

NEWSLETTER #1



INTRODUCTION

P2ENDURE is a research project within the EU research programme “Horizon 2020” that stands for **Plug-and-Play product and process innovations for energy-efficient building deep renovation.**

P2Endure mainly aims to provide scalable, adaptable and ready-to-implement innovative Plug-and-Play prefab solutions for deep renovation of building envelopes and technical systems. The innovative solutions will be complemented with a proof-of-performance, which is based on pilot implementation and monitoring in 10 live demonstration projects representing deep renovation characteristics in all main EU geo-clusters. Through this aim, **P2ENDURE will ensure that the Plug-and-Play solutions are ready for EU-level market upscaling by 2020. The project demonstrates the most optimal solutions for deep renovation, which are characterized as affordable, eligible for rapid production and installation, as well as replicable, compatible and adaptable to the widest range of building types and geo-clusters across Europe.**



Project website: www.p2endure-project.eu



ACHIEVEMENTS

In the past three months we could monitor progress on the demonstration cases as well as on development of some of the P2ENDURE tools and products:

- [3D model](#) of the demonstration case, the kindergarten in Gdynia, in Poland based on a point cloud



- First BIM model and thermal imaging of the demonstration case in Tilburg, the Netherlands



- Finn Christensen from Invela spraying insulating mortar on the façade at the Lillebaelt Academy in Denmark (EAL) and [demonstrating the 3D printing tool](#) (developed by Invela and Robot-At-Work)



PUBLICATIONS

P2ENDURE is now visible on different web portals:

- [Build Up Portal](#) and
- [Italian portal "Info Build ENERGIA"](#).

Coming up: several publications are now "in the making". More details in the next newsletter.



ACTIVITIES

KICK-OFF MEETING IN DELFT

The Kick-off Meeting (KoM) of the P2ENDURE project took place in Delft, the Netherlands on the 27th -28th of September 2016. All the consortium partners were present (see picture right- Consortium partners).

The Kick-off meeting was a great opportunity to get to know the partners in the consortium and to review and clarify the main aspects written in the proposal. During the first day the demands and requirements were discussed and the demonstration cases presented. Through teleconferencing out EC Project Advisor – Janna Schönfeld gave a live presentation on the EASME programme and explained the most important financial and legal issues. During the second day the innovative technological solutions and the work packages were discussed.



The meeting was a very successful and inspiring start for an interesting and challenging research period that lies ahead of us. It gave an important insight into the project and defined the next steps for all the partners.

TECHNICAL WORKSHOP IN WARSAW

Following the Kick-off meeting in Delft, a technical workshop was organised in Warsaw (PL) on the 31st of January – 2nd of February 2017. The goal of this workshop was to reach preliminary agreements on the implementation of P2ENDURE solutions and tools in the real demonstration projects that are most likely to start in the near future, and to obtain detailed insight (technical, financial and time-wise) into the offered solutions. To this aim, all consortium members and few stakeholders were present. On the 2nd of January a site visit to the demonstration building (nursery) was organised by the Municipality of Warsaw (see picture below).



Visiting the Nursery building in Warsaw during the Technical Workshop



DISSEMINATION

Participation in events is a great method not only for dissemination purposes but also to exchange knowledge with experts in related professions and to build synergies and create inter-operability of information and products systems between relevant EU and national Research & Development (R&D) projects. The consortium partners represented P2ENDURE on various meetings, workshops and conferences the last few months:



- **EASME Contractors Meeting**, “Web-based and Electronic Tools for Improving Energy Efficiency in Buildings” in Brussels, Belgium on 18th of October 2016 (attended by Rizal Sebastian and Anna Gralka, DEMO Consultants);
- **Smart City Expo World Congress 2016** (SCEWC) in Barcelona, Spain on 16th November 2016 (attended by Margherita Scotto, D’Appolonia);
- **The 7th ECTP Conference**, “Innovative Build Environment” in Brussels, Belgium on 17th -18th November, 2016 (attended by Piotr Dymarski, Mostostal Warszawa; Gian Marco Revel, Università Politecnica delle Marche and Agnieszka Łukaszewska, Fasada);
- **AMANAC Workshop** in Milan, Italy on 23rd November 2016 (attended by Paola Robello and Daniela Reccardo, D’Appolonia and Gianni Cassera, Bergamo Technologie);
- **World Sustainable Energy Days** (WSED) in Wels, Austria on 1-3 March 2017 (attended by Marco Arnesano, Università Politecnica delle Marche);
- **H2020 MODER Workshop** “Design tools and processes for building renovation and energy transition at district level” in Utrecht, the Netherlands on 2nd of March 2017 (attended by Anna Gralka and Judith Wolswinkel, DEMO Consultants).

UPCOMING ACTIVITIES

NEXT CONSORTIUM MEETING IN DENMARK AT MONTH 6

The next consortium meeting will take place in March 2017 at the Robotic Valley in Odense, Denmark. The first meeting day will be organised as a joint workshop with the H2020 MORE-CONNECT project that develops prefabricated building elements for deep renovation towards nearly Zero Energy Building (nZEB). During this workshop day a visit to the Robot Lab is planned where more the partners can get more insight information on the 3D printing technology. For more information on the MORE-CONNECT project visit the website: www.more-connect.eu



EVENTS

In the next few months there will be few interesting national as well as international events organised where P2ENDURE will be introduced to a broader public.

- **Global Event for Digital Business** (CeBIT) in Hannover, Germany on 20-24 March 2017;
- **EU Sustainable Energy Week** (EUSEW) in Brussels, Belgium on 19-25 June 2017;
- **Sustainable Places 2017** (SP2017) organised in Middlesbrough, England on 28-30 June 2017.