This will be the pilot site to first launch the OrbEEt framework and serve as an example to the others. Hardware and software installation are in progress in Pernik pilot site and must be finished by the end of August. The other two pilot sites already have some of the devices available and will also proceed with the installation the soonest.

The work continues on the development of ambient user interfaces for the visualization of eDECs, the intranet portal, the game and the enhanced systemic enterprise operational rating core software.

## 3rd Consortium Meeting

OrbEEt project consortium partners met in Innsbruck hosted by The Imperial Hofburg on 17th - 18th February 2016 to attend the third Consortium Meeting. The meeting was aimed at tracking the progress of the project - technical developments and achievements, deliverables and tasks in progress, delays and risks. Of course problems were discussed and suggestions made. The pilot sites energy auditing was presented and an initial notion was given on the energy capturing and monitoring devices. The software part for the collection of energy data was explained as well as the three user interfaces - in-office displays, intranet portal and game. There was a presentation of ADONIS tool and video shown.

Mr. Hauser, the responsible person for Hofburg Innsbruck from the Federal Office for Protection of Monuments attended the meeting and the project objectives and main roles of the consortium partners were presented.

## 4th Consortium Meeting

The fourth Consortium Meeting was held in Pernik on 02-03 June 2016 hosted by the town Municipality. Again, the general progress of the project was discussed, the status of the deliverables and milestones. The work carried out with the business process modeling for each pilot was explained. The devices that are going to be installed were presented and a plan for their delivery, installation and calibration was made.

The steps of the software installation were explained and the OrbEEt information management layer. Also, there was a presentation of the SEOR characteristics. An interesting part of the meeting was the showing of a short video of the game as well as the initial look of the intranet portal. The game will be connected with the real life actions of the players as proposed during the Third Consortium Meeting.

## Pilot Sites Visits

During the Third Consortium Meeting, the partners visited the Imperial Palace Innsbruck. They made an inspection of the pilot site accompanied by Mr. Grund Martin. During this visit, the type and position of each sensor in all the pilot rooms were indicated. It was decided some of the rooms to be removed from the evaluation study due to their minor importance.

During the Fourth Consortium Meeting, a check was made for the Pernik pilot site. The position of the test rooms was examined so that the devices positioning can be properly defined. Some changes in the rooms were settled.

# Awareness Workshops

The first awareness workshop was carried out during the Consortium Meeting in Pernik. Most of the people working in the Pernik Municipality pilot rooms took part and the Bulgarian partners explained to them what the OrbEEt project is about, its objectives and problems addressed as well as the technologies that are going to be used and the devices people are going to see in their workplaces. Also the business framework and application scenarios were described and what is expected from the users so that they be aware and willing to participate.

The second workshop happened in Innsbruck on 14 June 2016 with the people form Imperial Palace Innsbruck pilot site. The focus of this workshop was on the presentation of the status of the project (mainly the status of the software layer-IML responsible for gathering data from pilot premises). Screens from the alpha testing lab environment in HYPERTECH premises were defined. In addition, BOC presented the additional functionalities offered by the tool, focusing mainly on redefining the organizational processes in premises.



# Awareness Material

OrbEEt training kit was created under Task 4.1. to serve as a presentation and educational tool for the end users working in the pilot premises and be used to rise their awareness of the project and its aims. This kit was translated in German, Spanish and Bulgarian to be easy for the users and the workshops to be carried out in their native languages.

This block contains three screenshots of awareness material slides. The top-left slide is in Spanish, titled 'AGENDA' and 'SOBRE ORBEET', with a Spanish flag icon. The top-right slide is in German, titled 'AGENDA' and 'ÜBER ORBEET', with a German flag icon. The bottom-left slide is in Bulgarian, titled 'СЪДЪРЖАНИЕ' and 'ЗА ORBEET', with a Bulgarian flag icon. The bottom-right slide is in English, titled 'AGENDA' and 'ABOUT ORBEET', with a European Union flag icon. Each slide lists various agenda items such as 'CONCEPTO AND METODOLOGIA', 'CRONOGRAMA Y PLAN DE TRABAJO', 'EVALUACIÓN PILOTO', 'DATOS Y CIFRAS', 'CONCEPT AND METHODOLOGY', 'TIMELINE AND WORKPLAN', 'PILOT EVALUATION', and 'FACTS AND FIGURES'.

This block contains two slides. The top slide is titled 'AWARENESS AND EXPECTATION' and includes a placeholder for location, date, and presenter, along with logos for various partners like FAU, Coventry, and Solintel. The bottom slide is titled 'INTERACTION MODEL WITH ORBEET TEAM' and features a diagram showing the interaction between the 'ORBEEt Project Team' and the 'Pilot Project Team'. The diagram includes a flow from 'PREPARE' to 'RUN' to 'EVALUATE'. Text on the right explains the 'First Level' (Pilot End-User) and 'Second Level' (Local Pilot Project Team) interactions, and lists 'What to report/discuss?' such as issues with tools, improvement suggestions, and problems. An attention note states: 'ATTENTION: Please keep in mind that this is research and innovation!'.