



Dear Sir/Madam,

As we approach the mid-point of the TOPAs (Tools for Continuous Building Performance Auditing) project, we are pleased to update on all the exciting developments that have happened in the past months.

The TOPAs system is coming together, with the successful integration of all our different components into one consolidated platform, which is truly greater than the sum of its parts.

Our main accomplishments include, among others:

- Continued integration of TOPAs components, into a prototype of the proposed TOPAs solution. The TOPAs functionality includes:
 - Building Management Systems Abstraction layer
 - Energy Auditing Expertise
 - Design support for Energy Efficient Systems
 - Model-based performance prediction
 - Distributed model predictive control
 - Automated fault-detection and diagnostics
 - Occupancy and behavior modeling
 - Air Quality monitoring
- **TOPAs project Brochure** contains a detailed overview of the project, the tools developed within the project framework and the initial outline of the project exploitation potential.
To download the brochure, [press here](#)
- **1st pilot site installation.**
A Press Release was published, summarizing this milestone.
To download the PR, [press here](#).
- The deliverable – **System Prototype Integration and Validation Execution Report**, published on May-1st, 2017 – presents the achieved system integration and validation status (Prototype phase) and establishes the basis for the TOPAs full-system integration and validation.
- **The prototype Project Demonstration** will be held at the mid-term project Review in Brussels, Belgium.
- **Definition of the TOPAs Business Model.** The initial Business Models for the TOPAs solution and its subsystems was outlined. TOPAs' approach enables a customized, tailored solution, making TOPAs especially relevant and accessible to a variety of Energy Efficiency markets and applications.
- **Successful achievement of 3rd Project Milestone** The first system prototype is ready for the field trials and validation.
To download the TOPAs test sites description, [press here](#).





In addition to the substantial progress made in the development of the project, TOPAs team has also published several scientific papers which were presented at the following events:

- **Dresden's 14th Researchers Night, June 2016, in Dresden, Germany**
The TOPAs tool for the Automatic Engineering of Room Automation Systems (AUTERAS), which has been developed by the TU Dresden, was interactively presented, yielding individual feedback from the audience of potential end-users. To download the English version of the event's report, [press here](#). To download the German version of the event's report [press here](#).
- **Annual Conference of the IEEE Industrial Electronics Society on October 2016, in Florence, Italy**
TOPAs hosted a Special Session on Sustainable Cities: Tools & Methodologies for Managing Energy Performance in the Built Environment. Papers presented:
 - [Coordination Scheme Editor for Building Management Systems](#)
 - [Coordination Middleware for Secure Wireless Sensor Networks](#)
 - [Reliable Control through Wireless Networks](#)
 - [Open BMS – IoT Driven Architecture for the Internet of Buildings](#)
- **The SystemSim workshop in the ICWMC Conference on November 2016, in Barcelona, Spain.** Paper presented:
 - [Energy Management of a set of sensor nodes at application level using the LINC Middleware.](#)
- **The ACM International Conference on Embedded Systems for Energy-Efficient Built Environment – Buildsys, on November 2016, in Palo Alto, California, USA.** Papers presented:
 - Brick: [Towards a Unified Metadata Scheme for Buildings](#)
 - Brick: [Portable Queries Using the Brick Schema for Building Applications](#)
- **The ARM Workshop in the ACM/IFIP/USENIX Conference on December 2016**
 - [Combining Transactional and Behavioral Reliability in Adaptive Middleware](#)

We invite you to visit the "[News & Events](#)" section at where you'll find the links to the main Project events.

In addition, the list of scientific papers is available [here](#), and the public deliverables are available [here](#).

Sincerely yours,
TOPAs Consortium.
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