

# Scientific publications, presentations and academic trainings

Deliverable Report D6.3



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**P2ENDURE**

Plug-and-Play product and process innovation for Energy-efficient building deep renovation

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## Deliverable Report D6.3

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Produced by	Università Politecnica delle Marche
Main author	Dr Marco Arnesano (UNIVPM)
Co-authors	Prof Gian Marco Revel (UNIVPM)
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## Publishable executive summary

The objective of P2ENDURE **WP6 ‘Communication, dissemination and synergy’**, within which this deliverable is developed, is to plan and actuate the communication and dissemination strategy for maximizing the impact of the project results. In particular, this deliverable includes a plan to achieve effective publishing of project results in scientific journals and conferences, as well as, the targeted dissemination of knowledge through academic trainings. To guarantee the Open Access of publications done within P2ENDURE, the measures and tools (e.g. self-archiving platforms) available to the consortium are investigated and illustrated.

The deliverable identifies the overall approach, main content and outcomes to be disseminated and the main target groups for this dissemination. It will also specify key messages and criteria to evaluate the dissemination activities. Finally, a search report on potential journals and conferences for papers submission, guidelines for managing the papers preparation and tools to collect and keep track of all the actions performed within the project are included in this document.

## List of acronyms and abbreviations

APC: Author Processing Charges

BIM: Building Information Model

HVAC: Heating Ventilation Air Conditioning

ICT: Information and Communication Technology

IEQ: Indoor Environment Quality

IPR: Intellectual Property Right

KPI: Key Performance Indicator

OA: Open Access

PnP: Plug and Play

RES: Renewable Energy Source

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## 1. Introduction

P2ENDURE will set up a dissemination strategy to maximize the impact on the scientific and academic public so to disseminate results on deep renovation process and tools widely. This D6.3 is a plan for these activities with the provision of guidelines for partners to prepare relevant papers for scientific journals and transfer knowledge and experience into academic trainings. To this aim, this document provides an overview of the dissemination policy to be applied, which details the objectives of the scientific communication, the subject matters and outcomes that P2ENDURE will generate and that can be shared. As for any kind of dissemination, the key messages to be transmitted and the topic areas of interest are identified for steering the actions and setup an effective plan. Quality measures are also considered to provide a method for assessing the quality of the scientific dissemination. Based on a systematic communication policy, D6.3 provides a collection of journals and conferences for submitting scientific papers for achieving the objective of 20 professional and scientific publications at the end of the project. The selection has been done paying attention to quality metrics of journals to maximize the impact of P2ENDURE publications and get advantages of high-level peer-review.

P2ENDURE recognizes the importance of sharing the generated knowledge. The Open Access of P2ENDURE publications will be guaranteed and D6.3 provides evidence of tools and methods adopted for the scope.

## 2. Communication Policy

### 2.1 General context

Dissemination is concerned with making the project visible, creating awareness of and understanding for the project, as well as, for promoting participation in the project. In particular, the dissemination toward the scientific public aims to maximize the impact of projects results, addressing shortcomings in the state of the art, replying to scientific and technical needs, but also sharing the knowledge generated by the project. Therefore, the P2ENDURE dissemination toward scientific public strategy needs to address the following issues:

- The aim of dissemination → overall approach and objectives
- What will be disseminated → outcomes and P2ENDURE key messages
- Who is the audience → target groups
- What medium will be used → dissemination tools and activities
- When will it be disseminated → timing

Not all these issues can be regarded in an isolated way. For instance, different target groups need to be approached by different media while some information can only be published in the last stage of the project, etc. That is, dissemination activities have to be devised accounting for the above mentioned issues.

Effective dissemination thus has to take into account the following principles:

- Knowledge has to be available and accessible. Depending on the different purposes, target groups and cultural backgrounds, dissemination activities and tools need to be designed.
- Information has to be relevant and compatible for the different user groups to allow for complete understanding and to maximize impact.
- Interaction with end-users has to be stressed. Analysing the end-users needs and responses creates links between the project goals and actual achievements. The exchange of views with the scientific community will support the project positioning its results and findings in the state of the art.

## 2.2 Objectives and overall approach

The main objective of the knowledge dissemination strategy is to enable a high impact of all project results on the European building constructors, retrofit designers, BIM and ICTs developers/users, planning and policy authorities. Through realising this strategy, widespread knowledge dissemination should be possible leading to extensive utilisation of the project's outcomes. A further objective, while disseminating the P2ENDURE results to the target audiences, is the protection of intellectual property of the knowledge. This involves acting and mediating accordingly in case a conflict related to IPR and ownership of results should emerge within the consortium. Confidentiality Issues will be treated according to the rules established in the Consortium Agreement, which was signed by each of the partners. The dissemination strategy ensures that the project results are communicated to the target group in a manner appropriate to that target group. To a great extent, this enables the reuse and enhancement of the outcomes. These objectives will be achieved by:

- Adoption of Open Access and Open Research Data Pilot policies;
- Adoption of rules for the knowledge sharing toward scientific and academic audience for IPR protection;
- Provision of journals collection relevant for the different contexts of P2ENDURE;
- Provision of initial collection of conferences and events (held in 2017 and 2018) where P2ENDURE can be presented;
- Inclusion of P2ENDURE outcomes in the academic training given at university partners.

## 2.3 Dissemination subject matters and outcomes

The consortium consists of a number of partners, all involved in dissemination activities. Therefore, the project and its work can be presented in a consistent way. With regard to the P2ENDURE objectives and to the project structure, the following results and findings need to be dissemination toward scientific and academic communities:

- General project overview:
  - The project itself
- Concepts and approaches:
  - Deep retrofit
  - Renovation process
  - Building energy analysis
  - Connection to energy grid and RES
  - IEQ



- Products and technology:
  - PnP prefab solutions for deep renovation (panels, windows, rooftop module, connectors, HVAC)
  - On-site 3D technologies (printing and scanning)
  - IEQ monitoring
  - BIM
- Pilots:
  - Ten case studies available for bench marking
  - Virtual demonstrators

The P2ENDURE consortium comprises large companies from the construction sector, high tech enterprises with research capabilities and research organizations. The idea is to take advantage of the strong point of each partner in order to reach all target groups defined (see next section) and also cover all dissemination tools and activities.

According to the P2ENDURE concepts and objectives, the following results are considered as the main project outcomes that the dissemination activities should focus on:

- Inventory of PnP prefab building components, PnP prefab MEP components and 3D technologies to be used on-site. WP1 outcomes focus on the application of existing PnP technologies to be applied for deep renovation. The aspects of assessing performance criteria, optimizing the design through the integration into BIM based process and the on-site assembling/applying will be explored.
- Innovation in the deep renovation process. WP2 outcomes a design of the 4M process, based on the BIM platform with the linked functions and services that support the renovation process using PnP products. Among them, the solutions configurator, lifecycle information management, e-Marketplace platform and the extension to district scale (local factory and district alliance).
- Methodologies for performance validation and optimisation. WP3 provides tools and methodologies to monitor and assess the overall renovation process, considering the energy savings, environmental friendliness, cost effectiveness, time efficiency, replicability and IEQ. New sensors, data collection and processing, calculation methods and benchmarks will be explored and applied.
- Real demonstrators of deep renovation. WP4 will implement the 4M process in 10 real renovation projects providing information on the applicability, process effectiveness, data on performance before/after renovation, deep analysis on the overall renovation process and lessons learnt.
- Assessment of energy saving opportunity, feasibility and affordability of deep renovation.

## 2.4 Key messages

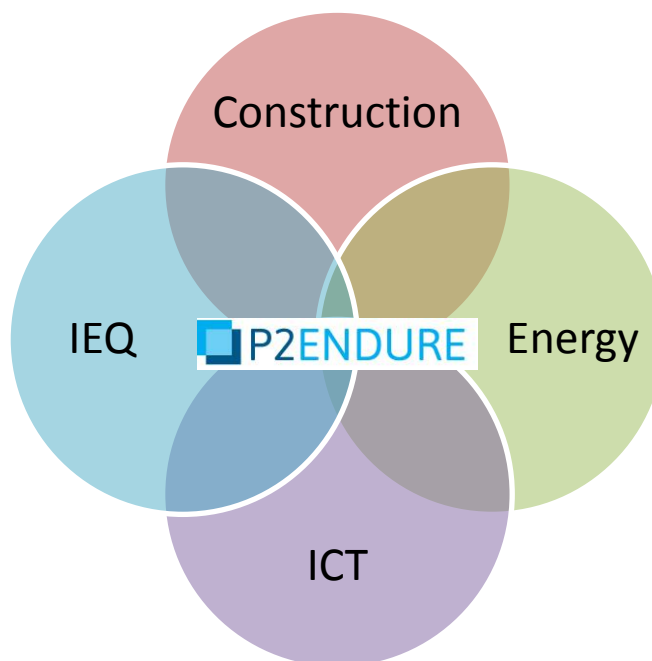
Considered to be a first priority when defining the communication policy, it is essential to establish key messages that need to be communicated in the various publications according to purpose of dissemination and target audience. The key messages have to be defined in terms that they will be understandable to each target group. These key messages should be included in the knowledge dissemination to provide evidence of the P2ENDURE answers to the most significant challenges that scientific and academic communities are facing. Every action of knowledge sharing will clarify which of the key messages will tackle and in which aspect it is going to contribute.

P2ENDURE key messages are defined as follows, focusing on the main objective of the project that is to provide evidence-based innovative solutions for deep renovation:

- Deep renovation has to increase the scale and level of adoption
- PnP products accelerate the deep renovation process
- P2ENDURE provides empirical evidence of innovative solutions performance
- P2ENDURE develops a modular process that will allow for P2P based deep renovation activities at a large scale

## 2.5 Dissemination topics target

The scientific dissemination and academic training of P2ENDURE will target the main topics related to the building sector. The main ones are recapped in Figure 1.



*Figure 1 Topics target of the P2Ednure scientific dissemination and academic training*



P2ENDURE will have one main topic where knowledge will be created: the innovation in deep retrofit process. This general topic intersects with all the topics typically involved in the building engineering and management. Thus, P2ENDURE will have a wide impact because of the large set of topics that can be targeted.

Main Topic	Sub-topics target
<b>Construction</b>	Construction management Building planning Construction methods Construction materials and components Buildings heritage and conservation HVAC Automation in construction
<b>Energy</b>	RES Grid integration Energy efficiency Embodied energy
<b>ICT</b>	BIM Modelling and simulation Computer-aided design Sensors and intelligent systems
<b>IEQ</b>	Thermal comfort Indoor air quality Occupant's interaction Comfort assessment and benchmarking



## 2.6 Evaluation of P2ENDURE scientific and academic dissemination

To assess whether the P2ENDURE scientific dissemination strategy is efficient, we have defined a number of basic KPIs that should allow evaluating the impact of the different dissemination tools, activities deployed and carried out. During the course of the project, these parameters can be adapted or modified according to the project's evolution.

Action	Feedback quality check parameter	KPIs
<b>Journal papers</b>	Number of publications	6
<b>Professional articles</b>	Number of articles	8
<b>Conference</b>	Number of papers	6 conference papers
	Number of posters	2 conference posters
<b>Academic training and workshops</b>	Number of academic courses	4 academic trainings
	Number of workshops	2 workshops
	Number of attending people	Audience > 25
<b>EC endorsed events</b>	Number of workshops	2
	Number of Conferences	2



## 3. Dissemination Actions Toward Scientific and Academic Public

The scientific dissemination of P2ENDURE project foresees three main action types:

- Publication of papers;
- Presentation at conferences and invited lectures;
- Provision of academic training within university partners, dedicated to students and professionals.

Each action will follow the communication policy defined in the previous chapter and will be evaluated according to the selected criteria.

### 3.1 Publications

#### 3.1.1 Publication strategy and Open Access Policy

The publication of articles and papers will be one of the most influencing dissemination actions of P2ENDURE. The publication types will be:

- Journal paper: peer reviewed paper published on the most influencing international journals. Impact metrics will be considered (e.g. impact factor, citations etc.);
- International conference paper: peer-reviewed paper published in proceedings;
- National conference paper: peer-reviewed paper published in proceedings;
- Professional article: short paper published in digital or paper issue of professional magazines, or web articles for professional web portals

Publications will cover one or more topics targeted by P2ENDURE. As usual, during the initial phase of the project, when results are not yet available, publication efforts will be directed towards conferences, professional magazines and portals to have a comparison with experts and researchers. For example, the project was presented in a short article for the Italian website InfoBuildEnergia dedicated to professionals in the constructions and energy professionals or a first abstract has been submitted to the Construction Research Congress 2017 in Seattle, USA.

During the second phase, more effort will be put to submit and publish papers in international journals, promoting also the collaboration between partners for joint papers.

The dissemination plan will guarantee Open Access (OA) to scientific publications resulting from publicly funded, in accordance with Regulation (EU) No 1290/2013. P2ENDURE partners have committed themselves to provide Open access to all scientific publications (free of charge online access for any user) using both Self-archiving ('green' open access) and 'gold' open access. P2ENDURE

will ensure open access to all peer-reviewed publications and other types of scientific publications, some of which may, in some cases, not be peer reviewed.

**Green Open Access:** the author of the publication will archive the published article or the final peer-reviewed manuscript in an online repository. The access to the article is often delayed according to the publisher's policy ('embargo period'). The EU accepts a maximum embargo of 6 months (12 months for publications in the social sciences and humanities). For this reason, the choice of self-archiving will be evaluated considering the embargo required by the selected publisher. P2ENDURE will adopt the following self-archiving tools:

- UNIVPM will archive manuscripts on IRIS (Institutional Research Information System - <https://iris.univpm.it/>). IRIS implements institutional repositories compliant to OpenAIRE guidelines. Published papers where UNIVPM is author or co-author and for which green open access has been chosen, will be archived on IRIS;
- TUB has the archiving system Deposit Once (<https://depositonce.tu-berlin.de/>) that will be used for self-archiving of published papers where TUB is author or coauthor and for which green open access has been chosen;
- In the case of publications where partner's repositories will not be available, "orphan" repositories will be used, mainly European Commission's Zenodo (<https://zenodo.org/>).

**Gold Open Access:** manuscripts can be published in open access journals, or in journals that sell subscriptions and offer the possibility of making individual articles openly accessible (hybrid journals). According to EU Commission guidelines, the Author Processing Charges (APCs) incurred by partners are eligible for reimbursement during the duration of the project. For APCs incurred after the end of grant agreement, a mechanism for paying some of these costs will be piloted. In the case of 'Gold' open access, open access must be granted at the latest on publication. To obtain the maximum impact from Open Access, P2ENDURE publishing will also make use of 'gold' open access. For this, P2ENDURE will reserve budget for the author processing charges (APCs) and guarantee the OA.

P2ENDURE participates as **Open research Data Pilot** and recognizes the value of regulating research data management issues. Accordingly, in line with the rules laid down in the Model Grant Agreement, the partners will deposit the underlying research data needed to validate the results presented in the deposited scientific publications in a clear and transparent manner. The policy will be determined in the Data Management Plan (Deliverable D7.1).

### 3.1.2 Targeted Journals

The following table outlines several relevant journals to be evaluated for the publication of project results. The list is non-exclusive and will be expanded as we build the consortium expertise further in this area. The selection has been done according to P2ENDURE targeted topics. Moreover, for each journal the Open Access rules and costs have been included. Finally, the **Impact Factor** of each journal has been included so to provide a metric of the targeted quality selected for the P2ENDURE publications. Higher impact factor journals will be preferred when preparing and submitting a manuscript so to guarantee the maximum quality of P2ENDURE publications.

Publisher	Journal	Impact Factor	Description	Gold OA	Green OA
ASCE Library	Journal of Construction Engineering and Management	1.78	The Journal of Construction Engineering and Management publishes quality papers that aim to advance the science of construction engineering, harmonize construction practices with design theories, and further education and research in construction engineering and management.	Fee USD 1750	Embargo 24 months
Bentham Open	The Open Construction & Building Technology Journal	0.38	The Open Construction and Building Technology Journal is an Open Access online journal, which publishes original research articles, review articles, short articles, letters and guest edited single topic issues in the field of construction and building technology, aiming at providing the most complete and reliable source of information on current developments in the field.	Fee USD 800	Golden Access only
Elsevier	Advanced Engineering Informatics	2.0	Advanced computing methods and related technologies are changing the way engineers interact with the information infrastructure. Explicit knowledge representation formalisms and new reasoning techniques are no longer the sole territory of computer science. For knowledge-intensive tasks in engineering, a new philosophy and body of knowledge called Engineering Informatics is emerging.	Fee USD 2400	Embargo 24 months
Elsevier	Automation in Construction	2.442	The journal publishes refereed material on all aspects pertaining to the use of Information Technologies in Design, Engineering, Construction Technologies,	Fee USD 2500	Embargo 24 months



			and Maintenance and Management of Constructed Facilities.		
<b>Elsevier</b>	Building and Environment	3.394	International journal that publishes original research papers and review articles related to building science and human interaction with the built environment.	Fee USD 2500	Embargo 24 months
<b>Elsevier</b>	Construction and Building Materials	2.421	International forum for the dissemination of research and development in the field of construction and building materials and their application in new works and repair practice. The journal publishes a wide range of research and application papers which describe laboratory and numerical investigations or report on full scale projects.	Fee USD 3000	Embargo 24 months
<b>Elsevier</b>	Energy and Buildings	2.973	International journal publishing articles with explicit links to energy use in buildings. The aim is to present new research results, and new proven practice aimed at reducing the energy needs of a building and improving indoor environment quality.	Fee USD 2850	Embargo 24 months
<b>Elsevier</b>	Journal of Building Engineering	n/a	The Journal of Building Engineering is an interdisciplinary journal that covers all aspects of science and technology concerned with the whole life cycle of the built environment; from the design phase through to construction, operation, performance, maintenance and its deterioration.	Fee USD 2500	N/A
<b>Elsevier</b>	Journal of Cultural Heritage	1.533	The Journal of Cultural Heritage (JCH) is a multidisciplinary journal of science and technology for studying problems	Fee USD 1800	Embargo 24 months

			concerning conservation and awareness of cultural heritage in a wide framework.		
<b>Elsevier</b>	Measurement	1.742	Journal of the International Measurement Confederation on all aspects of the research, development and applications of the science and technology of measurement and instrumentation.	Fee USD 2850	Embargo 24 months
<b>Elsevier</b>	Sustainable Cities and Society	1.044	Sustainable Cities and Society (SCS) is an international journal focusing on fundamental and applied research aimed at reducing the environmental and societal impact of cities.	Fee USD 2500	Embargo 12 months
<b>Emerald</b>	Engineering, Construction and Architectural Management	1.0	ECAM publishes papers on research breakthroughs and innovative developments in the design, construction and management of buildings and civil infrastructure projects.	Fee GBP 1650	Embargo 24 months
<b>IOP Science</b>	Measurement Science and Technology	1.492	Measurement Science and Technology publishes articles on new measurement techniques and associated instrumentation. Papers that describe experiments must represent an advance in measurement science or measurement technique rather than the application of established experimental technique. Bearing in mind the multidisciplinary nature of the journal, authors must provide an introduction to their work that makes clear the novelty, significance, broader relevance of their work in a measurement context and relevance to the readership of	Fee EUR 1950	Embargo 12 months

			Measurement Science and Technology		
<b>MDPI</b>	Buildings	n/a	Buildings is an international, peer-reviewed, open access journal (free for readers) that publishes original articles, critical reviews, research notes, and short communications on building science, building engineering and architecture design.	Fee CHF 350	Golden Access only
<b>Scientific Research Publishing (SCIRP)</b>	Open Journal of Energy Efficiency	1.14	Open Journal of Energy Efficiency (OJEE) is an open access journal published quarterly. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in all areas of energy efficiency.	Fee USD 399	Golden Access only
<b>Scientific Research Publishing (SCIRP)</b>	Journal of Building Construction and Planning Research	0.63	Journal of Building Construction and Planning Research (JBCPR) is an open access, scholarly peer reviewed and refereed journal published in electronic form as well as print form. The JBCPR publishes original research, state-of-the-art review articles, discussion papers, innovative industrial application, insightful case studies, and book reviews from experts in the field of building construction and planning. The extensive knowledge, experimental findings, and practical information produced by the journal have become significant resources for innovations in building construction and planning. The journal aims to promote technical and scientific advances in building construction and planning among	Fee USD 399	Golden Access only

			academia, professionals, consultants and students by stimulating research, encouraging academic exchange and enhancing professional development.		
<b>Springer</b>	Energy Efficiency	1.183	The journal Energy Efficiency covers wide-ranging aspects of energy efficiency in the residential, tertiary, industrial and transport sectors.	Fee EUR 2200	Embargo 12 months
<b>Taylor &amp; Francis</b>	Journal of Civil Engineering and Management	1.53	Journal of Civil Engineering and Management is a peer-reviewed bimonthly released journal which provides an international forum for the dissemination of the latest original research, achievements and developments in many areas of civil engineering and management (excluding specific areas as seismic processes and earthquake engineering, offshore engineering, hydrology and hydraulic engineering, underground structures, transportation and traffic engineering, land surveying and mapping).	Fee EUR 2150	Embargo 12 months
<b>Taylor &amp; Francis</b>	Building Research & Information	2.156	Building Research & Information focuses on buildings, building stocks and their supporting systems. Unique to BRI is a holistic and transdisciplinary approach to buildings, which acknowledges the complexity of the built environment and other systems over their life.	Fee EUR 2150	Embargo 12 months
<b>Wiley</b>	Indoor Air	4.33	Indoor Air provides a location for reporting original research results in the broad area defined by the indoor environment of non-industrial buildings.	Fee USD 1000-5200	Embargo 12 months

### 3.2 Presentations

A P2ENDURE Project Presentation will be part of the different dissemination tools designed to support the P2ENDURE dissemination efforts. The presentation is to be used in all events and meetings where P2ENDURE results and activities are presented.

The P2ENDURE project power point presentation provides a general project overview, background information, objectives, rationale, partners and first results. This presentation will be updated during the course of the project.

As best possible, P2ENDURE will aim to understand which events have high-impact and which events we should become strategically aligned to. Within its first few months, P2ENDURE has been already presented or will be presented in some events:

- P2ENDURE leaflets were distributed during the ECTP Conference - Innovative Built Environment (17-18 November 2016, Brussels);
- TUB booked a stand at the CeBIT - Global Event for Digital Business where P2ENDURE will be disseminated (distribution of leaflets, presentation running in background screen);
- UNIVPM will participate at WSED2017 - World Sustainable Energy Days (1-3 march 2017, Wels) where the P2ENDURE leaflet will be distributed.

Next table captures conferences, exhibitions, and events to be evaluated and considered by the consortium. Several are recurring, and although are not appropriate in year 1 of the project, they may be considered during following years.

When	Where	Type	Name	Description
2017-03	Hannover - DE	Trade Fair	CeBIT - Global Event for Digital Business	CeBIT spans the entire range of topics in digitization, highlighting the challenges. The trade fair focuses on the IT innovations that are revolutionizing the business world and puts the spotlight on today's most promising start-ups. From cloud technology and IT security to big data and the Internet of Things, CeBIT covers all the most current and relevant market trends in the industry.
2017-03	Spijkensisse - NL	Conference	Nationaal BREEAM	Value based investment using the BREAAAM-NL benchmark. Lectures and workshops.

			Congress	
2017-04	Amsterdam - NL	Conference	Building Holland	(Re) Building the Future is a call directed to the construction and real estate parties to -take into play in the future-in a rapidly changing market and to do so as durable and innovative as possible. Working together with the leading chain partners so that not only product innovations arise, but also processes are optimized.
2017	Diverse locations	Knowledge sessions	Duurzaam gebouwd on location	Thematical knowledge sessions organized by the platform 'duurzaam gebouwd' (sustainable building)
2017-06	New castle - UK	Conference	IRCSEEME - International research conference on sustainable energy, engineering, materials and environment	This conference offers a platform for worldwide researchers and scientists from academia, industry and government to discuss proposals and disseminate results on sustainable energy and materials and its impact on engineering and our Environment.
2017-06	Middlesbrough - UK	Conference	Sp2017 - Sustainable places 2017	The SP'17 call for proposals is looking for the most innovative, impactful, and market-feasible submissions within the solution framework of emerging smart buildings and cities. SP'17 brings together researchers and developers from industry and the academic world to report and more importantly debate on the latest scientific and technical innovations on the application of energy-efficient buildings (EeB) and smart home, community, or grid implementations.
2017-07	Lublin - PL	Conference	Healthy Buildings Europe 2017	Healthy Buildings Europe 2017 is a second edition of the new concept of ISIAQ Healthy Buildings series at a different pace and parallel at different places around the world, bringing it

				closer to regional issues and practice. The technical program will focus on multi-sectoral collaboration and practical aspect of research.
<b>2017-07</b>	Lyon - France	Conference	ICEESM2017 - 2nd International conference on Energy Engineering and Smart Materials	The aim as well as objective of ICEESM 2017 is to present the latest research and results of scientists related to Energy Engineering and Smart Materials topics.
<b>2017-07</b>	Brighton - UK	Conference	ECSEE2017 - The European Conference on Sustainability, Energy & the Environment	Conference will highlight the need to harness our abilities as scientists, policymakers, practitioners, engineers and educators, to find multidisciplinary solutions in pursuit of the common goal of a sustainable world.
<b>2017-07</b>	Nottingham - UK	Conference	24th International Workshop on Intelligent Computing in Engineering	The 24th EG-ICE International Workshop will bring together international experts working on the applications of computing to engineering problems. It is intended to be a small-scale, but high-quality and single-track event focussing on the promotion, dissemination and exchange of knowledge and ideas through intensive discussions.
<b>2017-09</b>	Rome - IT	Conference	SENSORCOMM 2017	Conference on sensor technologies and applications
<b>2017-09</b>	Rome - IT	Conference	ICSD 2017- 5th International Conference on Sustainable Development	The International Conference on Sustainable Development is inspired from the critical challenge of human, environmental, and economic sustainability concerning the present and future generations in a global-scale context
<b>2017-09</b>	Seville - ES	Conference	7th International Conference on	The diverse topics covered by the Conference involve collaboration between different disciplines in order to arrive at optimum

			Energy and Sustainability 2017	solutions, including studies of materials, energy networks, new energy resources, storage solutions, waste to energy systems, smart grids and many others.
<b>2017-11</b>	Porto - PT	Conference	sb-lab2017 - International conference on advances on sustainable cities and buildings development	Adopted the UN 2030 Agenda on Sustainable Development as the reference for its scope and goals. Proposed topics aim to cover all the Sustainable Development Goals in order to achieve the contribute that architects, engineers, contractors, politics and the construction industry in general may bring to these goals.
<b>2018-04</b>	Baton Rouge - USA	Conference	CRC2018 - Construction research congress	Not available yet
<b>2018-09</b>	Syracuse - USA	Conference	IBPC2018 - 7th International Building Physics Conference	Healthy, Intelligent, and Resilient Buildings and Urban Environments. The goal of the conference is to advance the collective understanding of the nature and behaviour of the cyber-physical systems in these different scales, how they interact, and what can be done to optimize their design and operation for healthy, intelligent and resilient buildings and urban environments.





### 3.3 Academic Trainings

The application of innovative solutions, the plug&play products, the procedure for large-scale deep retrofit projects (e.g. BIM-based retrofit management) and the procedures for performance monitoring and validation are all topics suitable for introducing novelty in the academic trainings. The lessons learnt and experience provided by real application of that innovation in buildings deep retrofit will be the base of workshops, lectures and seminars to be provided by university partners. The provision of academic trainings will begin after M6 with the Milestone MS2 when the 4M methodological approach will be defined and ready for application to the pilot cases with the configurator. In this way, the background knowledge on deep renovation solutions will be available. The scheduling of academic training will be drafted according with the scheduling of academic courses. Two university partners will provide academic trainings.

**Tehnische Universitaet Berlin (TUB)** is involved in P2ENDURE with the group of Bauinformatik. A major research focus is in the field of process modelling and product modelling in civil engineering. There is a long tradition in teaching object oriented modelling and since more than three years, a course in Building Information Modelling has been established in the Bachelor program in Civil Engineering. Moreover, a newly installed chair in Systems Engineering focus will be on understanding, designing, and engineering complex civil engineering systems, such as infrastructure and buildings. In these expert areas, TUB will disseminate P2ENDURE knowledge by providing lecturers within the following modules:

- Systems Engineering – Bachelor. In this course, we will teach students basic statistics and simulation skills. Hereby, P2ENDURE demonstrators will be used as practical case examples and during student project work. The 4M process as will be developed in P2ENDURE will also be a topic in the module.
- Data Engineering – Bachelor. In this course, students will learn advanced data mining and machine learning practice. Performance data of at least one of the P2ENDURE case studies will serve as basis for a project based work assignment during which the students need to provide energy improvement suggestions based on a detailed analysis of the data set.
- Product Modeling – Masters. In this class students learn how to ontologically understand the components of complex buildings and infrastructure. The class also teaches advanced parametrically supported engineering design activities. This class will dedicate one class to teach students the insights of how to map and model existing buildings and possible innovative products and one class to present the configurator as an example of an advanced parametric design and engineering solution.
- Complex Energy Systems - Masters. This module will be newly developed, partly based on P2ENDURE outcomes. Here P2ENDURE topics concerning district energy solutions will be discussed. Again the demonstration projects will be used widely in the module.

**Università Politecnica delle Marche (UNIVPM)** is involved with the Department of Industrial Engineering and Mathematical Sciences (DIISM). The Mechanical and Thermal Measurement Group participates actively to the project. Main areas of research are connected with development and application of new sensors and experimental techniques for material characterization, structural and environmental monitoring, non-destructive testing and embedded systems, smart sensors for indoor environments, building energy and comfort monitoring, non-contact measurement techniques and data analysis. UNIVPM is the leader of WP3 Performance validation and optimisation, where the monitoring and assessment methodology to validated energy, environmental, IEQ and economic performance of the P2ENDURE solutions. Advanced sensors (such as the Comfort Eye) and measurement techniques will be further developed for the P2ENDURE scope providing in-depth investigation of the monitoring procedures to be applied to deep retrofit projects. The increased knowledge and real application in that field will be the insight disseminated to students. In particular, students of the following courses will be invited to workshops/seminars based on P2ENDURE outcomes:

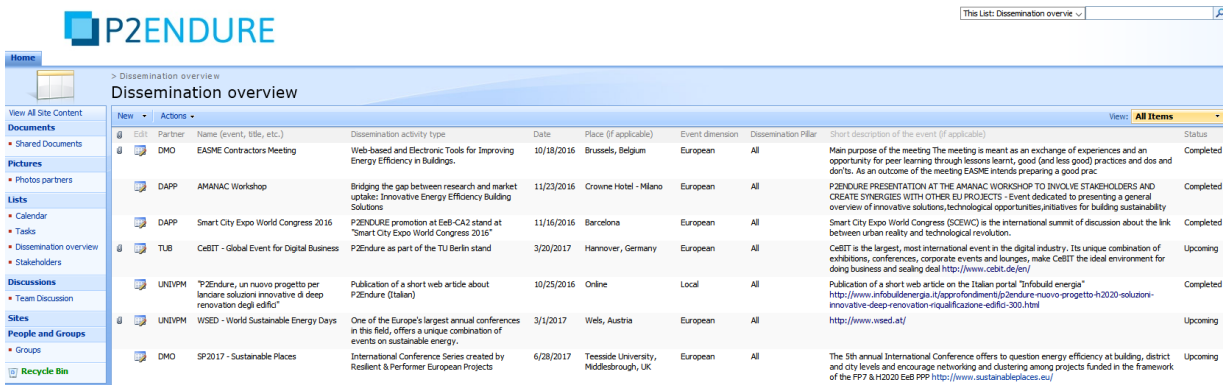
- Mechanical and thermal measurements – Bachelor: this course provides knowledge on measurement basics (data acquisition and processing, measurement uncertainty, sensors). The monitoring tools and methodologies applied to deep retrofit intervention will be presented with application to real case study. Moreover, internship for Bachelor theses will propose to students.
- Measurement and thermotechnical controls – Masters: this course provides knowledge of advanced measurement systems with particular attention to non-contact measurement techniques (e.g. thermography, acoustic, etc.) and insight from specific applications such as building monitoring and control, IEQ measurements, non-destructive testing, material characterization and other industrial applications. P2ENDURE knowledge will be transferred through lecturers on building monitoring, IEQ control and optimization, building envelope characterization. Internship of 525 hours on P2ENDURE activities will be proposed to students so to acquire expertise on building monitoring and performance evaluation with activities on the demo building of Ancona. The outcomes will be part of the Master thesis linked to the internship.

### 3.4 Dissemination Management and Reporting

Dissemination material is strictly bound to IPR and has to be coordinated and confirmed in cooperation between the Project Coordinator, the Technical Coordinator, the Exploitation Coordinator and the WP leaders of WP5, WP6 and 7. All partners agreed rules on dissemination of results as stated in the Grant Agreement – 723391. The content, results and outcomes to be used in any dissemination action will be communicated by proposing partners to the consortium at least 45 days before the submission. The consortium will investigate if no IPR will be infringed and if the use of material, common to more partners, requires joint participation of those partners. Any objection from the consortium has to be filed within 30 days of receiving notification. The objection should indicate measures to be taken before dissemination takes place. If the dissemination takes place, the final manuscript or presentation will be circulated within the consortium before the submission so to have the formal approval and support for improvements. To this aim, the ‘Announcement’ on the project SharePoint has to be done by the proposing partner/s, which includes a short description of the manuscript or presentation and includes in attachment the full text document. The announcement will expire within one week, after that the partner can proceed with the submission. The published paper or presented presentation will be reported and shared with the consortium in the ‘Dissemination Overview’ of the project SharePoint. This will simplify the reporting and collection of all the dissemination actions performed by P2ENDURE.

## 4. Collection of Actions

A dedicated space in the P2ENDURE SharePoint, named 'Dissemination Overview', has been set up to collect the dissemination actions, also toward scientific community.



The screenshot shows the 'Dissemination overview' page in a SharePoint environment. The page title is 'Dissemination overview' and it contains a table with the following columns: Partner, Name (event, title, etc.), Dissemination activity type, Date, Place (if applicable), Event dimension, Dissemination Pillar, Short description of the event (if applicable), and Status. The table lists several events, including 'EASME Contractors Meeting', 'AMANAC Workshop', 'Smart City Expo World Congress 2016', 'CbET - Global Event for Digital Business', 'P2ENDURE, un nuovo progetto per lanciare soluzioni innovative di deep renovation degli edifici', 'WSED - World Sustainable Energy Days', and 'SP2017 - Sustainable Places'.

Partner	Name (event, title, etc.)	Dissemination activity type	Date	Place (if applicable)	Event dimension	Dissemination Pillar	Short description of the event (if applicable)	Status
DMO	EASME Contractors Meeting	Web-based and Electronic Tools for Improving Energy Efficiency in Buildings.	10/18/2016	Brussels, Belgium	European	All	Main purpose of the meeting The meeting is meant as an exchange of experiences and an opportunity for peer learning through lessons learnt, good (and less good) practices and dos and don'ts. As an outcome of the meeting EASME intends preparing a good prac. P2ENDURE PRESENTATION AT THE AMANAC WORKSHOP TO INVOLVE STAKEHOLDERS AND CREATE SYNERGIES WITH OTHER EU PROJECTS - Event dedicated to presenting a general overview of innovative solutions, technological opportunities, initiatives for building sustainability	Completed
DAPP	AMANAC Workshop	Bringing the gap between research and market updates: Innovative Energy Efficiency Building Solutions	11/23/2016	Crowne Hotel - Milano	European	All	Smart City Expo World Congress (SCEWC) is the international summit of discussion about the link between urban reality and technological revolution.	Completed
DAPP	Smart City Expo World Congress 2016	P2ENDURE promotion at Eab-CA2 stand at "Smart City Expo World Congress 2016"	11/16/2016	Barcelona	European	All	Smart City Expo World Congress (SCEWC) is the international summit of discussion about the link between urban reality and technological revolution.	Completed
TLB	CbET - Global Event for Digital Business	P2Endure as part of the TU Berlin stand	3/20/2017	Hannover, Germany	European	All	CbET is the largest, most international event in the digital industry. Its unique combination of exhibitions, conferences, corporate events and lounges, make CbET the ideal environment for doing business and sealing deal <a href="http://www.cbet.de/en/">http://www.cbet.de/en/</a>	Upcoming
UNIVPM	"P2Endure, un nuovo progetto per lanciare soluzioni innovative di deep renovation degli edifici"	Publication of a short web article about P2Endure (Italian)	10/25/2016	Online	Local	All	Publication of a short web article on the Italian portal "Inibuild energy" <a href="http://www.inibuildenergia.it/glossari/temi/p2endure-nuovo-progetto-h2020-soluzioni-innovative-deep-renovation-riqualificazione-edifici-300.html">http://www.inibuildenergia.it/glossari/temi/p2endure-nuovo-progetto-h2020-soluzioni-innovative-deep-renovation-riqualificazione-edifici-300.html</a>	Completed
UNIVPM	WSED - World Sustainable Energy Days	One of the Europe's largest annual conferences in this field, offers a unique combination of events on sustainable energy.	3/1/2017	Wels, Austria	European	All	<a href="http://www.wsed.at/">http://www.wsed.at/</a>	Upcoming
DMO	SP2017 - Sustainable Places	International Conference Series created by Resilient & Performer European Projects	6/28/2017	Teesside University, Middlesbrough, UK	European	All	The 5th annual International Conference offers to question energy efficiency at building, district and city levels and encourage networking and clustering among projects funded in the framework of the FP7 & H2020 Eab PPP <a href="http://www.sustainableplaces.eu/">http://www.sustainableplaces.eu/</a>	Upcoming

Figure 2 Screenshot of the SharePoint "Dissemination Overview" that collects dissemination actions

All partners can access the Dissemination Overview and include items with related details, together with attachments (e.g. manuscript or presentation). This system will guarantee the smooth sharing within the consortium of all the disseminations performed. Moreover, it allows having the complete overview of the dissemination performance. Finally, the complete reporting of all the actions performed by P2ENDURE will be done with the Periodic Report (section 6.1 and 6.2) on Month 12, 30 and 48.

## Conclusions

This deliverable has presented the scientific dissemination plan to be applied for the P2ENDURE project. This document will function as a guide for the consortium partners who will publish manuscript, present project outcomes and perform academic training. Based on the objectives for dissemination and the policy, the final scope is to raise awareness of the work, activities and outcomes of the P2ENDURE project. The activities to be carried out provide information to the scientific community and disseminate the mere existence of the project to the research stakeholders. The P2ENDURE partners will use a variety of dissemination tools/activities to reach all audiences. These include among others, attendance at conferences, events, workshops, and the publication of articles and papers. Our stance regarding dissemination is that an effective dissemination plan should be 'dynamic' in its nature, meaning that it is subject to changes based on newly available data. In this respect, further opportunities will be explored and measures will be taken by all consortium members to collaborate in other activities and disseminate know-how. This way the P2ENDURE dissemination plan is considered a constantly evolving process which comprises the update of the project's activities, the gathering of publishable results from the rest of the partners, and any other important activities reinforcing the efforts to disseminate the project's outcomes, according to targeted results provided in this plan.

## REFERENCES

**European Commission - Guidelines on Open Access to Scientific Publications and Research Data in Horizon2020**

[https://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-pilot-guide\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf)

**InfoBuildEnergia**

<http://www.infobuildenergia.it/approfondimenti/P2ENDURE-nuovo-progetto-h2020-soluzioni-innovative-deep-renovation-riqualificazione-edifici-300.html>

**OpenAIRE**

<https://www.openaire.eu/h2020openaccess/>