H2020 PROGRAMME

H2020-EE-2014-2-RIA Research & Innovation Action







Organizational Behaviour improvement for Energy Efficient administrative public offices

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 649753

ΑΒΟυΤ

ORBEET is the answer to the challenges and factors that hinder the capabilities of current energy performance and efficiency triggering frameworks. ORBEET energy efficiency will be achieved through progressive improvement of organizational efficiency, while energy performance will be optimally balanced with business performance and occupant preferences.

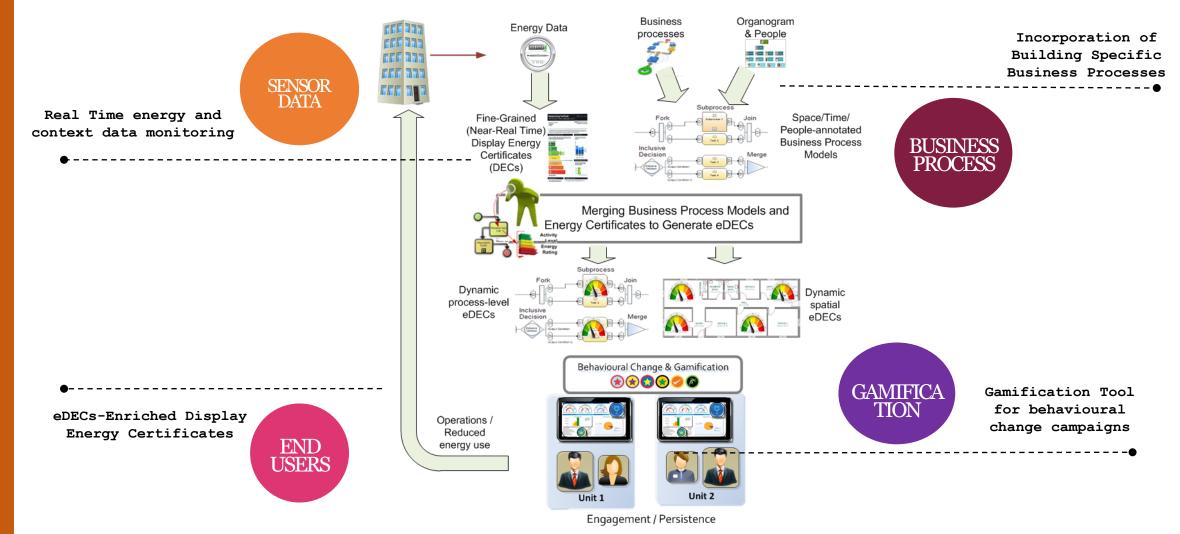
The Problem The Need The Solution The Services

- Huge gaps between Asset Rating and Actual Operation in Building
- Impact of occupants' behaviour on the energy performance of buildings is not addressed
- Inability of current techniques to trigger end users for energy efficient operation
- Holistic energy performance optimization framework is required
 Improved Operational Rating Models to address the actual conditions in tertiary buildings
- Precise allocation and real-time assessment of detailed performance contributions of individual critical building components
- Real-time building performance management addressing also mainly business
 processes

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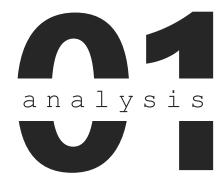
THE CONCEPT

OrbEEt aims to leverage existing standards and methods of Building Operational Rating (OR) to deliver a mechanism for real-time extraction and calculation of detailed, fine-grained, dynamic parameters and subsequently provide continuous feedback on the present value estimation of the Building Operational Rating.



WORKPLAN

ORBEET activities are organized and structured in a way that promotes innovation and end-user involvement throughout the whole project duration. User acceptance and uptake is the ultimate goal of any innovation



The diagnostic and analysis phases aims at establishing very early in the project the main foundation on which the remainder of the project will be based.



The Design phase will provide the overall technological and functional specifications of the **ORBEET** framework, along with the architectural design and will evaluate the degree of availability of technological solutions



Building upon the main outcomes and guidelines of the Design Phase, encompass the parallel development and integration activities of the **ORBEET** project

This phase will be run almost in parallel with all design and development activities, and will focus on training, fine-tuning and validation of the ORBEET integrated framework

deploy

business

Dissemination and Communication activities along with Business Innovation Planning for commercialization of ORBEET Solution

ΤΙΜΕΙΙΝΕ

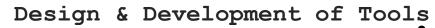


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Requirements Analysis

End-User & Business Requirements and Energy Performance Assessment Specifications. Definition of end users needs towards the extraction of high level system architecture



Design the conceptual architecture of the ORBEET framework, define the functional specifications of the individual components. Development of individual components that consist of ORBEET Framework

Apps Development & Integration

Development of end users applications and delivery of integrated ORBEET engine to provide support for energy behavioural change



Pilot Validation & Testing

The Innovative ORBEET solutions will be validated in reallife conditions over an extensive pilot roll-out period in a variety of buildings in four dispersed geographical areas (Spain, Bulgaria, Germany & Austria).

ΡΙΙΟΤΟ

Evaluation holds a significant position in ORBEET, since it comprises the means towards validating cost-effectiveness, techno-economic feasibility and the impact generated by the project. ORBEET solutions will be validated in real-life in three dispersed geographical areas addressing the needs of different system stakeholders.



THE CONSORTIUM



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