



**Grant Agreement No.:** 637261

**Project acronym:** E2VENT

**Project title:** Energy Efficient Ventilated Facades for Optimal Adaptability and Heat Exchange enabling novel NZEB architectural concepts for the refurbishment of existing buildings

**Research and Innovation Action**

**Topic:** EeB-02-2014 Adaptable envelopes integrated in building refurbishment projects

**Starting date of project:** 1<sup>st</sup> of January 2015

**Duration:** 42 months

## D7.1 – Website design and continuous updates

<b>Organisation name of lead contractor for this deliverable: DAPP</b>		
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	Authors	Petra Novotna ( <i>as representative of FENIX project team</i> )

<b>Revision table for this deliverable:</b>		
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<b>Dissemination Level</b>		
<b>PU</b>	Public	X
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	



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## Executive Summary

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The Deliverable D7.1 is a public document of the E2VENT project, delivered in the context of WP7 Dissemination, Task 7.1 Communication and Dissemination Plan. The deliverable 7.1 consists in the website of the E2VENT project. The present document is the description of the website and is not a public document.

The objective of WP7 is to secure the successful dissemination of the E2VENT project through the implementation and deployment of an awareness and dissemination plan.

This document presents the first step in the partial objective of developing and deploying an awareness and dissemination plan: the E2VENT project website. As a first step the logo of the project, dictating the visual identity was developed. Once that was ready an entire website was constructed utilizing the visual identity. The website is available online and can be accessed at [www.e2vent.eu](http://www.e2vent.eu).

# 1 Introduction

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The Deliverable D7.1 is a public document of the E2VENT project, delivered in the context of WP7, Task 7.1 Communication and Dissemination Plan. The objective of WP7 is to secure the successful dissemination through the implementation and deployment of an awareness and dissemination plan. This document presents the first step in the partial objective of developing and deploying an awareness and dissemination plan: the E2VENT project website. As a first step the logo of the project, dictating the visual identity was developed. Once that was ready an entire website was constructed utilizing the visual identity. The website is available online and can be accessed at [www.e2vent.eu](http://www.e2vent.eu).

The website is not intended to be static. News and events sections as well as the rest of the content will be continuously updated and managed by the Dissemination WP leader throughout the lifetime of the project. Different audiences are being considered and the information while technical and complete, it has been streamlined and presented in a way that is accessible by wide range of stakeholders.

An initial version of the E2VENT project website has been designed, provisioned and deployed on the internet. The site is hosted by NOBATEK - project coordinator, under domain [e2vent.eu](http://e2vent.eu). It has been designed to quickly address the key questions that external visitors to the website are expected to have:

- What is the project about?
- Who is participating in the project?
- What additional details are available?
- Who to contact for more information?

Google Analytics as key performance indicator has been considered and deployed at this early stage of the project (e.g. users, countries, languages, browsers, devices, etc.).

Website was designed considering display on different devices such as desktop, mobile or tablet.

## 2 Design and registration data

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The E2VENT project website has been created during the early project stage and launched under the <http://www.e2vent.eu>. Webhosting was bought in provider WEDOS, registration data are given in Picture 1. On the website creation were used these programming languages: html, php, database MySQL, Java Script and reduction system based on the Open Force.

### Information

Order No.	3215022217
Status	<b>active</b>
Ordered	24.03.2015 17:29:13
Created	26.03.2015 09:17:33
Expiration	<b>26.03.2016 (362 days) (renew)</b>
Operating system	Linux
WWW size *	1 MB
E-mails size *	0 MB
Database size *	0 MB
Accounting without VAT	no
Before expiration	request for payment with notifications

support IPv6 (AAAA records)

only if the domain uses our DNS servers  
[\(more info about IPv6\)](#)

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Internal Web address:  
<http://97159.w59.wedos.ws/>

### Services addresses

WWW IPv4	46.28.105.129
WWW IPv6	2a02:2b88:14::78
FTP	97159.w59.wedos.net
MX	we3-mx.wedos.net
IMAP(S)	imap-97159.m59.wedos.net
POP3(S)	pop-97159.m59.wedos.net
SMTP(S)	smtp-97159.m59.wedos.net
Webmail IceWarp	<a href="mailto:webmail-97159.m59.wedos.net">webmail-97159.m59.wedos.net</a>

Our DNS servers:  
 ns.wedos.net  
 ns.wedos.eu  
 ns.wedos.cz  
 ns.wedos.com

NSSET to CZ.NIC WEDOS

[Webmail](#)  
[WebFTP](#)

### FTP accounts [ create new ]

login	status
<input type="text" value="w97159"/>	active

### Database [ create new ]

name	type	status	size *
No database on this webhosting			

### Aliases [ manage aliases ]

name
Webhosting has no alias

### E-mail boxes [ manage mailboxes ] [ e-mail settings ]

name
admin

### Optional services activated [ service settings ]

name
Extra package

Picture 1 – website registration data

### 3 Website description

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The website has been set up under the address [www.e2vent.eu](http://www.e2vent.eu). The site is hosted by NOBATEK as project coordinator. It has been designed to quickly address the key questions that external visitors to the website are expected to have:

- What is the project about?
- Who is participating in the project?
- What additional details are available?
- Who to contact for more information?

The site itself is split into two sections - private and public. The public section, which is accessible to everyone, contains:

- general information about the aim of the project
- partners' details
- list of events and news
- all public material that will be generated by the project
- links to social network profiles
- newsletter subscription
- contact information

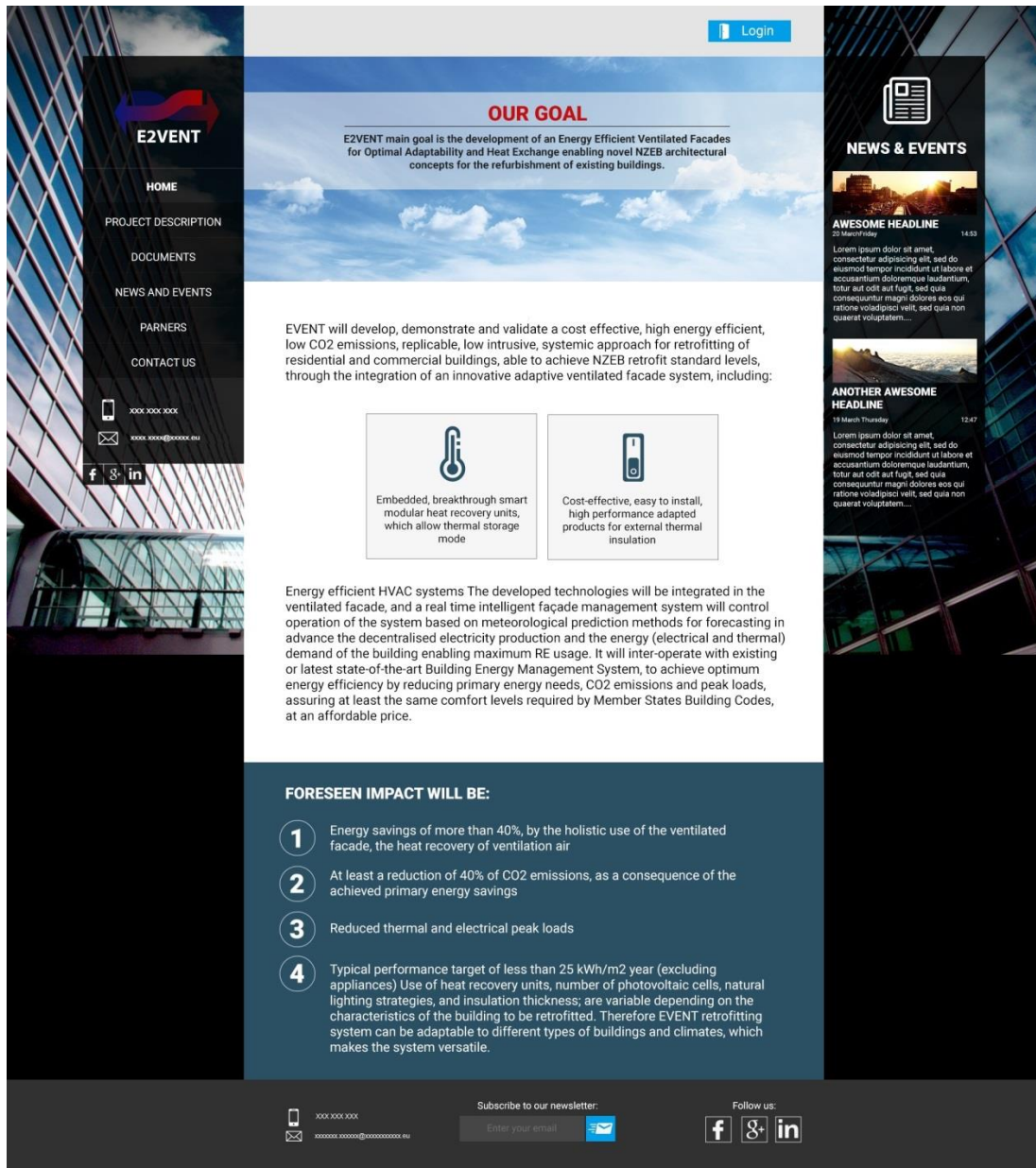
The second part of the website is a private section that is only available to the project partners and can be accessed via log-in credentials. This restricted section contains:

- information about meetings
- deliverables and management reports
- administrative documents and forms
- planned publications
- work packages
- other documents
- forum for internal communication between partners

The web site is planned to provide information available to the project partners and to the wider public. In the following subsections the single elements - sections and their intended use are be described.

### 3.1 Home Page

The home page of the E2VENT website contains project description, goal and impact. This part of the website will remain more or less static throughout the project. The left part of the screen shows a navigation panel, using a structure that is commonly used, at the top of the page the project’s logo is placed, at the bottom of the page project identifiers and EU collaboration is mentioned.

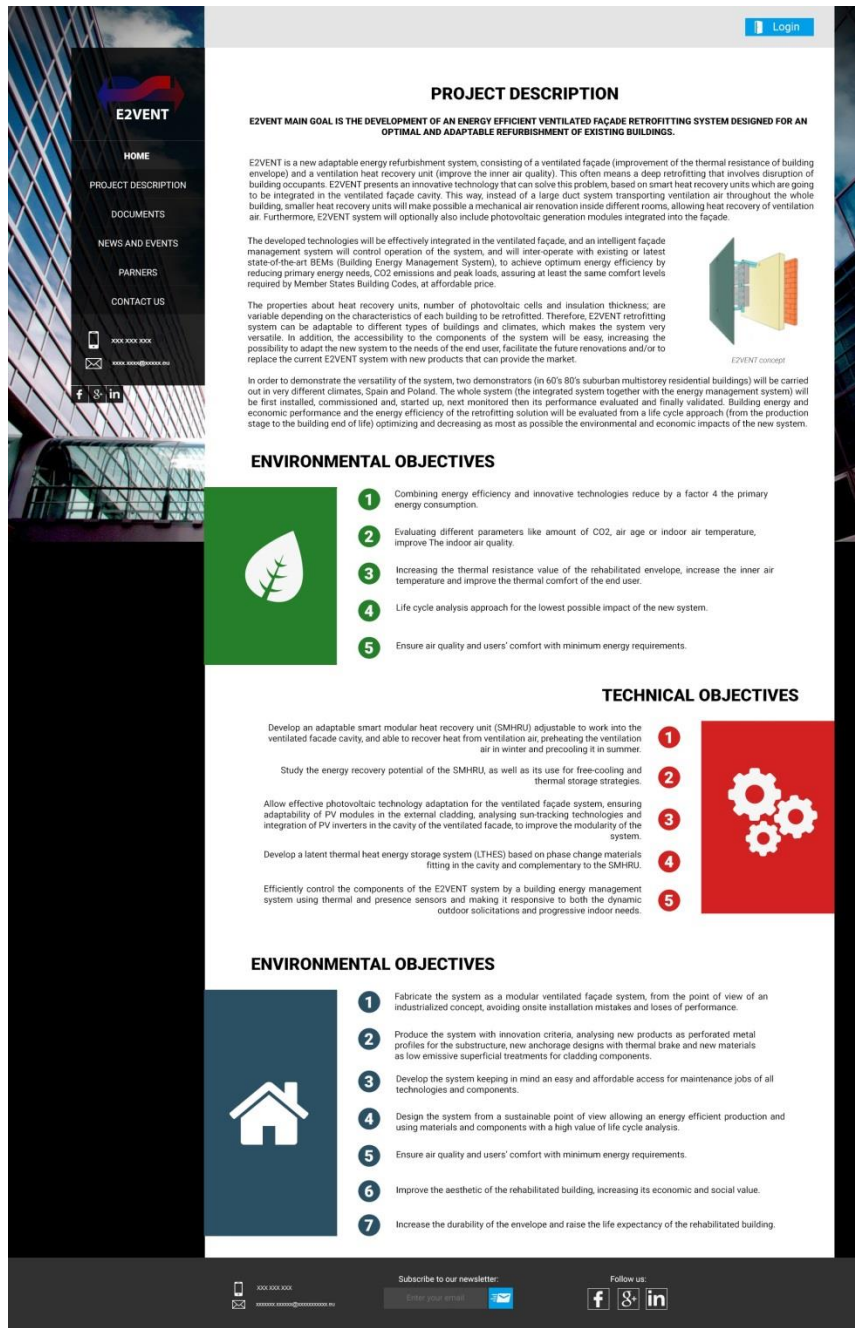


Picture 2 – Home page section



## 3.2 Project Description page

Project description page presents the overall concept and expected impact of the project such as innovation, system features, targeted market, info about demonstration buildings.



The screenshot shows a website page for 'E2VENT' with a dark sidebar on the left containing navigation links: HOME, PROJECT DESCRIPTION, DOCUMENTS, NEWS AND EVENTS, PARTNERS, and CONTACT US. The main content area is white and features a 'Login' button in the top right corner. The page is divided into three main sections:

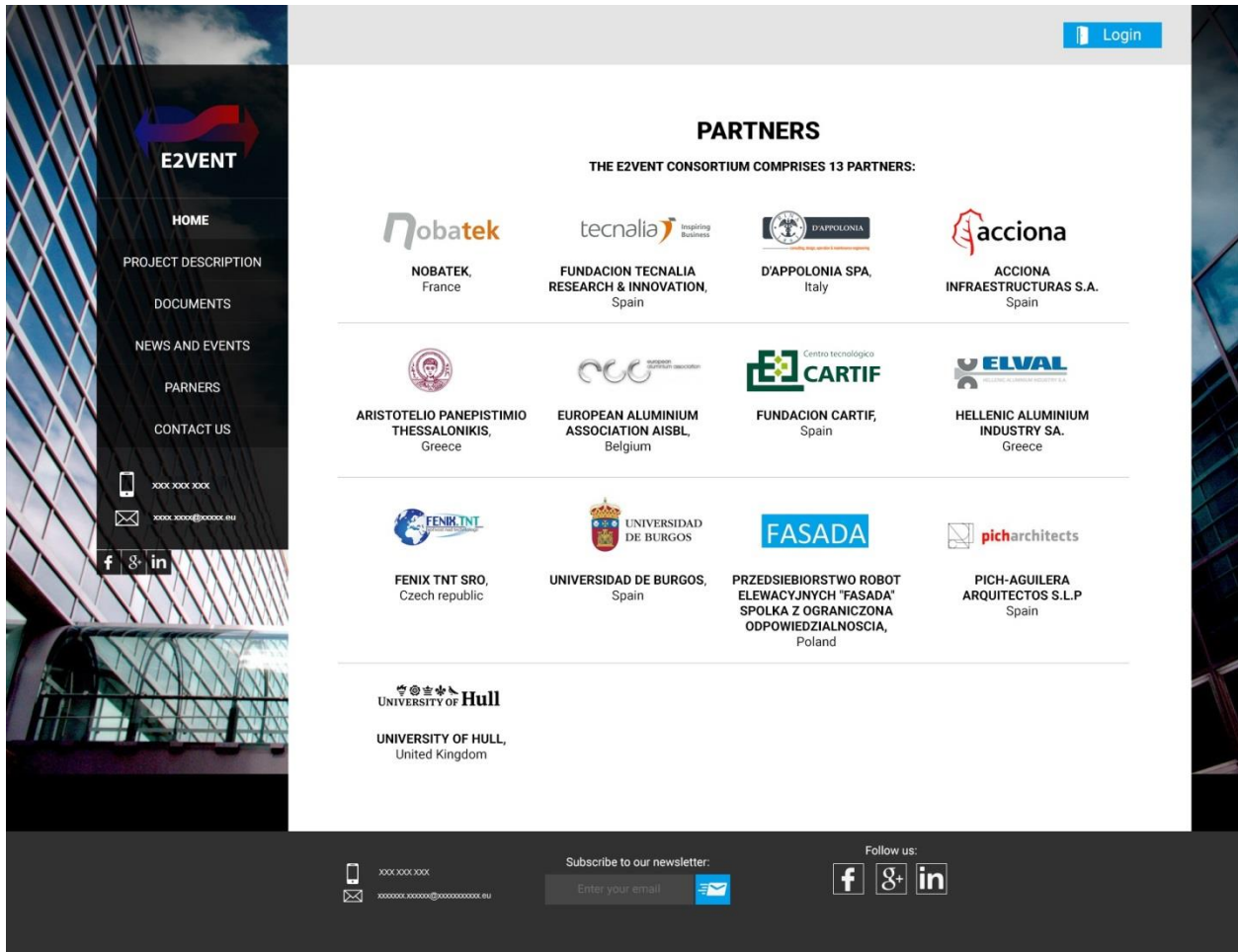
- PROJECT DESCRIPTION:**
  - PROJECT DESCRIPTION**
  - EZVENT MAIN GOAL IS THE DEVELOPMENT OF AN ENERGY EFFICIENT VENTILATED FAÇADE RETROFITTING SYSTEM DESIGNED FOR AN OPTIMAL AND ADAPTABLE REFURBISHMENT OF EXISTING BUILDINGS.**
  - EZVENT** is a new adaptable energy refurbishment system, consisting of a ventilated façade (improvement of the thermal resistance of building envelope) and a ventilation heat recovery unit (improve the inner air quality). This often means a deep retrofitting that involves disruption of building occupants. EZVENT presents an innovative technology that can solve this problem, based on smart heat recovery units which are going to be integrated in the ventilated façade cavity. This way, instead of a large duct system transporting ventilation air throughout the whole building, smaller heat recovery units will make possible a mechanical air renovation inside different rooms, allowing heat recovery of ventilation air. Furthermore, EZVENT system will optionally also include photovoltaic generation modules integrated into the façade.
  - The developed technologies will be effectively integrated in the ventilated façade, and an intelligent façade management system will control operation of the system, and will inter-operate with existing or latest state-of-the-art BEMs (Building Energy Management System), to achieve optimum energy efficiency by reducing primary energy needs, CO2 emissions and peak loads, assuring at least the same comfort levels required by Member States Building Codes, at affordable price.
  - The properties about heat recovery units, number of photovoltaic cells and insulation thickness, are variable depending on the characteristics of each building to be retrofitted. Therefore, EZVENT retrofitting system can be adaptable to different types of buildings and climates, which makes the system very versatile. In addition, the accessibility to the components of the system will be easy, increasing the possibility to adapt the new system to the needs of the end user, facilitate the future renovations and/or to replace the current EZVENT system with new products that can provide the market.
  - In order to demonstrate the versatility of the system, two demonstrators (in 60's 90's suburban multistorey residential buildings) will be carried out in very different climates, Spain and Poland. The whole system (the integrated system together with the energy management system) will be first installed, commissioned and, started up, next monitored then its performance evaluated and finally validated. Building energy and economic performance and the energy efficiency of the retrofitting solution will be evaluated from a life cycle approach (from the production stage to the building end of life) optimizing and decreasing as most as possible the environmental and economic impacts of the new system.
- ENVIRONMENTAL OBJECTIVES:**
  - ENVIRONMENTAL OBJECTIVES**
  - 1 Combining energy efficiency and innovative technologies reduce by a factor 4 the primary energy consumption.
  - 2 Evaluating different parameters like amount of CO2, air age or indoor air temperature, improve The indoor air quality.
  - 3 Increasing the thermal resistance value of the rehabilitated envelope, increase the inner air temperature and improve the thermal comfort of the end user.
  - 4 Life cycle analysis approach for the lowest possible impact of the new system.
  - 5 Ensure air quality and users' comfort with minimum energy requirements.
- TECHNICAL OBJECTIVES:**
  - TECHNICAL OBJECTIVES**
  - Develop an adaptable smart modular heat recovery unit (SMHRU) adjustable to work into the ventilated façade cavity, and able to recover heat from ventilation air, preheating the ventilation air in winter and precooling it in summer.
  - Study the energy recovery potential of the SMHRU, as well as its use for free-cooling and thermal storage strategies.
  - Allow effective photovoltaic technology adaptation for the ventilated façade system, ensuring adaptability of PV modules in the external cladding, analysing sun-tracking technologies and integration of PV inverters in the cavity of the ventilated façade, to improve the modularity of the system.
  - Develop a latent thermal heat energy storage system (LTHES) based on phase change materials fitting in the cavity and complementary to the SMHRU.
  - Efficiently control the components of the EZVENT system by a building energy management system using thermal and presence sensors and making it responsive to both the dynamic outdoor solicitations and progressive indoor needs.
- ENVIRONMENTAL OBJECTIVES:**
  - ENVIRONMENTAL OBJECTIVES**
  - 1 Fabricate the system as a modular ventilated façade system, from the point of view of an industrialized concept, avoiding onsite installation mistakes and losses of performance.
  - 2 Produce the system with innovation criteria, analysing new products as perforated metal profiles for the substructure, new anchorage designs with thermal brake and new materials as low emissive superficial treatments for cladding components.
  - 3 Develop the system keeping in mind an easy and affordable access for maintenance jobs of all technologies and components.
  - 4 Design the system from a sustainable point of view allowing an energy efficient production and using materials and components with a high value of life cycle analysis.
  - 5 Ensure air quality and users' comfort with minimum energy requirements.
  - 6 Improve the aesthetic of the rehabilitated building, increasing its economic and social value.
  - 7 Increase the durability of the envelope and raise the life expectancy of the rehabilitated building.

The page also includes a 'Login' button, a 'Subscribe to our newsletter' form, and social media icons for Facebook, Google+, and LinkedIn.

Picture 3 – Project Description section

### 3.3 Partner's page

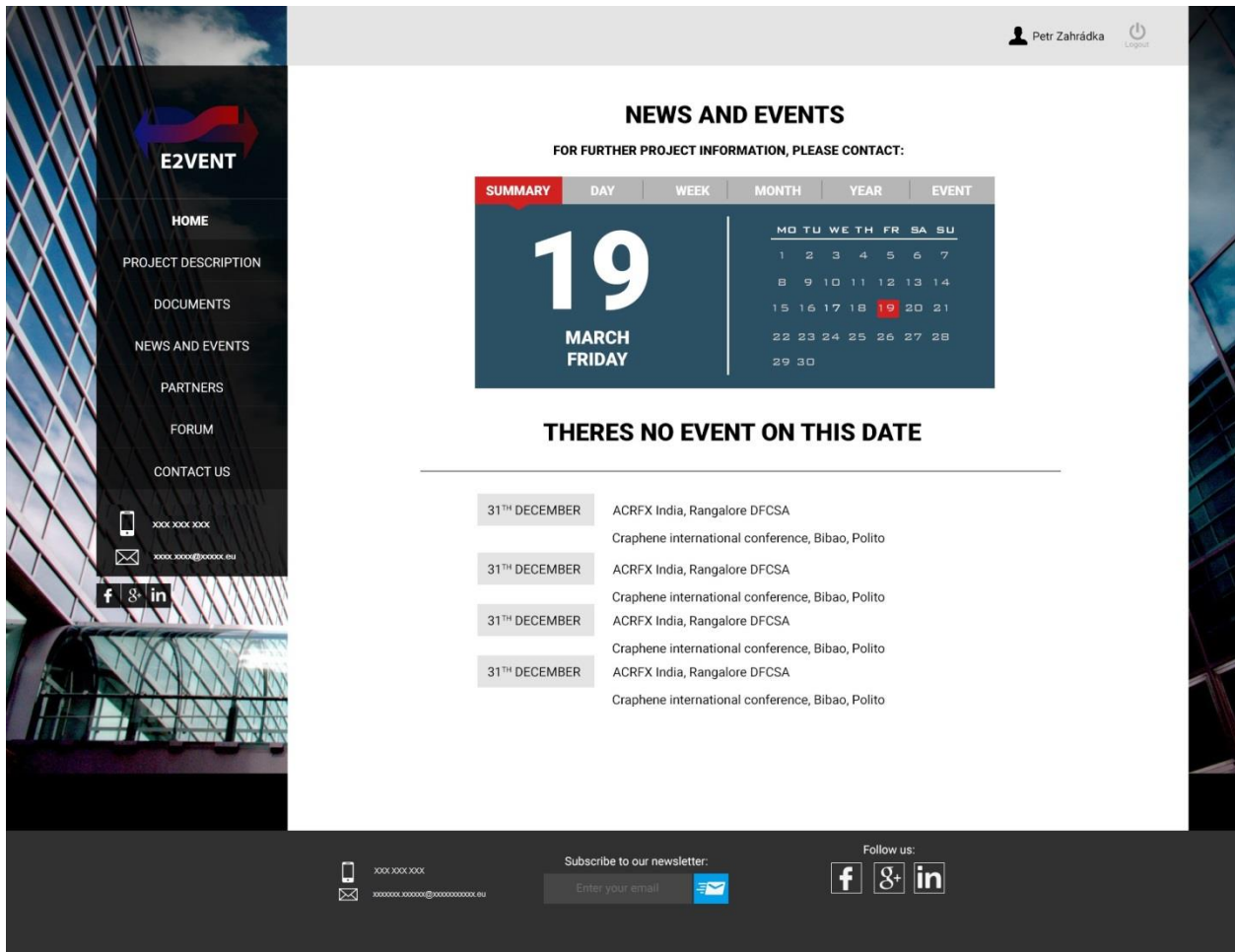
This part of the web site contains information about the partners involved in the E2VENT project. It shows each partner's logo and provides a short description and a link to the partner's homepage. This part of the website will also be static, except for the case of partner changes in the project.



Picture 4 – Partner's section

### 3.4 News and Events page

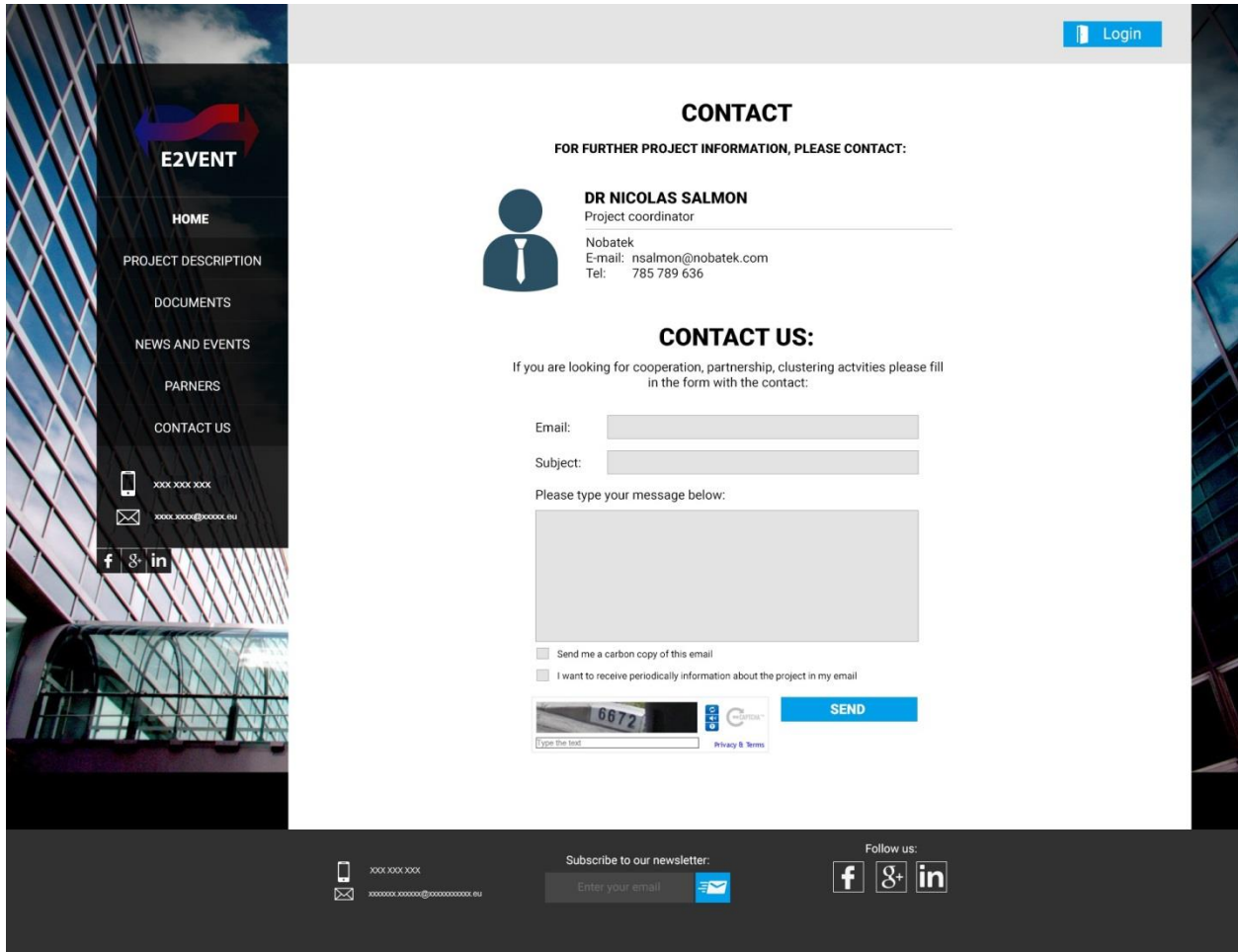
This page will present a list of events, which will include all meetings of the project partners and important events in which a large group of the consortium partners participate, such as conferences, fairs, workshops, etc. Short info about the most relevant and upcoming news is on the right up part of the website.



Picture 5 – News and Events section

### 3.5 Contact page

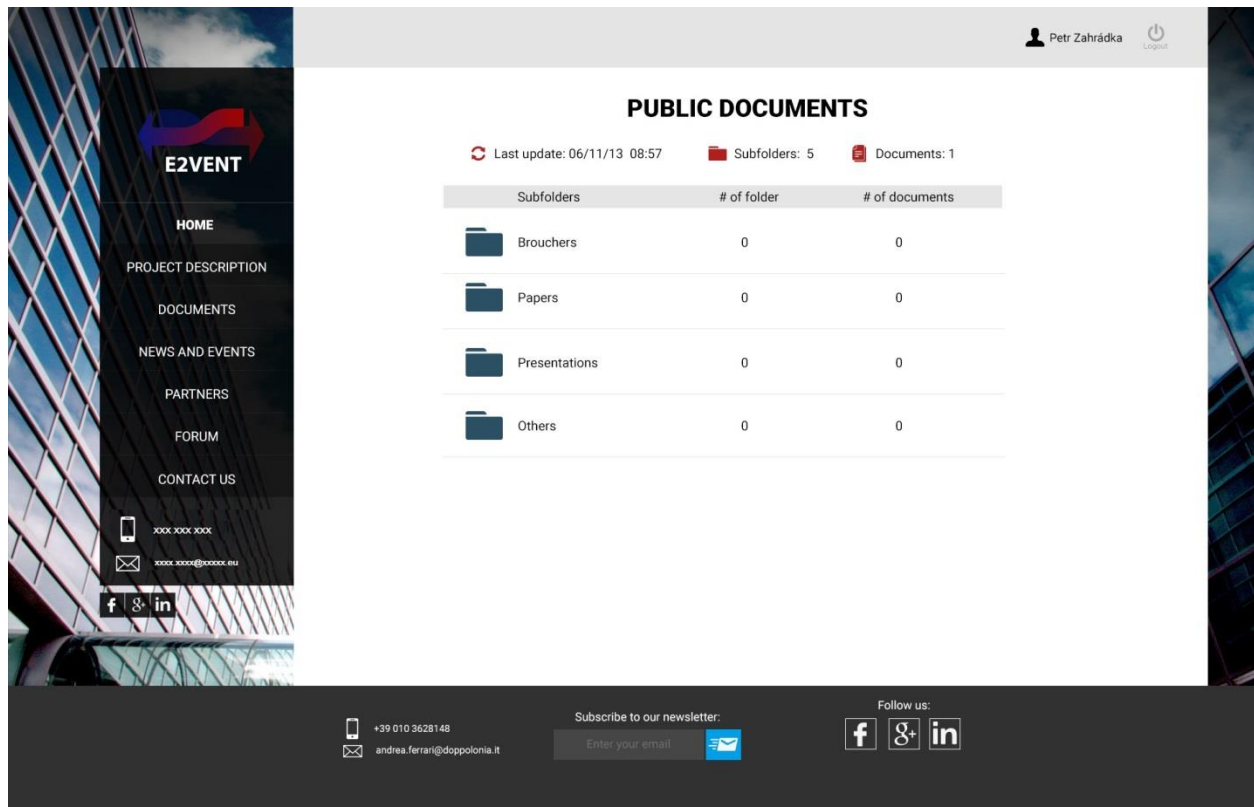
The last part of the public section contains contact information of the coordinator. It is intended for any inquiries by interested parties.



Picture 6 – Contact section

### 3.6 Public Documents page

The “public documents” section will contain all materials that has been published and is thus publicly available (respecting copyright issues). It will also help the consortium to fulfil its obligations relating to special clause 39 (“open access”).



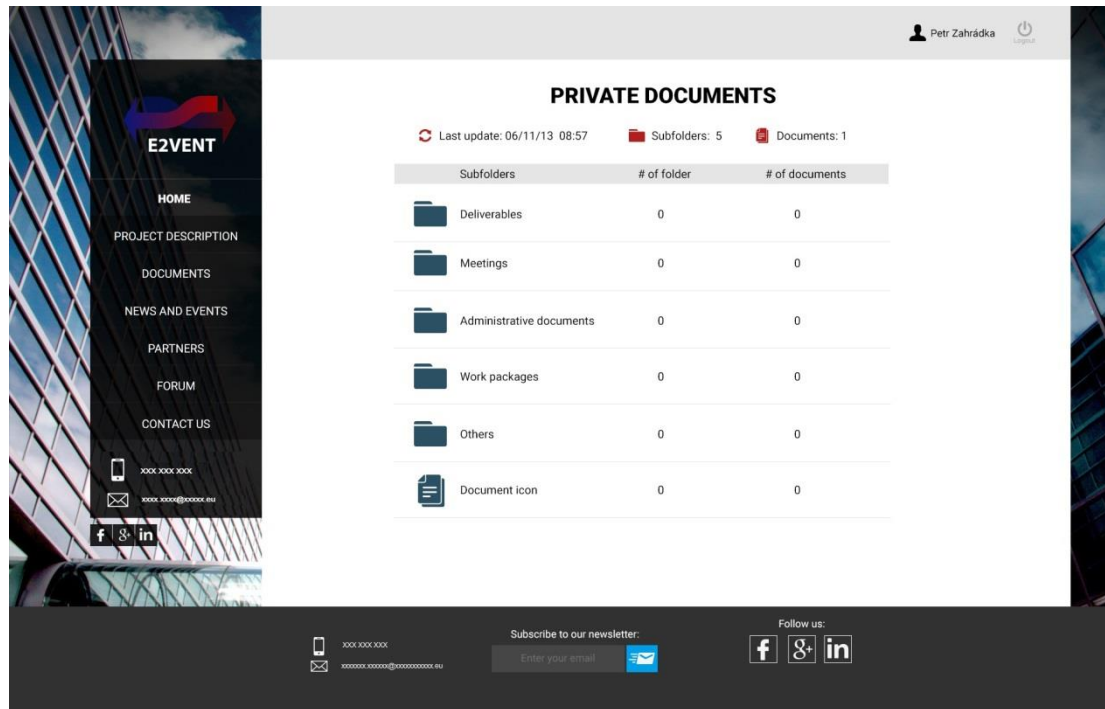
Picture 7 – Public Documents section

### 3.7 Member login – private section

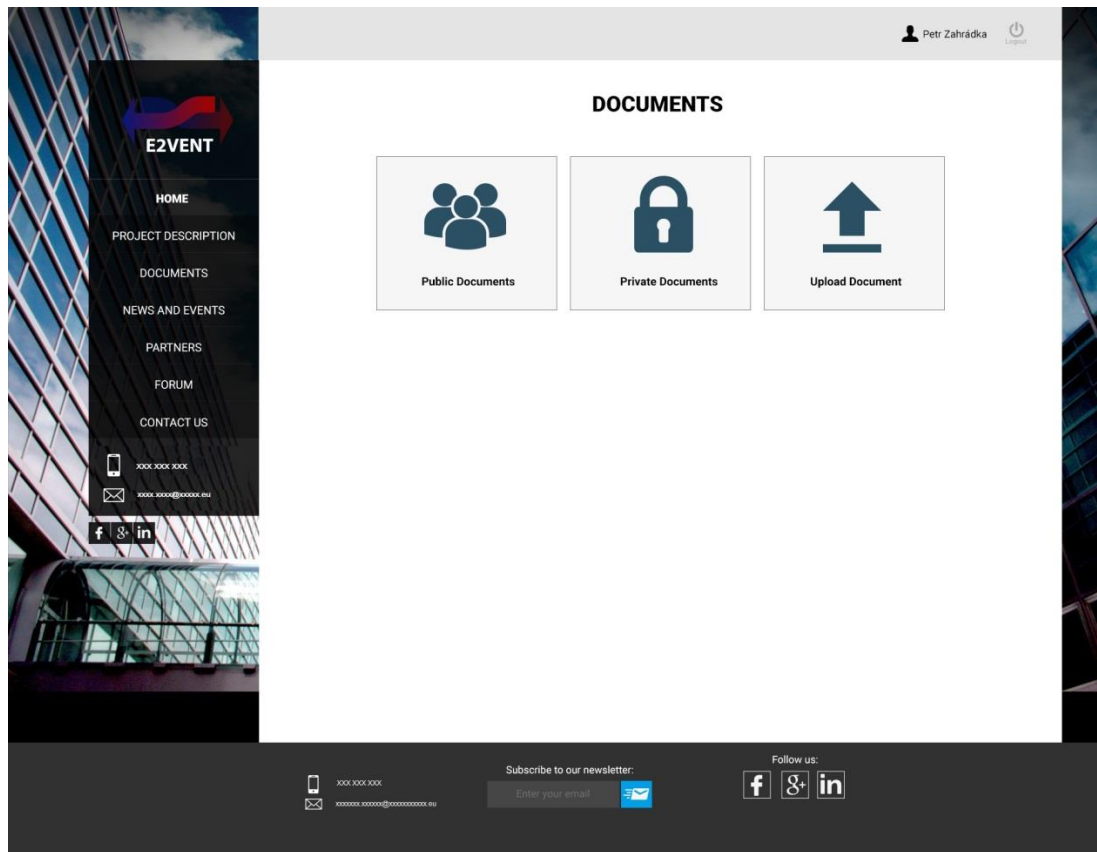
The secure area is accessed only by the project partners, furthermore, full access will be also granted to the European Commission Officers, if necessary. In this section the partners can login using their individual access data. Each partner is provided with a username and password in order to validate their access to the secure area. In this webpage each partner is able to visualize the contents of the project (for which they have authorization), which at the moment is subdivided in different folders:

- Deliverables (In this folder all the submitted Deliverables of each Work Package will be available for all partners.)
- Meetings (In this folder all information related to the meetings will be made available by the E2VENT project administration. The information includes the agenda of the meetings, the presentations made by each partner-participant as well as the meeting minutes of the meetings, ToDos that was generated during the meeting.)
- Administrative documents (This folder will contain all the documents that are related to the project and concern the communication and cooperation among the partners or between the consortium and the EC are available.)
- Work Packages (This folder include information – reports/tests/ demo/presentations related to each work package)
- Other (Other documents related to project/partners)

This section of the website will grow throughout the project.



Picture 8 – Private Documents section



Picture 9 – Documents Upload section

### 3.8 Forum page

This section is part of the private area of the E2VENT website, thus available only for the partners who are logged in. It will be common communication place for exchange of technical issues and discussions among the partners. Classification will be done based on individual work packages.

## 4 Future work

Short term improvements to the website under consideration at the time of writing include:

- social network profiles to be created and linked on the website
- monitoring tests available and linked on the website
- partner's interview (performed during Kick off meeting) added on the partner' s page section
- short video clip introducing E2VENT project displayed on the home page

## 5 Conclusion

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The on-line E2VENT website is a key element of the project's dissemination strategy. This site will ensure the visibility of the project, facilitate the diffusion of the project's results and promote their exploitation.

An initial version of the E2VENT project website has been designed, provisioned and deployed on the internet. Consisting mostly of static content, it has been designed to quickly answer the key questions that external visitors to the website are expected to have. The project website will continuously form and develop as the project itself grows.

The information included on the project website is likely to be valuable even after the project has finished. Therefore, the consortium aims at ensuring that the website will continue to exist after the project funding has finished and that bookmarks and published URLs will continue to function.