



Prescient building Operation utilizing Real Time data for Energy Dynamic Optimization

WP9 – DISSEMINATION AND COMMUNICATION ACTIVITIES

D9.1 – Project Website

Version 2

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LIST OF REVISIONS VERSION 2

- Edited: “RELEASE and UPDATES PLAN” section has been introduced.
- Edited: website screenshots have been updated with minor text revisions.
- Edited: added QR codes for social media.

EXPLANATIONS FOR FRONT PAGE

Author(s): Name(s) of the person(s) having generated the Foreground respectively having written the content of the report/document. In case the report is a summary of Foreground generated by other individuals, the latter have to be indicated by name and partner whose employees he/she is. List them alphabetically.

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PRELUDE KEY FACTS

Project Title	Prescient building Operation utilizing Real Time data for Energy Dynamic Optimization
Starting date	01/12/2020
Duration in months	42
Call (part) identifier	H2020-NMBP-ST-IND-2020-singlestage
Topic	LC-EEB-07-2020 Smart Operation of Proactive Residential Buildings (IA)
Fixed EC Keywords	-
Free Keywords	Free running, model based predicted control, dynamic building simulation, demand side flexibility, proactive buildings, predictive maintenance, occupancy models, smartness assessment
Consortium	21 organisations

PRELUDE CONSORTIUM PARTNERS

	Participant organisation name	Country
1	AALBORG UNIVERSITET	DK
2	TAMPEREEN KORKEAKOULUSAATIO SR	FI
3	ASOCIACIÓN DE INVESTIGACIÓN METALÚRGICA DEL NOROESTE	ES
4	POLITECNICO DI TORINO	IT
5	FORSCHUNG BURGENLAND GMBH	AT
6	UNISMAST - FONDAZIONE UNIVERSITÀ DEGLI STUDI DI PADOVA	IT
7	BRUNEL UNIVERSITY LONDON	UK
8	EMTECH DIASTIMIKI MONOPROSOPI IDIOTIKI ETAIREIA	EL
9	CORE INNOVATION AND TECHNOLOGY OE	EL
10	ESTIA SA	CH
11	EUROCORE CONSULTING	BE
12	IREN SMART SOLUTIONS SPA	IT
13	LIBRA AI TECHNOLOGIES PRIVATE IDIOTIKI KEFALAIOUCHIKI ETAIREIA	EL
14	STAM SRL	IT
15	LA SIA SRL	IT
16	TREE TECHNOLOGY SA	ES
17	1A INGENIEROS S.L.P	ES
18	DIMOS ATHINAION EPICHEIRISI MICHANOGRAFISIS	EL
19	BLOK ARCHITEKCI SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	PL
20	CAISSE DE PREVOYANCE DE L'ETAT DE GENEVE	CH
21	INNOVACION Y CONSULTING TECNOLOGICOSL	ES

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ABBREVIATIONS

CO	Confidential, only for members of the Consortium (including the Commission Services)
D	Deliverable
DEC	Dissemination, Communication, Exploitation
DoW	Description of Work
FOS	Fiber Optic Sensors
FRM	Free Running Mode
H2020	Horizon 2020 Programme
IAQ	Indoor air quality
IPR	Intellectual Property Right
KPI	Key performance indicator
MGT	Management
MS	Milestone
O	Other
OS	Open Source
PM	Predictive Monitoring
RES	Renewable Energy Sources
VRE	Variable Renewable Energy

EXECUTIVE SUMMARY

The present document represents a companion of the D9.1 deliverable (the project website) describing the PRELUDE Project website www.prelude-project.eu. It specifies the actions that could be done by using this tool and outlines the expected influence of the spread of the project.

The PRELUDE Project website is intended to be the primary showcase of the project towards external stakeholders. Its main purpose is to provide the visitor with all the necessary information to get a clear and effective overview of PRELUDE. At the same time, it will host all the publishable project results, during its development, as a constantly-updated eye on the project. Finally, it will be the quickest and most effective method to get in touch with project coordinator or partners.

The website will include up-to-date information of project results, specific news and events related to the project (seminars, meetings, webinars,...), thanks to recurrent management and maintenance activities. Partners, stakeholders and people interested in PRELUDE Project will use the website as a “first contact point” platform.

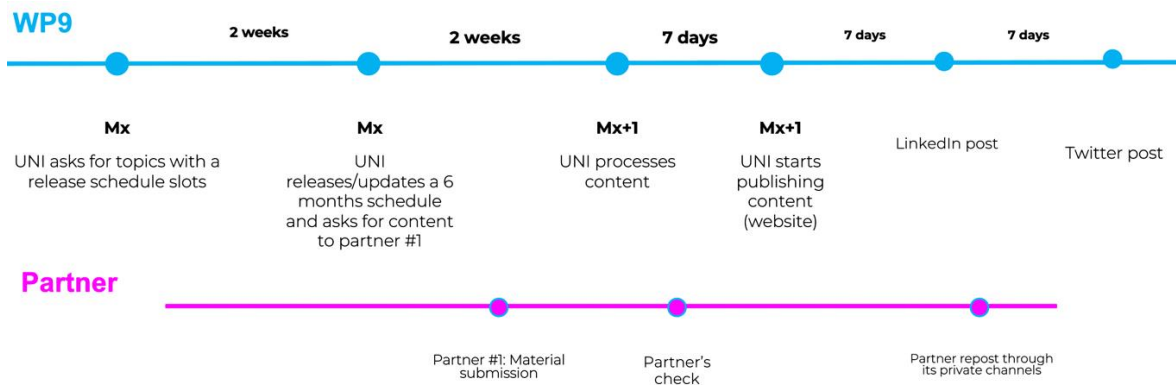
The conducted activities started from an initial brainstorming concerning the aim of the website, the overall content, the visual identity, the structure and the audience targeted, basing on a deep and careful analysis of PRELUDE’s Grant Agreement.

The Project website represents the first formal deliverable related to Dissemination, Exploitation and Communication activities, and wants to set the basis for promoting the PRELUDE project, its results and all the related activities. It is based on a fresh, eye-catching, clear interface, able to provide an enjoyable navigation to the visitor.

RELEASE AND UPDATE PLAN

PRELUDE’s website was released in March 2021 (M4). A series of updates were performed before the General Assembly taken in Copenhagen, in April 2022. During the General Assembly, a Dissemination schedule has been proposed in order to stimulate the gathering of news and information, provide temporal coverage of publications, and a medium and long-term vision of the publication releases. Major meetings for PRELUDE’s partners will be anticipated by a check and possible revision of the content and structure.

In particular, the project website’s content will be fed by the activities derived from the Dissemination Plan that is part of the Deliverable D9.2 “Plan for the Exploitation and Dissemination of Results” (PEDR, M18). An anticipation of the proposed schedule is here highlighted.



During the update of this deliverable D9.1, the Advisory Board Members has been defined and in May 2022 they will be presented in the public webpage.

As part of the PEDR-derived activities, relevant publications from peer-reviewed journals will be listed on the website, alongside with publications derived by PRELUDE’s activities. Other channels will be also investigated to promote either international or national material relevant to PRELUDE.

Here below a synthetic table showing the monitoring processes for the website with possible major implementations. During these milestones, the Analytics data of the website will be analysed to check for possible corrections and exploit data related to visited webpages and visitors’ key features.

M4	March 2021	PRELUDE’s website release
M16	March 2022	Major update
M18	May 2022	Advisory board publication
M19	June 2022	Publication of relevant input from all partners following first draft of PEDR activities
M24	November 2022	Scheduled major check for updates
M30	May 2023	Scheduled major check for updates
M36	November 2023	Scheduled major check for updates
M42	May 2024	Scheduled major check for updates
	November 2024 (with a 6-month schedule)	Maintenance and updates after PRELUDE end with a 6-month check. Key updates, news and data arriving from partners will be seamlessly implemented during the 6-month periods.

1. INTRODUCTION

1.1 ABOUT PRELUDE

PRELUDE is a 42-months Horizon 2020 Project with the aim of increasing the smartness of buildings. Nowadays, innovative solutions are needed to address building operation inefficiencies, considering the energy consumption, fossil fuel dependency, CO₂ footprint and the wellbeing and economy dimensions. The Project is focused on balancing these aspects of building operation, minimizing energy consumption based on a free-running strategy, maximizing self-consumption and Renewable Energy Sources utilization, while maintaining comfortable and healthy conditions. The approach is scalable from individual building to district level and can be applied across any location, typology and smartness level. In PRELUDE, residential buildings will operate dynamically, capable of demand response and flexibility, regardless of pre-existing infrastructure. PRELUDE will provide the user (occupant / tenant, owner / manager and service provider) with clear and pertinent technoeconomic information to make the actions and the right investments at the right time.

1.2 DELIVERABLE 9.1 DESCRIPTION

The PRELUDE Project website is the first Deliverable related to WP9, namely Dissemination and Communication activities. As it will be diffusely explained in the Plan for the Exploitation and Dissemination of Results (PEDR), the website represents one of the main dissemination channels, able to easily reach a significant number of visitors willing to get a first approach to PRELUDE or be constantly updated.

WP9 has the objective of disseminating the technology developed during project evolution as widely as possible, providing potential end users or stakeholders with solid awareness of the potential of the project and maximizing exploitation opportunities for the partners. Of course, particular relevance is given to the protection of IPR knowledge, with the intent of preserving partners' intellectual property.

Deliverable 9.1 has been accomplished having clearly in mind all these premises. The project website has been intended to be the project's showcase, where informative content about the project finds a spot alongside punctually-updated project results and a contact point towards partners.

2. PROJECT WEBSITE STRUCTURE

The implementation and development of the website followed the path traced by an initial analysis concerning website requirements, aims, expectation: with clear awareness about the final objectives, the website took shape, with focused and desired specification.

The Project website is characterized by a direct and clear interface, with the intention of providing the visitor with an easily-readable instrument, which goes straight to the point. Web-surfing wants to be pleasant, through intuitive pages and sections.

The structure of the website, reported schematically in Figure 1 and then explained in detail in Table 1, addresses the need of a lean portal able to effectively present PRELUDE project, to provide updated project results and to represent a first point of contact towards project partners.

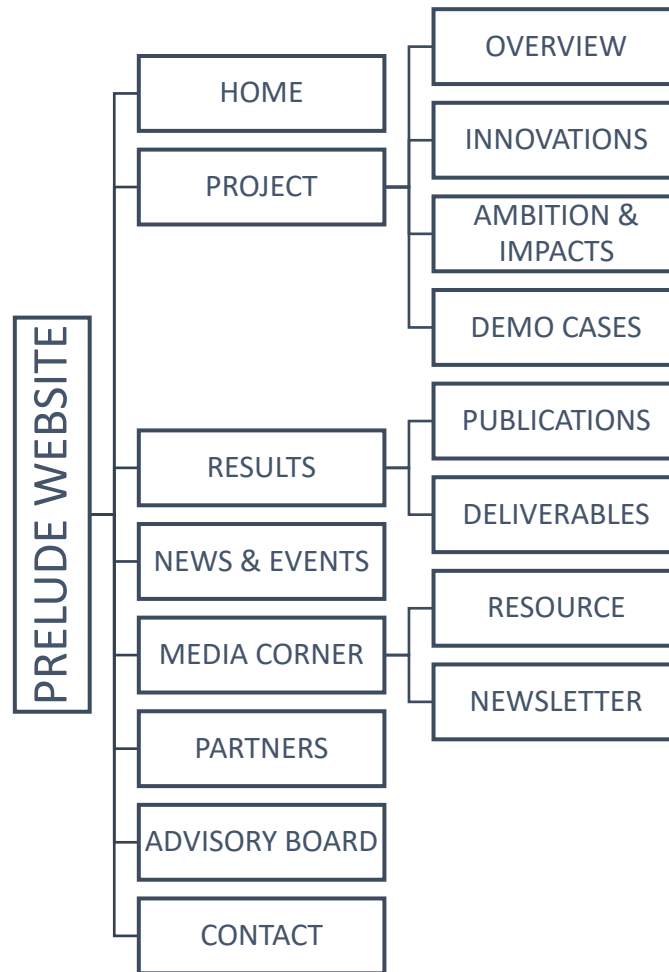
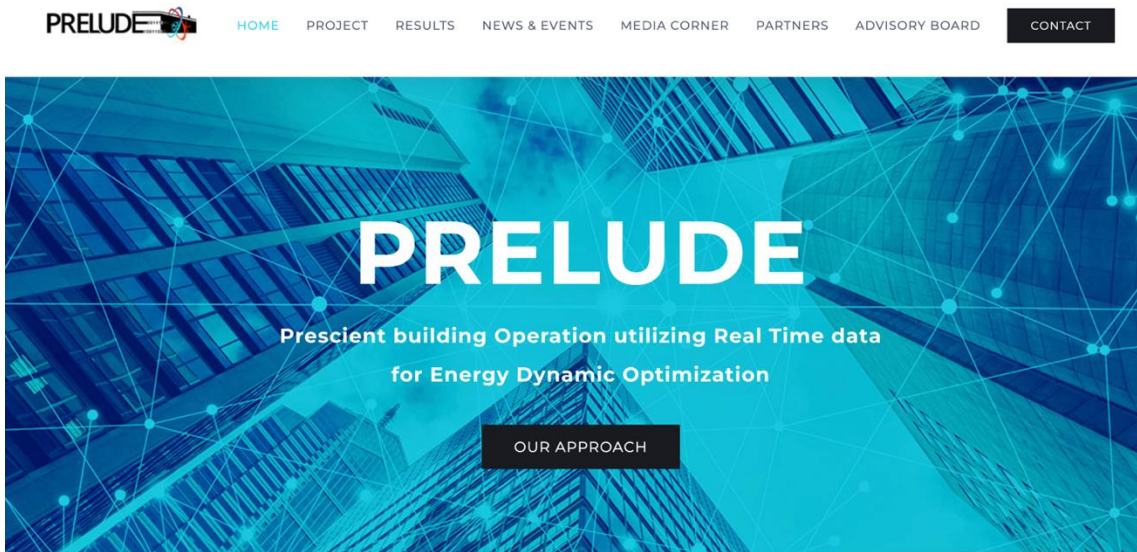


Figure 1 - Schematic representation of the website structure

Table 1 - Structure of the website

Homepage	This is the first page and access point to the entire PRELUDE website (see Figure 2). From the Homepage it is possible to get an overview of the project and its key features, main challenges and expected impacts (see Figure 3). It also condenses some content developed more thoroughly in other specific website sections, such as project description, latest news and consortium composition (see Figure 4). Finally, on the bottom part of the page the user will be able to subscribe to the project newsletter and to get in touch with the Consortium through a specific contact form. The footer of the Homepage (and all the other pages) hosts the EU disclaimer, providing the details about the project’s call and funding details, and a link to the social media (see Figure 5).	
Project	Overview	This section is aimed at providing the user with an overview of the project, explaining project challenge, need and the solution to be developed.
	Innovations	This page provides a brief overview of all the different innovative solutions that PRELUDE aims to develop and implement.
	Ambition & Impacts	This section briefly describes how the project will try to generate a positive impact for the end user of the developed solution and, more broadly, to positively affect the society (see Figure 5).

	Demo Cases	The last page of the Project section presents the demo sites where PRELUDE’s solution will be tested on real scale and operating buildings (see Figure 6).
Results	Publications	This page of the section “Results” will host scientific papers and partners’ publications, providing the user with the opportunity to download them and/or be redirected towards open access repositories hosting the documents.
	Deliverables	Public deliverables submitted in the framework of PRELUDE project development will be hosted in this section, providing the user with the opportunity to download them and/or be redirected towards open access repositories hosting the documents.
News & Events	The page reports brief indications of upcoming or recently past events related to PRELUDE. It will also contain any news concerning the project in terms of public wide appeal, as well as any partners’ activity related to PRELUDE dissemination.	
Media Corner	Resource	This page will answer the demand of a repository of publicly available and downloadable resources related to the PRELUDE project. The page will contain dissemination resources useful both for project partners and for general website users (press, general audience, etc.), for example project leaflet, poster, roll-up, templates, brochure, etc.
	Newsletter	This section will act as a repository of the released project newsletters. It will be possible to download any release of issued newsletters.
Partners	This section is dedicated to present the list of partners involved in PRELUDE project. Each partner’s role and contribution in the project will be presented as well as their main expertise. Every partner’s description goes along with company logo, a “read more” section and a hyperlink to company website (see Figure 8).	
Advisory Board	As soon as the Advisory Board of the project will be established, this section will host the profiles of the people composing it, describing their expertise and how they will contribute to PRELUDE project development.	
Contact	This page contains a contact form and contact details in order to provide the web visitor with an easy and straight method to contact project’s coordinator for questions of interest.	



Key features

PRELUDE represents the improvement of the buildings smartness through:

- minimization of energy utilization (cost saving solutions)
- maximization of self-consumption and Renewable Energy Sources investment and personalization
- reduction of CO₂ footprint
- improvement of comfortable and healthy indoor conditions

This will be possible through the combination of innovative, smart, low-cost solutions and proactive optimization service.

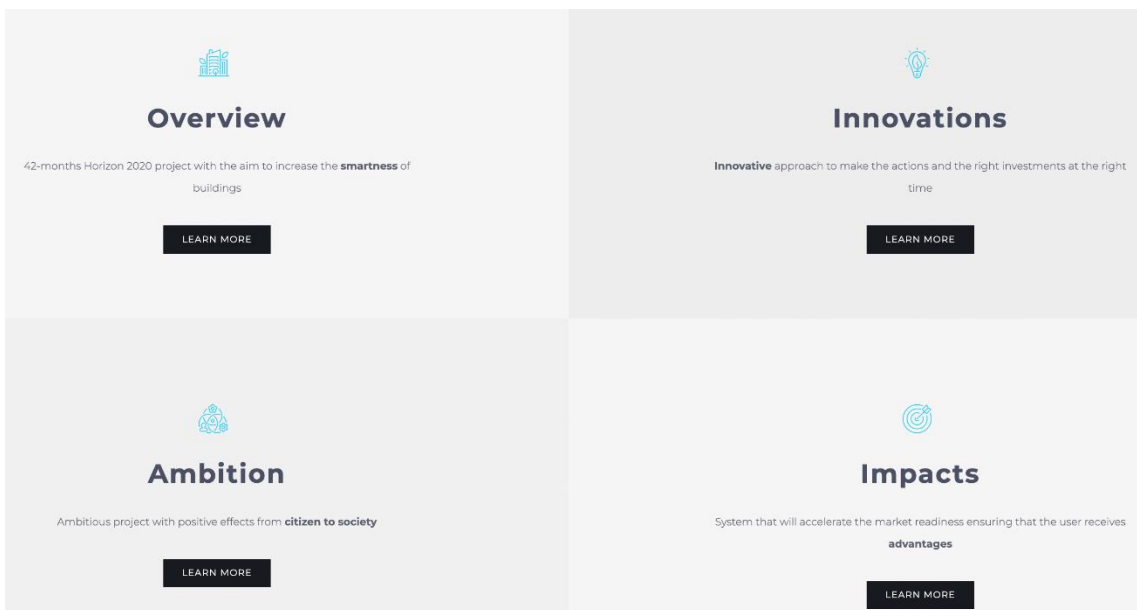


Figure 2 - Homepage 1/2

LATEST NEWS

L'improbable et nécessaire réhabilitation des tours de verre

Campus EPFL
Vendredi 20 mai 2022
09h00 - 16h30

Depuis la première tour de verre à Manhattan, les tours filaires continuent d'y en rajouter. Et dans une dernière étape de l'histoire récente, les architectes et ingénieurs sont appelés dans les grandes villes du monde, surtout pour réhabiliter des tours.

Open tag (chat) pour les détails, les bâtiments. Assurez-vous d'être invité à l'événement en ligne de préférence ou de personnaliser votre profil de préférence.


Le projet des tours de verre est un défi de gestion, une tâche d'affaires et une tâche de gestion de projet. Il est essentiel d'être invité à l'événement en ligne de préférence ou de personnaliser votre profil de préférence.

Participation gratuite

Places non incluses - Limitées, disponibles sur le site de l'EPFL

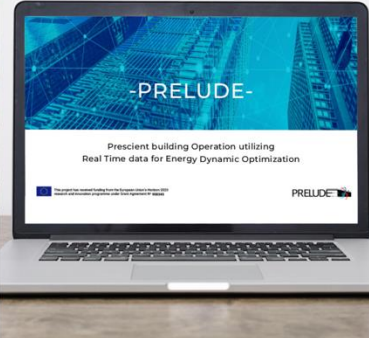
Estia Workshop – The improbable and necessary renovation of the glass skyscrapers

20th May 2022, Workshop On May 20th 2022 Prelude will be present at Estia's Workshop "The improbable and necessary renovation of the glass skyscrapers". The event will take place at Campus EPFL, Lausanne. [...]



1st project review meeting

26th January 2022, Digital Event The Project Review Meeting is a fundamental cornerstone, especially the first one, as it can crucially steer and influence the further implementation of the project, starting from reviewing [...]



2nd project general assembly

2nd-3rd December 2021, Digital Event In beginning December PRELUDE project 2nd-3rd December 2021, Digital Event. The meeting was held for the second general assembly. The meeting was held for the second general assembly. The meeting was held for the second general assembly.

Partners





Take part

Take part in Prelude Project and give us your opinion. We appreciate your feedback!

TAKE PART


Newsletter

Interested to stay updated about PRELUDE project developments? Subscribe to our newsletter!

Email

I authorize UniSMART-Fondazione Università degli Studi di Padova to process my data in order to subscribe to the newsletter

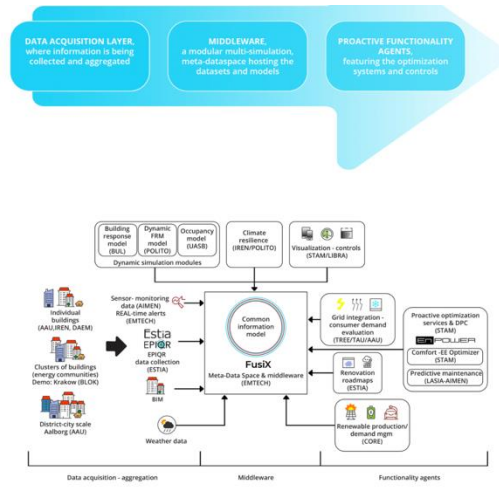
SUBSCRIBE



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement N° 958345.
Call Identifier: LC-FEB-07-2020

[Privacy & Cookies Policy](#)

Figure 3 – Homepage 1/2



Innovations

Home > Project > Innovations









 Decision support systems with modular multisimulation capacity (Fusix middleware)	 Data predictive control (DPC) for proactive building optimization	 Predictive maintenance applied in residential buildings	 Smart approach to assessment and renovation
 Proactive buildings in the context of neighbourhoods and districts	 Building optimization through the Free Running Model	 Realizing passive cooling and ventilation and maintaining comfort	 MFOS – Multirole Fiber Optic Sensors – versatile and with high potential

Figure 4 – Overview and Innovation pages



Ambition

The overall ambition of PRELUDE can be expressed in three levels:

- For the European citizen, PRELUDE will be poised to deliver quality of life, wellbeing, comfort, cost-savings or even revenue, education and sustainability regardless of their financial means.
- For building owners, managers, utility and other building or energy related service providers, PRELUDE will solve issues and address challenges inhibiting investment in RES (Renewable Energy Sources) and VREs (Variable Renewable Energy), increasing the value of their properties and creating new ways to build rapport with their customers.
- For regional organizations, municipalities, associations and the European society as a whole, PRELUDE will contribute to improving the prosperity, achieving energy security and the realisation of climate and energy goals.

Impacts

- Maintenance cost reductions of at least 20%: equipment is maintained at a continuously high level of performance rather than waiting for something to fail
- Significant decrease of energy use in buildings through application of technologies such as dynamic models, big data analytics, predictive analytics and ultimately artificial intelligence
- Improved indoor environment quality and user satisfaction
- High replication potential: By 2027, approximately 5.5 million m² of residential heated area will be optimized
- Optimise the use of renewable energy resources used in buildings. PRELUDE is designed to increase the value of installed RES (Renewable Energy Sources), but also to motivate end users to invest in them
- Contribution to standards, namely the establishment of a Smart Readiness Indicator



Figure 5 - Ambition & Impacts

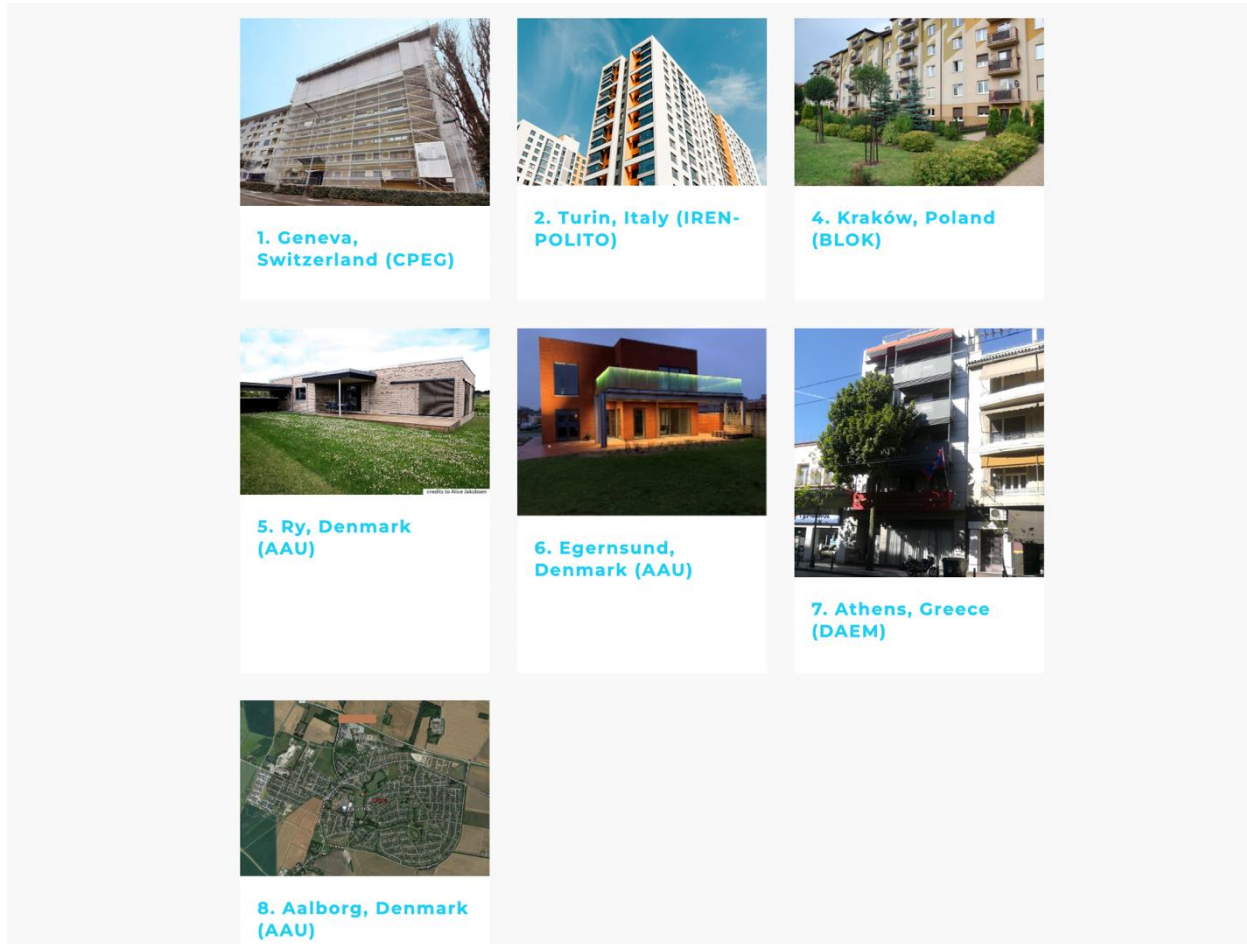


Figure 6 - Demo Cases page

Publications

- [A Low-Cost Monitoring Platform and Visual Interface to Analyse Thermal Comfort in Smart Building Applications Using a Citizen-Scientist Strategy](#)
- [Using data from smart energy meters to gain knowledge about households connected to the district heating network: a Danish case](#)

Deliverables

WP2: Streamlining data acquisition processes

- [D2.3: Integrated EPIQR platform](#)

WP3: Interoperable dynamic module integration in multisimulation dataspace

- [D3.2: Dynamic FRM module](#)
- [D3.4: Indoor-outdoor correlation module](#)

WP5: Scale up and integration

- [D5.2: VRE integration models](#)
- [D5.3: DH integration tools](#)

WP6: Validation and demonstration in relevant environment

- [D6.3: PRELUDE validation and LL demo report](#)

WP7: Demonstrations in operational environment

- [D7.2: Demo site report / #1 - Switzerland](#)
- [D7.3: Demo site report / #2 - Turin](#)
- [D7.4: Demo site report / #3 - Krakow](#)
- [D7.5: Demo site report / #4 - Athens](#)

Figure 7 – Publications and Public deliverable pages

1A Ingenieros S.L.P

1A Ingenieros, a leading company in the construction engineering sector in Castilla y León, started life in 1997. Since then, it has grown steadily as a business, expanding its operational capacity into numerous...

READ MORE



Aalborg University

Aalborg University (AAU) was inaugurated in 1974 as the fifth Danish university with more than 20,000 students registered and more than 2500 scientific staff-year. The Architectural Engineering division at the...

READ MORE



AIMEN Technology Centre

AIMEN is a Non-Profit association, located in the Northwest of Spain and constituted by about 80 companies, which supplies technological support to more than 500 companies dedicated to industrial activity related to...

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BLOK Architekci

Polish architectural studio focused on sustainability in architecture & building sector via BIM & LBC. Designs an affordable and modern architecture, inspired by Scandinavian style characterized by simplicity,

READ MORE



Figure 8 – Partners page screenshot

2.1 TECHNICAL ASPECTS

The website has been designed with WordPress that is a free and open-source content management system (CMS). This decision was driven by the ease of performing content-updating activities and the flexibility the platform provides the website manager with. The result is a modern, user-friendly interface aimed at making the user experience pleasant and effective, in terms of driving key contents.

2.2 SEO AND WEB ANALYTICS

Before publishing the PRELUDE website, a SEO (Search Engine Optimization) study has been implemented in order to optimize the quality and quantity of the activities connected with the project and to answer the search of the users. Through this preliminary activity, search engines should be able effectively access and index-link the project website pages, in relation to the visitor's query. As a direct consequence, the implementation of the website content has kept into account these considerations and specific technical attention has been put in this regard. Moreover, the Project Consortium was actively engaged to maximise the effectiveness of these operations: all the partners were asked to link the project website in their corporate websites. The overall objective of SEO activities is to make the PRELUDE project website more visible and more easily accessible.

Furthermore, a web analytics tool has been associated to the project website, in order to track visitors' activities and interactions. The primary reason is to collect reliable data to be confronted against Dissemination KPIs and evaluate the project's impact and visibility. Secondly, user-profiling activities could be implemented, in order to drive key content to the relevant stakeholders.

2.3 SOCIAL MEDIA

In parallel with the construction of the website, also presence on social media has been implemented for the PRELUDE project. After a preliminary discussion with the consortium, it has been decided to create LinkedIn and Twitter profiles. They will be mainly used to disseminate the project's News & Events and main technical updates or achievements and, to do so, they will be constantly updated.

Social media references have been included in the project website, from which it is possible to directly reach the relevant pages by simply clicking on the social media logos (see Figure 9).

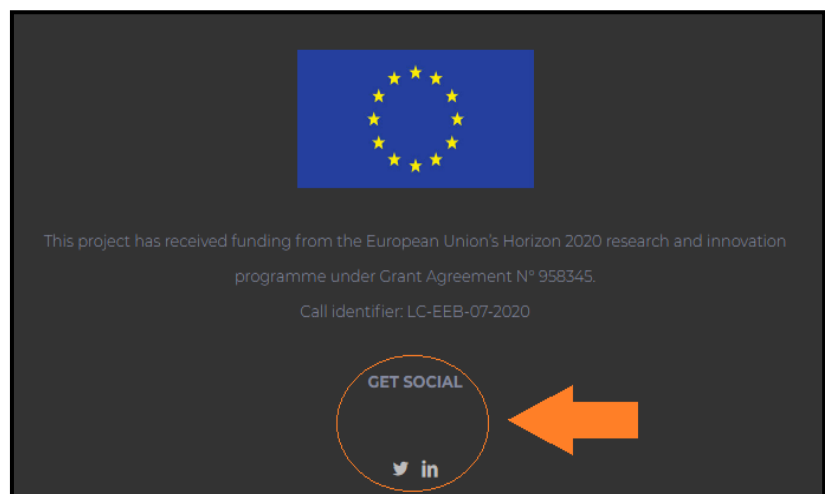


Figure 9 - Footer with link to social media



LinkedIn



Twitter

Figure 10 – QR codes pointing to PRELUDE's social media

3. CONCLUSIONS

In this document, a brief presentation of PRELUDE Project website was given, with specific concern to its final structure, starting from initial requirements and objectives to be targeted. Periodical feedback from project coordinator and proactive partners involved in DEC activities, had led to the submitted version that (must be pointed out) is not rigid, definitive and invariable: PRELUDE Project website will be constantly updated with new contents, improved and enhanced, with the purpose of representing an effective instrument of dissemination.

The aim of the website is multiple: primary landing place for any user willing to know about PRELUDE; updated showcase for project results; to give indication about PRELUDE related news, events, publication; to host a standard "media kit" for press use and resources for public use; to be the touch point towards project coordinator and partners.

PRELUDE website will hopefully funnel many necessities that finally hark back to one main demand: disseminate project features, potential and results.

Website URL: <http://www.prelude-project.eu>