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*ALL ABOUT THE PROJECT STATUS AND RESULTS*

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# PROJECT NEWSLETTER

## Innobuildings 2017 Together Mid-term Conference

„From 2020 we have to half our emission in every ten years” said director Csaba Kőrösi at Innobuildings 2017 Conference.

Zoltán Pokorni, mayor of Hegyvidék opened the event emphasizing that international projects like Together are vital to help residents realise their inner potential in the climate change adaptation process. The speakers proved throughout the day how can we reduce in theory and practice the energy consumption of buildings with a combination of demand side management measures and an innovative smart metering system. The details of the applied program, techniques and tools, and the possible obstacles of the implementation was presented in a roundtable discussion with the representation of all participating institute. Nevertheless, the conference was much more than just the collection of frontal presentations. During the breaks, participants could experience what gamification means as they walked around the energy efficiency market, while they wrote energy commitments to their future, and they could also get familiar with the smart meters. The conference was closed with a visit to the innovative heating system of the MOM Cultural Center.



## Integrated Smart Toolkit (TOOLS)

Partnership of Together, with University of Maribor as the Work-Package nr. 2 (WPT2), have developed Integrated Smart Toolkit. WPT2 is devoted to increase Public Administration's (PAs) skills to manage the complexity of their managerial system through an Integrated Smart Toolkit (TOOLS), combining existing and new tools related to 3 OUTPUTS:

1. Toolkit containing 3 Energy Management System models
2. Toolkit containing 4 Integrated Financial and contracting Tools
3. Toolkit containing 3 Demand Side Management tools

TOOLS are addressed mainly to owners, managers and users of buildings for public use, educational use and institutional ones. They serve, together with the trainings, to build capacity and to encourage PAs to adopt managerial EE solutions, preferring a holistic vision of the building instead of an isolated one. They are proposing streamlined solutions to be firstly tested in around 85 pilot buildings and to be later used in other buildings identified in the Regional Action Plans.

For better dissemination purposes, TOOLS are free available on project website and project library in two different layouts: one with official Interreg programme template and the other with more attractive design. Also, the most important TOOLS will be available in project partner's native languages, depending on the national or regional target group's requirements.

**For more information please contact:**

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Official website: <http://www.interreg-central.eu/Content.Node/TOGETHER.html> - Facebook page: [togetherprtv2016](https://www.facebook.com/togetherprtv2016)

## What is Smart Metering System?

Project attempt to reach energy efficient goals without major investment and retrofitting, using a combination of the latest scientific methods from the field of behavioural demand side management (DSM) sciences and an innovative smart metering system (SMS).

In the framework of project, in 73 out of 85 pilots SMS systems will be implemented to VERIFY the effectiveness of the DSM measures undertaken by punctually measuring, through the available system (with its various components), the resulting consumptions and the SAVING achieved. This way the maximum efficiency of undertaken measures will be assured!

## Energy Info point as a part of SMS

The energy info point is a desirable component of such a system, since it allows a direct connection with the users of the building. Normally it is just a monitor, which displays information about annual, monthly, daily and current consumption of all energy consumption and energy savings. It can be a powerful tool to impact users' behaviour. Normally it is placed in a building where most of the people can see it, thus this way the maximum impact can be achieved. In the Together's pilot cluster 79 Energy Info Points will be used. With this measure, partners will try to achieve the maximum effect in the implementation of SMS. In the picture to the right, the Treviso's energy info point is shown. It is for users very simple to understand and react on displayed data, because of usage of simple characters (smileys) and data!

## DSM measures and Technology?

SMS provides the building players with the concrete possibility to have a direct and immediate feedback of the incidence of their behaviour and consumption practices on energy consumption.

Feedback systems based on SMS devices are therefore strategic in Energy Efficiency programmes based on DSM measures and users' involvement. Users need appropriate frames in order to determine where their energy consumption is excessive and a smart metering system can provide them with a direct feedback visualized on monitors. It is widely demonstrated that indirect feedback/manual measures are themselves a way to involve users and engage them in adopting proper behaviour.

On the other hand, smart metering devices can provide an immediate feedback, reliable, comparable data and require less working time than an energy monitoring system based on manual registration for an energy manager of the building.



## TOGETHER pilot cluster in numbers:

	LP Treviso IT	PP2 EAV CZ	PP3 UM SLO	PP4 ZAGREB HR	PP5 PNEC PL	PP6 PAKS HU	PP7 HEG HU	PP8 SIEA SK	TOTAL
Number of Pilot buildings	20	10	7	12	9	11	9	7	85
SMS investments	16	5	4	12	9	11	9	7	73
Measured parameters:									
- Heat	✓	✓	✓	✓	✓	✓	✓	✗	7/8
- Electricity	✓	✓	✓	✓	✓	✓	✓	✓	8/8
- Fuel	✓	✓	✓	✓	✗	✓	✓	✓	7/8
- DHW (water)	✗	✗	✓	✓	✗	✗	✓	✗	3/8
Distant monitoring (web-based system)	✓	✓	✓	✓	✓	✓	✓	✓	8/8
Number of Energy Info Points	20	5	4	12	9	11	11	7	79
Communication Type of Energy Info Points*	one way	one way	one way	one way	one way	one way	one way	one way	one way
Total investment value [€ incl. VAT]	89.919,80	11.000,00	49.866,74	60.663,07	58.500,00	50.660,00		58.800,00	426.678,61
Investment per pilot building [€ incl. VAT]	5.619,99	2.200,00	12.466,69	5.055,26	6.500,00	4.605,45		8.400,00	6.223,55

\*Energy Info Point can have two types of communication with users:

"one way" - where users can just observe information, and "two way" - where users can give their feedback eg. LCD touch screen solution based on proper interface