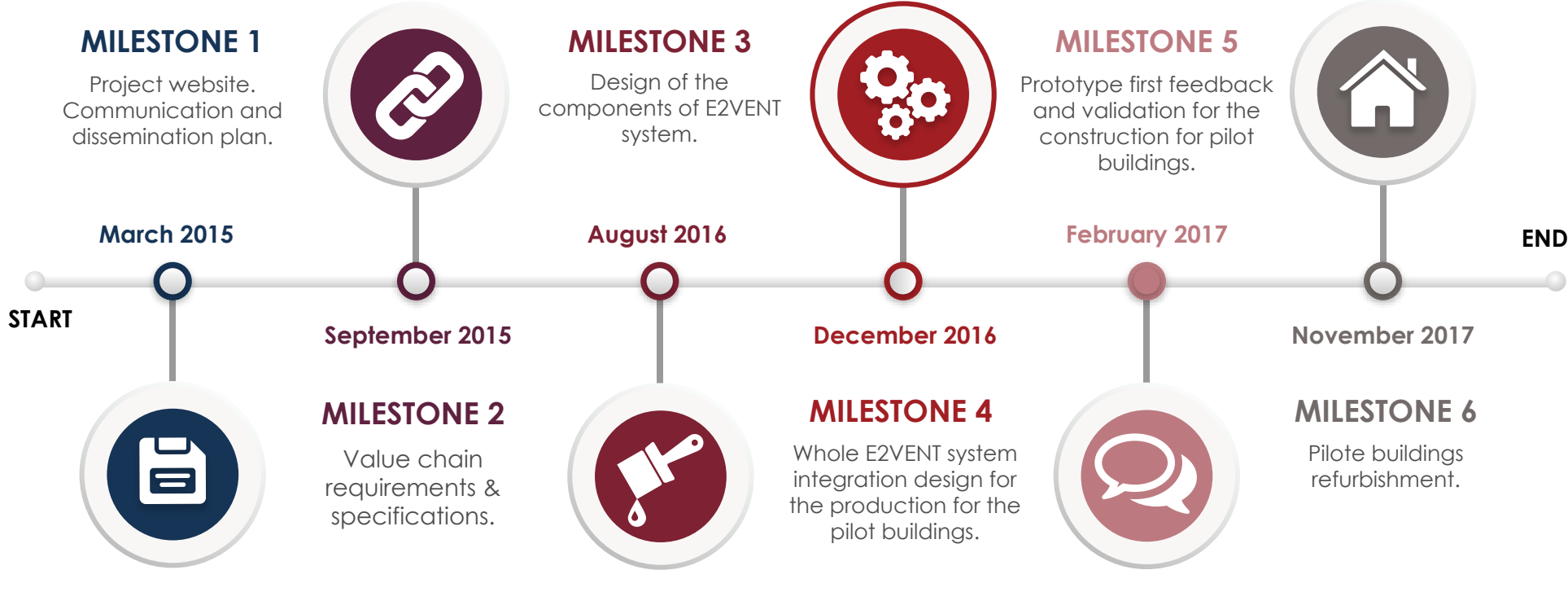


Dear Reader,  
we are proud to present you with the third E2VENT newsletter, which was created to provide you with an overview of the project's progress. The E2VENT project has reached a milestone of 25 months and we would like to share with you the latest news regarding the advances that were made in the past months and inform you in regards to the plans for the upcoming period.

## Energy Efficient Ventilated Façades for Optimal Adaptability and Heat Exchange enabling low energy architectural concepts for the refurbishment of existing buildings

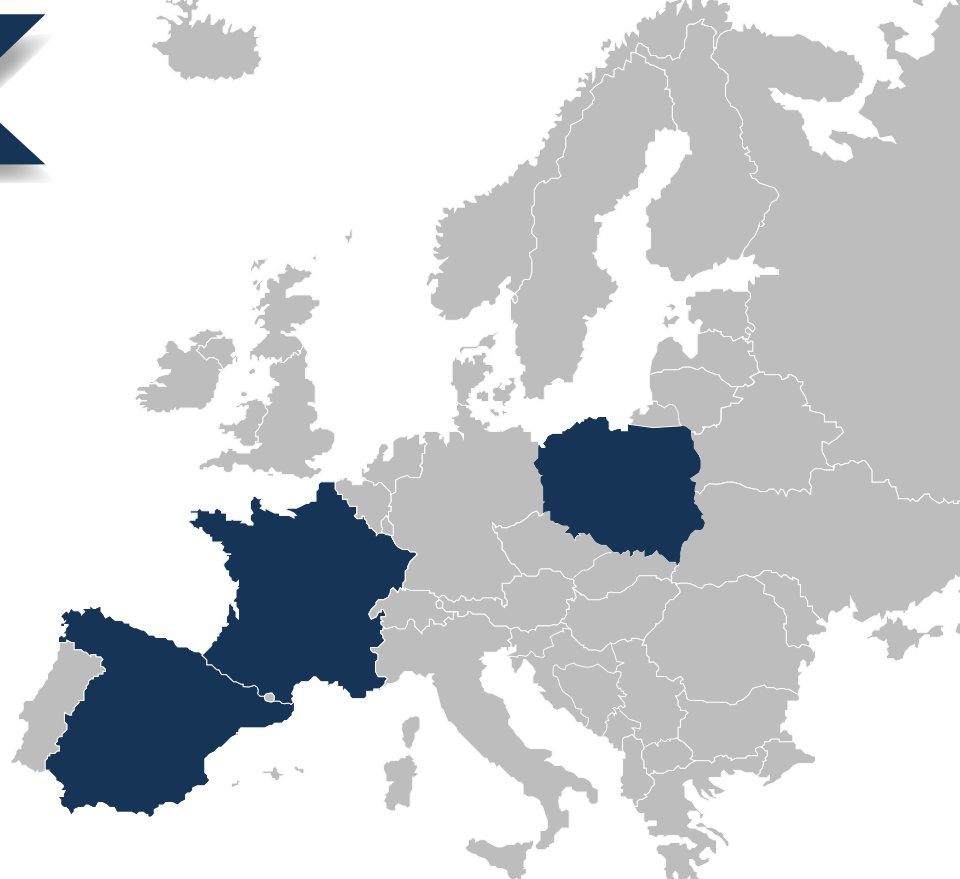


### SMHRU PROTOTYPE TEST



The SMHRU (Smart Modular Heat Recovery Unit) is the heat recovery unit that allows the air renewal while limiting the thermal losses. The SMHRU has been designed and then manufactured mainly by TECNALIA and ELVAL COLOUR. The plates have been purchased from an external manufacturer. The first SMHRU prototypes arrived in the TECNALIA facilities in April 2016 and were successfully tested on location.

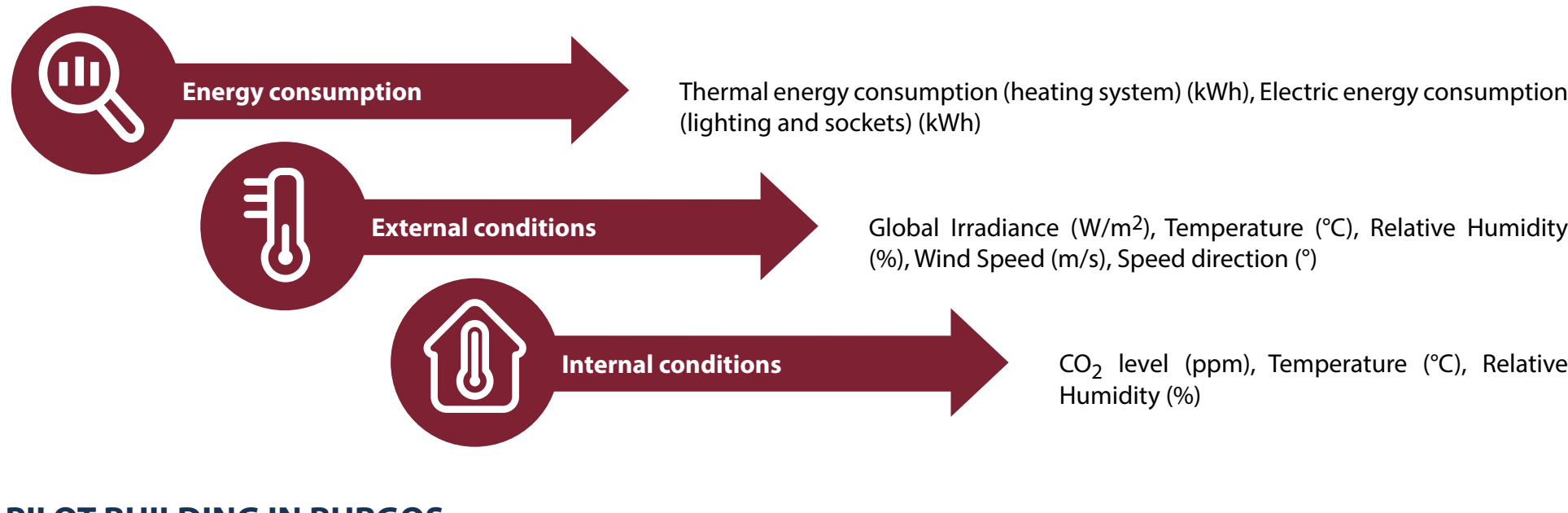
### DEMO-SITE PROGRESS



The validation of the E2VENT technologies will be demonstrated through their integration and execution in two different demo buildings under different climatic areas in Europe (continental and oceanic). The installation and the commissioning of the monitoring system has been already performed and it has been gathering data which is periodically followed up on and assessed.

In order to assess the performances of the E2VENT system, the two buildings that will be monitored over the duration of one year. The data collected after one year of the monitoring period will serve as a basis for the assessment and verification of the operation of the developed E2VENT technologies which were integrated into the demo building after renovation.

#### The building monitoring will include measurements of:



### PILOT BUILDING IN BURGOS

The building to study is located in the city of Burgos in the northern part of Spain. It is a part of a set of blocks, which were built in 1880 and served as the military hospital. Nowadays, these buildings belong to the university and they are designed to be used as classrooms.

The proposed renovation for Burgos will integrate all the technologies developed in the project (Innovative ventilated façade, SMHRU, LHTES and BEMS – the building energy management system).



### PILOT BUILDING IN GDANSK

The building in Gdansk, Poland, which the technology will be tested on is a multi-story residential building constructed in 1950.

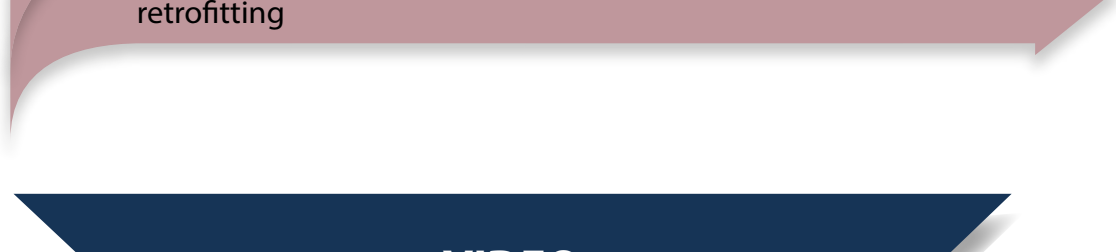
The proposed renovation for Gdansk will integrate all the technologies developed in the project but the LHTES as there is no need for cooling in this region of Europe (Innovative ventilated façade, SMHRU, BEMS).



### THE TEST BENCH IN ANGLÉT

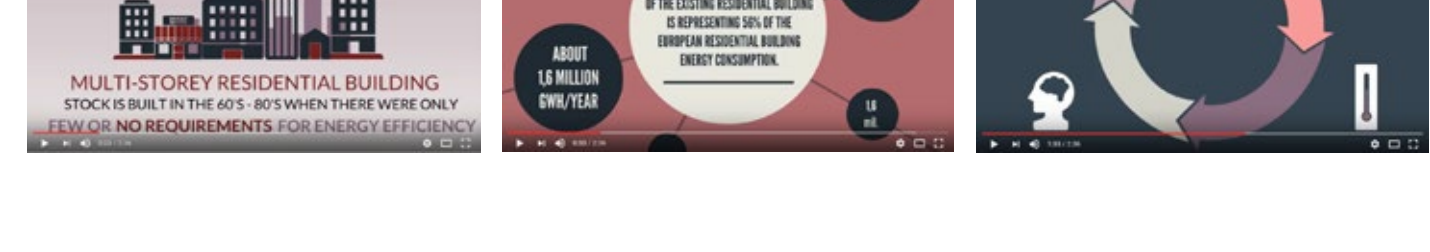
The test bench in Anglet, France is currently being refurbished and the E2VENT technologies will be installed in it in February 2017. Prior to the demonstration on real buildings, and after the validation of the developments that were made in a laboratory conditions, it will be necessary to install the prototypes on an external platform in order to evaluate their functionality and to measure their efficiency. This external platform is a facade test bench and offers the opportunity to compare the performances of three types of retrofitting.

The E2VENT solution will be compared to:



### VIDEO

A video on the E2VENT project is available for you to learn more about the project. Feel free to watch it, share it and comment on it.



<https://goo.gl/AGP8lc>

### PARTNERS



The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 637261

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[www.e2vent.eu](http://www.e2vent.eu)



### UPCOMING EVENTS

#### GENERAL MEETING

The next general meeting will take place in **Anglet, France** on the **22<sup>nd</sup> and 23<sup>rd</sup> of February**. This meeting is the opportunity to evaluate the project progress. It will take place few days after the test bench retrofitting and will bring about a workshop concerning any needed redesign concepts for the prototypes based on the feedbacks received. Various other workshops will be conducted in order to deal with the retrofitting of the pilot buildings in Gdansk and Burgos.

During the E2VENT general meeting, a video showing the demo sites, interviews and projects advances will be filmed. The outcome of the filming will be the new project video.

#### BUILDING FAIRS – Brno, Czech Republic

The **E2VENT project** will be exhibited by **FENIX TNT** at the Building Fairs in Brno, Czech Republic. The event will take place on the **26<sup>th</sup> – 29<sup>th</sup> March, 2017**.

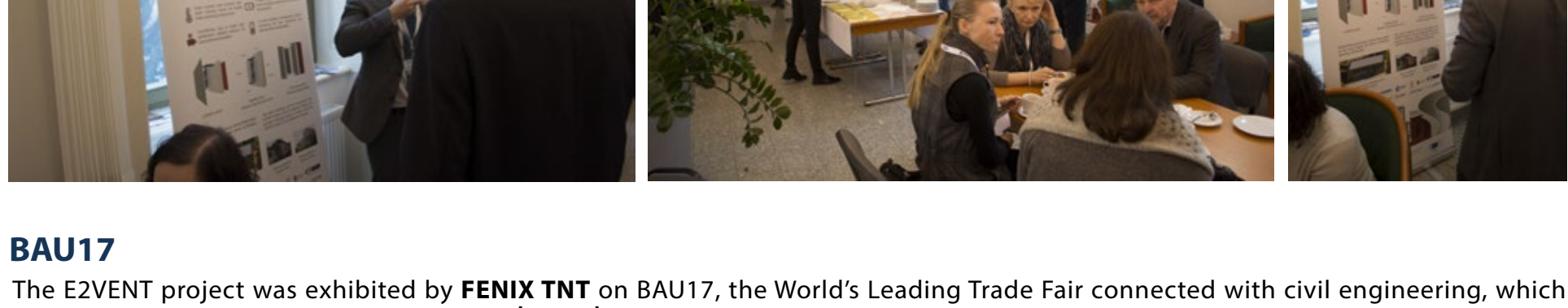
Fairs in Brno are for unique presentation of all aspects of housing and house constructions, building management services, technical solutions, equipment, interior design and furniture. Visitors can learn about the latest developments, trends, products and services in various fields.

### PAST EVENTS

#### BRIMEE CONFERENCE

The **E2VENT project** was exhibited during BRIMEE Conference organized by **FENIX TNT**. The conference took place on the **25<sup>th</sup> January 2017** at the **Rectorate Brno University of Technology in Brno, Czech Republic**.

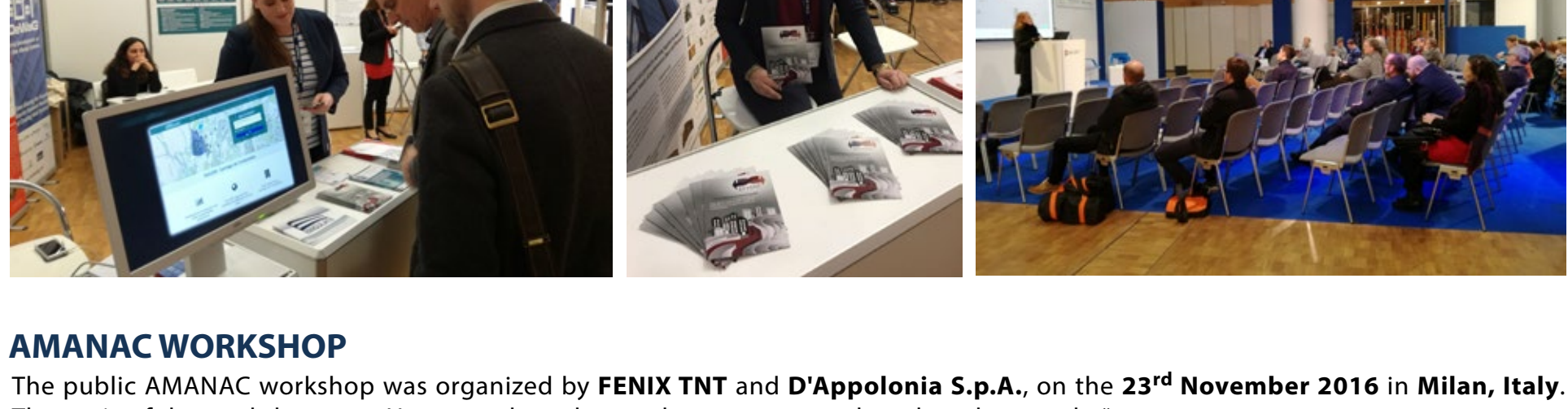
Participants of the conference had a chance to see presentations about various topics linked to green materials, new technologies and innovations in the construction sector. The event was concluded with the BRIMEE project demo site visit, where panels made of the Nano Crystalline Cellulose foam have been installed.



#### BAU17

The **E2VENT project** was exhibited during BAU17, the World's Leading Trade Fair connected with civil engineering, which took place in **Munich, Germany** on the **14<sup>th</sup> – 19<sup>th</sup> January 2017**. BAU presented a display of architecture, materials and systems for commercial and residential construction and interior design, for both new-build and R&M projects.

Every year around 2,000 exhibitors from more than 40 countries showcases a comprehensive range of materials and technologies for planning and construction.

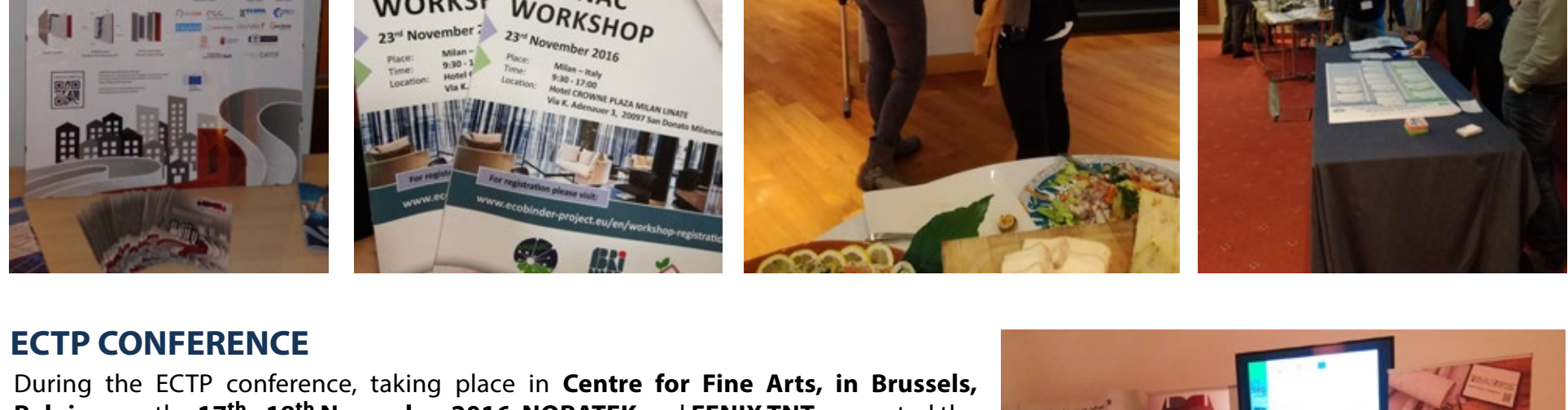


#### AMANAC WORKSHOP

The public AMANAC workshop was organized by **FENIX TNT** and **D'Appolonia S.p.A.**, on the **23<sup>rd</sup> November 2016** in **Milan, Italy**. The topic of the workshop was, "How to reduce the gap between research and market uptake".

The aim of the workshop was to identify and analyse drivers and barriers for the market uptake of innovative products or services, by involving key European stakeholders from the "Construction & Building value chain". The AMANAC WORKSHOP was organized under the aegis of Eco-Binder, AMANAC and BRIMEE projects which were also presented. The workshop was attended by both professional and general public, and by the project's partners representatives.

During this event, the E2VENT project was represented.



#### ECTP CONFERENCE

During the ECTP conference, taking place in **Centre for Fine Arts, in Brussels, Belgium** on the **17<sup>th</sup> – 18<sup>th</sup> November 2016**, **NOBATEK** and **FENIX TNT** presented the **E2VENT project**.

The aim of the ECTP CONFERENCE was to present and discuss current and anticipated innovation in the field of built environment.

High-level speakers from academia, industry and the European Commission introduced global schemes and visions from various stakeholders.

The aim of the conference was to address diverse issues under the five priority areas of the ECTP: active aging and design; energy and efficient buildings; heritage and regeneration; infrastructure and mobility; and materials and sustainability. During the event, booths and posters of innovative European projects were exhibited to the participants of the conference.



#### CONFERENCE SUSTAINABLE SYNERGIES FROM BUILDINGS TO THE URBAN SCALE

The Conference Sustainable Synergies from Buildings to the Urban Scale took place in **Thessaloniki, Greece**, from the **17<sup>th</sup> to 19<sup>th</sup> of October, 2016**, which was organized by one of the partners (AUTH). The **E2VENT project** was introduced by project coordinator **Antoine Dugué** and other partners of the project during the first day.

Sustainable Built Environment (SBE) Conferences 2016 Series are a bi-annual international conference series focused on developing High-Performance Built Environments. The conferences are promoted by international organizations such as CIB, iSBE, FIDIC and UNEP- Sustainable Buildings and Climate Initiative members.

