



# Welcome to QUANTUM project

## QUANTUM project

The estimated average gap between calculated and actual energy performance of the European building stock is 25% for energy performance and 1.5% for comfort performance (as scored by building occupants). A considerable body of research has shown that poorly commissioned and operated building management systems are often responsible for this gap, generally caused by the lack of appropriate and coherent **Quality Management Systems (QMS)** for building performance.

To tackle these challenges, within the next four years the project [QUANTUM](#) will develop and demonstrate **pragmatic services and appropriate tools** with high replication potential supporting QMS for building performance in the design, construction, commissioning and operation phases.

The core mechanism is to “**design for testability**” by specifying transparent performance targets with cost effective testing methodologies. The project will apply three innovative ICT-driven tools to enable effective quality management in all relevant services within the building life cycle.

The tools will be demonstrated in a representative set of typical European buildings from seven countries in order to support the market uptake of the tools and services.

## June 2016

### Launch of QUANTUM project website, 2<sup>nd</sup> of June 2016

QUANTUM website was launched in June 2016. The website contains useful information about project, including the project deliverables and related events. Check it out [here!](#)

### Workshop at CLIMA 2016, Aalborg, 24<sup>th</sup> of May 2016

QUANTUM organised its first [workshop](#) at CLIMA2016, the 13<sup>th</sup> REHVA World Congress. This workshop informed participants about the potential of QM and presented the three innovative ICT tools. The [presentations](#) were followed by interesting debates, and QUANTUM organisers collected feedback from the audience through an on-site poll.

### QUANTUM paper published on Energies journal, 7<sup>th</sup> of May 2016

The journal “Energies” has published the scientific article [“A Review of Systems and Technologies for Smart Homes and Smart Grids”](#) written within QUANTUM project. This review article explains the concept of the smart home and the advent of the smart grid, then goes on to investigate technologies and systems for smart homes today available on the market, pointing out their advantages and disadvantages.

### Performance Test Bench tool presented at 6<sup>th</sup> UNICA GREEN Workshop, Rome, 2<sup>nd</sup> of May 2016

The testing methodology behind the software was highlighted during the presentation [“Climate neutrality in the building sector of universities: Potentials and success factors”](#) at the UNICA (Network of Universities from the Capitals of Europe) GREEN workshop. The tool will be developed further by Synavision within the QUANTUM project.





## QUANTUM project Kick-Off, Berlin, 16<sup>th</sup> of January 2016

Within four years QUANTUM project will apply to a representative set of typical European buildings three innovative ICT-driven tools: HPS/NG9 (by Energy Team SPA, Italy), Performance Test Bench (by Synavision GmbH, Germany) and Comfortmeter (by FACTOR 4 BVBA, Belgium).

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