

QUANTUM 3rd Newsletter

What is QUANTUM?

Poorly commissioned and operated building management systems are often responsible for a notable part of the gap between calculated and actual energy performance of the European building stock, and this can often be caused by the lack of appropriate and coherent **Quality Management Systems (QMS)**.

To tackle these challenges, EU funded project [QUANTUM](#) is developing and will demonstrate pragmatic services and appropriate tools that are suitable for widespread use. These **services and tools are expected to support QMS** for building performance in the design, construction, commissioning and operation phases.

For more information visit [QUANTUM website](#).

PRACTISING QUALITY MANAGEMENT

Comfortmeter survey at Czech Technical University in Prague (CZ)

In November and December 2016, Comfortmeter surveys were conducted in four buildings of Czech Technical University (CVUT) in Prague. It was the first time at CVUT that so many people were asked to report about perceived Indoor Environmental Quality. For the sake of testing variety, the academic staff working in an old building for the 70's, in a retrofitted building from the 70's, in a new naturally ventilated glazed building and in a nearly Zero Energy Building, was involved. Results spotted specific problems and suggested customized building management actions for each analysed building.

SPREADING THE WORD OF QUALITY MANAGEMENT

Word spread

CVUT @ Trade Fair Modern Heating (Moderní vytápění) 2017, February 2-5, 2017, Prague (CZ)

The "heating and saving of energy festival" is focused on modern heating technologies, fireplaces, stoves, renewable energy sources and thermal insulation. During its accompanying educational program, QUANTUM partners from the Czech Technical University in Prague (CVUT) introduced the project to an audience of professionals during their lecture about "Indoor Environmental Quality in Low Energy Buildings".

IGS and e7 @ What may change? Planning 2017-2050, BauZ! International Congress February 15-17, 2017, Vienna (AT)

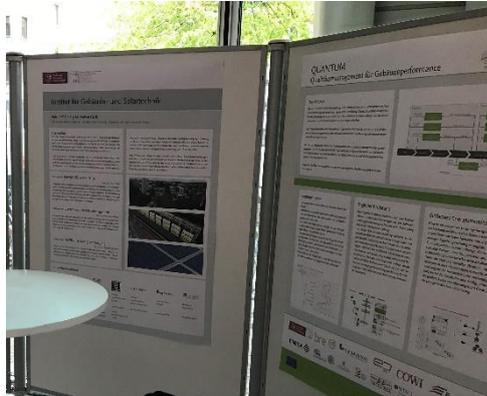
At the Vienna Congress on sustainable buildings: BauZ!, the audience from research and industry was informed about the work within QUANTUM. Within a breakout session with the topic "Maintaining Buildings", Manuel Krempf from e7 was teaching participants about Quality Management in building maintenance. At the session "Measuring success, ensuring quality", Jan Mehnert, from Institute for Building Services and Energy Design (IGS), was invited to talk about the Digital test rig, enhancing Quality management within buildings and technical installations. A review to the event can be found at <http://www.bauz.at/en/review-of-bauz-2017/>

REHVA-QUANTUM @ BUILD UP Webinar „Quality management within building commissioning“, April 27, 2017, BUILDUP portal

QUANTUM, REHVA and BUILDUP successfully held a webinar on solutions and strategies for quality management in new buildings, with a specific focus on the Building Commissioning Process. Ole Teisein from Swegon, Dan Rossister from the Building Research Establishment (BRE) and Stephan Plesser QUANTUM project coordinator (from IGS and Synavision) enlightened the audience with key facts and figures about the role of commissioning in quality management, the strategic importance of Building Information Modeling in Commissioning and the objectives and tasks of QUANTUM respectively. Find the link to the recording of the webinar [here](#).

IGS @ Berliner Energietage 2017, May 3-5, 2017, Berlin (DE)

The IGS team, coordinator of QUANTUM, presented the project during the workshop "Einfach besser bauen: Konzept * Qualität = Nutzerglück" (Simply build better: Concept * Quality = User Success). For the most curious attendants, the Institute for Building Services and Energy Design (IGS) also provided additional information about the project at their booth.



CVUT @ Symposium Greenway, May 11-12, 2017, Brno (CZ)

The Greenway symposium is open to all the actors in the process of design, construction and operation of buildings, reporting the latest requirements, trends and technologies from these fields. QUANTUM partners from CVUT gave to its participants an overview of project within their speech "Legislation and technical solutions of the nZEB in 2017".

Energy team @ Viessman designer Conference 2017, May 24, 2017, Modena (IT)

Energy team partners were invited to give a speech at the Viessman designer conference 2017, whose key topic was "Smart monitoring, control and energy efficient systems and solutions". There, Energy team partners introduced QUANTUM principles and tools to an audience of 500 professional HVAC designers. More info about the event can be found [here](#).



Word to be spread

UoA @ SET 2017 July 17-20, 2017, Bologna (IT)

SET 2017 is a multi-disciplinary international conference on sustainable energy sources and technologies that provides a forum for the exchange of latest technical information, innovative developments and high-quality research results. Hoping to inspire its participants with the QUANTUM „philosophy“, the partners of University of Athens (UoA) will present there the evaluation of the indoor performance in 10 office buildings in Greece, based on users' perception collected through the Comfortmeter survey tool.

TESTIMONIALS OF QUANTUM PARTNERS

Ekodoma: how QUANTUM is impacting our business

ABOUT - [Ekodoma Limited group](#) is an engineering consultancy practice with its permanent office in Riga, Latvia, operating in the Baltic countries since 1991.

“Changes in regulations are motivating large enterprises and large energy consumers to draw more of their attention to energy consumption and energy management. These changes in regulations are due to adaptation of Energy Efficiency Directive 2012/27/EU. Due to these changes, large enterprises and large electricity consumers have to carry out energy audits or certify energy management systems. These circumstances provide an opportunity for enterprises to take on energy inventory and better understand energy flows in their enterprises including their buildings. Currently we are working with several potential project partners who are interested in testing Quantum project tools, which could help them to fulfil national regulation requirements which are adapted from Energy Efficiency Directive, as well as improve comfort by optimising building management systems. Currently we are meeting with different entities, who have different roles in building management. Several potential partners have shown interest in taking part in the project and test Quantum project tools in real buildings to improve the operation of building management system and achieve energy savings. Particularly there is a big interest in optimising BMS operating parameters, to progress towards technically possible boundaries within respective limitations of the system.”