BaaS

Building as a Service

FP7-ICT-2011-6: ICT Systems for Energy Efficiency
Small or Medium-scale Focused Research Project
Grant Agreement No. 288409

Deliverable D7.2:

Communicaton Tools

Deliverable Version:	D7.2, v.3.0
Document Identifier:	baas_wp7_d7.2_communication_tools_3.0
Preparation Date:	May 10, 2016
Document Status:	Final
Author(s):	Andriy Hryshchenko, Marguerite Reardon, Karsten Menzel (UCC), Susana Martín, Cesar Valmaseda, Cristina de Torre (CARTIF), Jiri Rojicek (HON), Dimitrios Rovas (TUC), Martin Floeck (NEC), Juan Rodriguez (Fraunhofer), Javier Martin (DALKIA)
Dissemination Level:	PU - Public

Project funded by the European Community in the 7th Framework Programme

ICT for Sustainable Growth

Deliverable Summary Sheet

Deliverable Details

Type of Document:	Deliverable
Document Reference #:	D7.2
Title:	Communicaton Tools
Version Number:	3.0
Preparation Date:	May 10, 2016
Delivery Date:	May 10, 2016
Author(s):	Andriy Hryshchenko, Marguerite Reardon, Karsten Menzel (UCC), Susana Martín, Cesar Valmaseda, Cristina de Torre (CARTIF), Jiri Rojicek (HON), Dimitrios Rovas (TUC), Martin Floeck (NEC), Juan Rodriguez (Fraunhofer), Javier Martin (DALKIA)
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Project Details

Project Acronym:	BaaS
Project Title:	Building as a Service
Project Number:	288409
Call Identifier:	FP7-ICT-2011-6
Call Theme:	ICT Systems for Energy Efficiency
Project Coordinator:	Fundacion Cartif (CARTIF)
Participating Partners:	Fundation Cartif (CARTIF, ES); NEC Europe Ltd. (NEC, UK); Honeywell, SPOL, S.R.O (HON, CZ); Fraunhofer-Gesellschaft zur Förderung der Angewandten Forschung e.V. (Fraunhofer, DE); Technical University of Crete (TUC, GR); University College Cork, National University of Ireland, Cork (UCC-IRU, IE) Dalkia Energia y Servicios (DALKIA, ES)
Instrument:	STREP
Contract Start Date:	May 1, 2012
Duration:	48 Months

Deliverable D7.2: Short Description

This document describes the plan for the BaaS project outputs dissemination.

Keywords: dissemination, public awareness

Deliverable D7.2: Revision History

Version:	Date:	Status:	Comments
0.1	18/10/2012	Draft	UCC: initial draft
0.2	19/10/2012	Draft	CARTIF: review and new content
0.3	22/10/2012	Draft	UCC: further amendments to content
0.4	26/10/2012	Draft	HON: review and comment
0.5	31/10/2012	Draft	CARTIF: addition of new content
0.6	07/11/2012	Draft	CARTIF: addition of new content
1.0	12/11/2012	Final v1.0	CARTIF: final version for submission
1.1	30/04/2013	Draft	HON: updating to month12
1.2	31/05/2013	Int. Report	CARTIF: addition new content and publishing to submit as new intermediate report
2.1	20/04/2016	Review	UCC: review of the structure, additional information, updates implemented
3.0	09/05/2016	Final	UCC: Final updates

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Abbreviations and Acronyms

BaaS	Building as a Service
CMYK	Cyan, Magenta, Yellow, Key
EC	European Commission
EPBD	Energy Performance of Buildings Directive
EU	European Union
FP7	Framework Programme 7th
ICT	Information and Communication Technologies
ICT4EE	Information and Communication Technologies for Energy Efficiency
RGB	Red, Green, Blue
WP	Work Package

Executive Summary

This document details the mechanisms that will be used to exploit and disseminate achievements concerning BaaS research. Over the course of the BaaS project, this document was updated and submitted to the commission on a six monthly basis presenting an overview of the continued efforts, status and tools used for dissemination. This is a final version of this document.

The communication activities of the BaaS research aiming to update all project stakeholders and wider industry and academic based audiences. The highest care taken regarding information released into the public domain so that it does not impact negatively on BaaS research results.

1 Introduction

1.1 Purpose

This document is the result of task 7.2 whose objective is to create a "project identity" and produce a set of tools to give visibility to the project and support all activities described in the WP7 (Exploitation, dissemination, standardization), particularly in Task 7.1. Most of these communication tools were used throughout the project' life cycle.

1.2 Contribution from partners

The deliverable 7.2 has been developed with the following contributions from the BaaS partners:

- UCC-IRU is the task leader. They have worked on the development of the brochure and the newsletters.
- CARTIF has developed the BaaS public website and the SharePoint collaboration platform. They have developed the logo, the flyer, and the templates and have created a group in LinkedIn for the project, as well as newsletter contributions.
- HON, as work package leader, has accelerated the development of tasks in this work package

All the partners of this consortium have collaborated in the contents of the brochure.

1.3 Relationship with other WPs

This version of deliverable 7.2 is relevant to all WPs as it documents final results with representation of our communication tools applied up to date so that scientific and technical objectives of BaaS research can be promoted in the best way possible.

2 Timeline structure of the document

Table 1 below outlines the key dissemination events that have occurred since the outset of the BaaS project.

The columns in Table 1 below providing only general information, which is presented much more in details within deliverable D7.1 (cf. D7.1 Tables 1-4). The main purpose of this table is to timely orient the reader with BaaS-related communication activities performed during the project.

№	Mile-stone	Event	Distribution channels & Targeted audience
1	June 2012	REHVA World Congress and 8th International Conference on IAQVEC Prague	Three papers published in REHVA-2012 Conference Proceedings for wide audience
2	July 2012	Workshop organized by EEB Data Models Community on ECPPM-2012, Reykjavik	Paper published in ECPPM-2012 Conference Proceedings for wide audience
3		Department meeting Energy Systems, Fraunhofer IBP. Reinhardt Forest School, Fulda valley, Germany	Presentation of the concept of Baas to a group of researchers working in the areas of building physics.
4		BaaS Web-page, completely operative 23/07/2012, enabled SSL security layer connection 11/08/2012	Internet access for broad general public, industry representatives and research community
5	Sept 2012	EPSRC CommNet Smart Grid Workshop, Loughborough University, UK.	EPSRC Smart Grid Workshop (3 days) attended by of researchers working in the areas of EE in buildings.
6	Oct 2012	Issue 1 of BaaS Brochure - to create awareness about project and major areas of interest	BaaS Web-page, Mass-mail For Industry and research community contacts
7		International Symposium on Sustainable Energy in Buildings and Urban Areas; SEBUA-2012, Kusadasi, Turkey	Paper published in SEBUA-2012 Conference Proceedings for wide audience, two oral presentations.
8		International Conference for Enhanced Building Operations (ICEBO-2012), Manchester, UK	Paper published in ICEBO-2012 Conference Proceedings for wide audience
9		2012 IEEE Multi-Conference on Systems and Control, Control design for Energy-Efficient Buildings Workshop, Dubrovnik, Croatia.	Presentation for conference participants during the Special Sessions organized by "United Technologies"
10	Apr 2013	BaaS Newsletter, Issue № 1	Web-page, Mass-Mail for Industry and research community contacts, Open Day for PPP-projects (Feb/March 2013, Brussels)
11		SEMANCO Workshop Barcelona 11/12 April	Presentation of the concept of Baas to a group of researchers working in the Collaborative Project

			(STREP)
12		Greener Buildings workshop, TU Eindhoven	Oral presentation of the BaaS project and its progress to a group of academia and industry representatives
13	May 2013	Build-up, created on 18/05/2013	Internet access for broad general public, industry representatives and research community
14		Linked In group, created 17/05/2013 - Now with 122 members	Publicly available for potential members for CoI
15	June 2013	Issue 2 of BaaS Brochure - to create awareness about project achievements on date	For circulation at PPP-Info Day in Brussels and as input for Workshop in CESBP 2013 Conference in Vienna
16	Aug 2013	BS2013 by IBPSA Conference in Chambery, France	Paper published in BS2013 Conference Proceedings for wide audience
17	Sept 2013	Integrated Building Performance Management Workshop during the CESBP-2013 conference in Vienna	Three conference papers was presented and published in proceedings from the CESBP-2013 conference for a wide audience.
18	Oct 2013	CIB W78 2013 30th International Conference on Applications of IT-in-AEC Industry, China	Two conference papers was presented and published in proceedings from the CIB W78 2013 conference for a wide audience.
19		Fraunhofer IBP: Building I internal seminar. 21st October, 2013, Nurnberg, Germany.	Seminar where the potential of the BaaS platform were presented.
20	Nov 2013	"Advances in Distributed Computing and Artificial Intelligence" Journal paper publication	Publication in Open Access Journal for a broad range of audience
21	Jan 2014	TH-Nurnberg Department Seminar, January 15th, 2014, Nurnberg, Germany	Discussion with special emphasis placed on BaaS research outputs
22	Feb 2014	Design and simulation Seminar with KICT delegation, Stuttgart, Germany.	Seminar exploring collaboration opportunities with delegation of Korean academics and researchers
23	April 2014	BaaS Newsletter, Issue № 2	Web-page, Mass-Mail for Academics, Sister Projects, Industry, Public Authorities.
24	May 2014	SAUTER Group Meeting, Munich, Germany.	High level internal meeting that included SEO and all executives from European Countries. BaaS

			results presented.
25	June 2014	CIB W78 Conference, Florida 2014, USA	1 Paper published in CIB W78 Conference Proceedings for wide audience
26	July 2014	4th Internal Conference, Energy Campus Nurnberg, July 4th, 2014, Nurnberg, Germany	Scheduled oral presentation for diverse group of energy experts.
27		Intelligent Systems & Agents – ISA Conference, Portugal 2014	1 Paper published in ISA Conference Proceedings for wide audience
28	Sept 2014	ECPPM-2014 Conference, 17-19th September 2014, Vienna	Seven conference papers presented and published in proceedings from the ECPPM-2014 conference for a wide audience.
31		Publication in Journal of Process Control	Publications in Scientific Journals for a broad range of audience e.g. industry representatives, research community etc.
29		Publication in International Journal of Energy for a Clean Environment	
30		Publication in Journal of Building Performance Simulation	
32		Publication in Computer-aided Civil and Infrastructure Engineering Journal	
33	March 2015	BIM-Workshop AK Bauinformatik	Discussion with special emphasis placed on BaaS research outputs
34	M36 Apr 2015	ICEIS 17th International Conference on Enterprise Information Systems Barcelona, Spain	Paper published in the Conference Proceedings for wide audience
35	Apr 2015	PPP Impact Workshop Brussels	High level meeting for wider audience.
36	June 2015	E2BA General Assembly Brussels	High level internal meeting that included BaaS results presentation.
37		European Spatial Agency (ESA) Symposium	Oral presentation about BaaS
37	Sept 2015	Newsletter 3	Web-page, Mass-Mail for Industry and research community contacts.
38	Oct 2015	Journal Computer-aided Civil and Infrastructure Engineering Journal	Wider audience informed with ongoing achievements of the project
39	M42 Oct	CIB W78 Conference	Papers published in the Conferences Proceedings for wide

	2015		audience
40	Oct 2015	EeB PPP Info Project Idea	
41	Dec 2015	Journal Automation in Construction 2015	Publications in Scientific Journal for a broad range of audience e.g. industry representatives, research community etc.
42	Dec 2015	Building Simulation Conference IBPSA, India	Wider Audience
43	Dec 2015	2nd World Forum on Internet of Things, Italy	Wider Audience
44	M 48 April 2016	Final Newsletter	Web-page, Mass-Mail for Academics, Sister Projects, Industry, Public Authorities.
45	Apr 2016	Impact of Energy Efficient Buildings PPP meeting.	Wider audience
46	June 2016	7th ACM International conference on Future Energy Systems, Canada	Papers published in the Conferences Proceedings for wide audience.
47	Sept 2016	11 European Conference on Product Process Modelling ECPPM 2016, Cyprus	
48	Sept 2016	Third IBPSA Building Simulation & Optimization BSO 2016	

Table 1: Dissemination events timeline structure

All significant achievements related to the BaaS project were published in multiple conferences proceedings, journal papers as well as verbal presentations in conferences or workshop where BaaS concepts/results were presented. The timeline offered above in this document is done to highlight that our attempts to communicate with global community worldwide were successful to the best extend possible.

3 Communication Tools

The following section details and illustrates material produced for communication and dissemination activities during and after the BaaS project.

3.1 BaaS Logo

The BaaS logo, illustrated in Figure 1, is used for all BaaS research communication medium.

Figure 1: Different alternatives of the BaaS Logo

In Figure 2 the CMYK and RGB colour codes shown illustrate their use in the project presentations, documents and any other communication material.

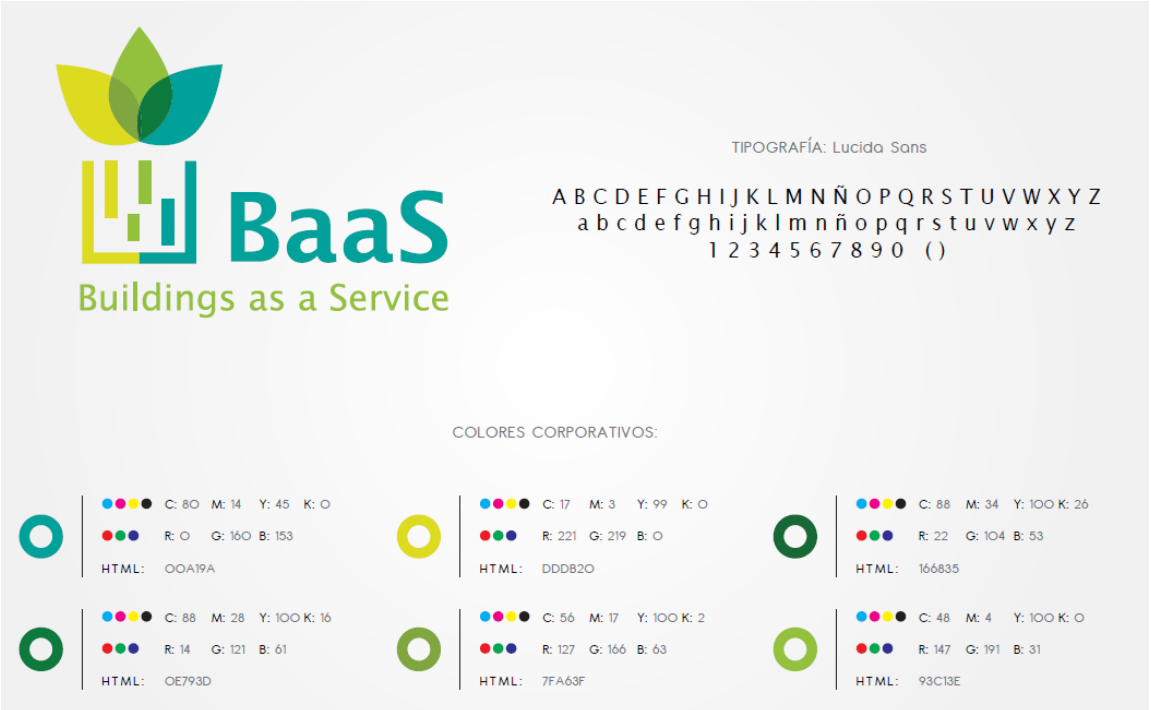
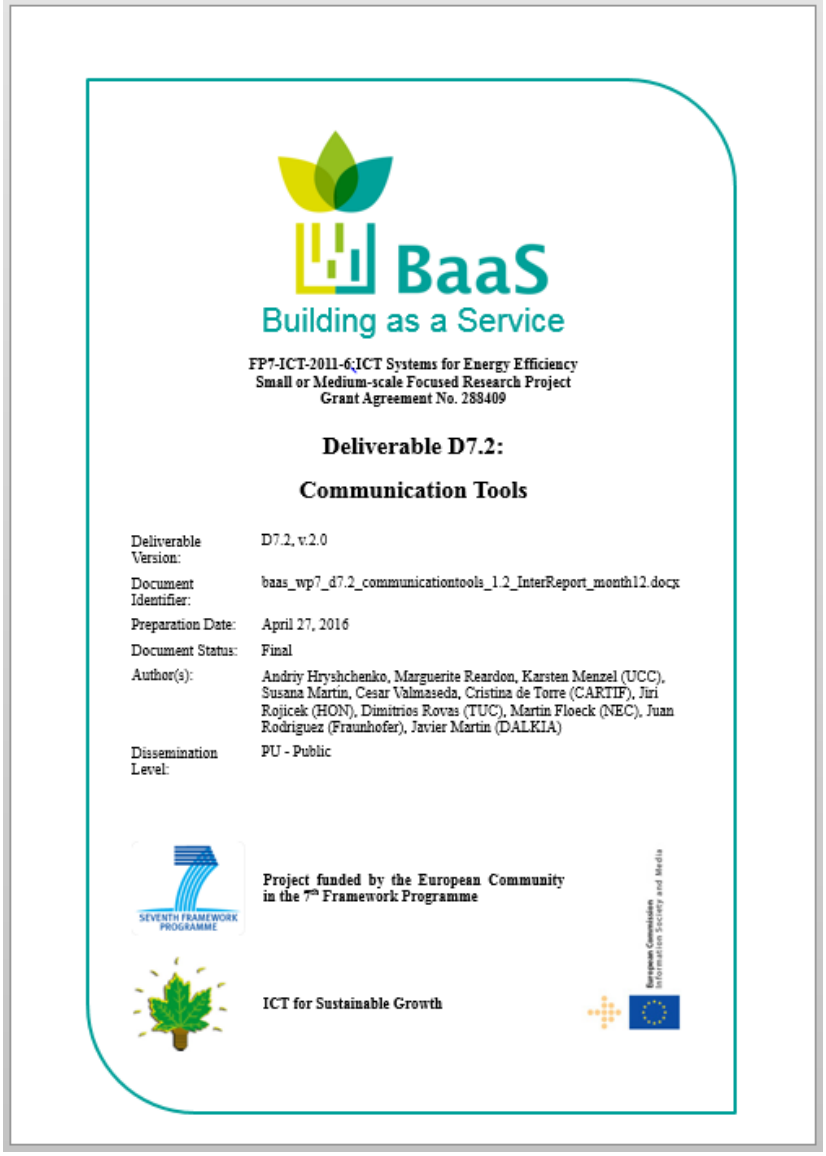


Figure 2: Corporative CMYK and RGB colour codes for the BaaS Logo

3.2 Templates for international and local communication purposes

For the purposed of BaaS Project documentation, different templates have been generated for internal and external communication. Among others, templates for the generation of deliverables and presentations have been expanded upon.

Examples of relevant cover pages of both are showed in Figure 3 and Figure 4.



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Deliverable Version:	D7.2, v.2.0
Document Identifier:	baas_wp7_d7.2_communicationtools_1.2_InterReport_month12.docx
Preparation Date:	April 27, 2016
Document Status:	Final
Author(s):	Andriy Hryshchenko, Marguerite Reardon, Karsten Menzel (UCC), Susana Martin, Cesar Valmaseda, Cristina de Torre (CARTIF), Jiri Rojicek (HON), Dimitrios Rovas (TUC), Martin Floeck (NEC), Juan Rodriguez (Fraunhofer), Javier Martin (DALKIA)
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Figure 3: Cover page of the deliverable template

Figure 4: First slide of the presentation template

3.3 The BaaS project presentation

In order to communicate with widest possible range of related stakeholders, so the main results of the BaaS project will be positively acknowledged, a presentation[1] containing the main characteristics of the project has been generated. This presentation is currently being used in dissemination activities, such as participation in conferences and events organized by the European Commission.

In Appendix A: *Building as a Service identity presentation* is provided.

3.4 Flyer and Brochure

BaaS Partners use the flyer whose presentation is shown below on Figure 5 and Figure 6, also in Appendix A:, detailing what the project involves and what achievements were expected from each work package.

As can be seen in these figures, the flyer has five main sections: background, objectives, demonstration sites, expected impact and target.

This flyer was used for all BaaS research events including targeted conferences as detailed in BaaS deliverable 7.1.

The format of the flyer layout also supports the printing of relevant posters where poster exhibits relevant to BaaS research targeted events are hosted.

The flyer is available directly in the website link for the project (https://www.baas-project.com/index.php/public/commtools).

[1] This presentation is located in the BaaS Website (https://www.baas-project.eu) /Private Access/SharePoint/WP7/General BaaS Project Presentation.

Figure 5: Cover of the BaaS Project Flyer

Figure 6: Inside area of the Baas Project Flyer

There are two iteration of the BaaS brochure has been released, so the third-one is complimenting the end of this project. The brochure itself consists with 3 sections: (i) a project overview, (ii) project partners' definition and (iii) technical work packages description. Only third part is updated in order to highlight the WP's achievements at the end of the project. The goal of this update done by WP7 is to present the all WPs' final approaches and main outcomes. Each single WP/partner may implement minor changes in the future, if necessary for dissemination activities. Thus, this brochure will be displayed by partners in different forms even after the project' closure. It has been created in a format that allows printing in an isolated poster format (A0) per each individual work package or complete in a more classical format (A4) for dissemination and promotion of the whole project.

Both the flyer and the brochure are published in English to reach a wider international audience. A snapshot of this brochure is shown in Figure 7 but it can be seen in the Appendix B: (in order not to overload this document, only latest version of brochure is attached).

Figure 7: Snapshot of the BaaS Brochure

3.5 The BaaS Newsletter

The Baas newsletter is used to update the wider community on the main achievements of the Bass Project. The newsletter provides information about.

- Upcoming events
- The status of the BaaS demonstration sites
- Synopsis of work package achievements
- Useful contacts in BaaS, for example people who can answer specific questions relating to scientific objectives, co-ordination and management and events participation.

Four issues of the newsletter have been published to date, all issues of the BaaS newsletters are located in BaaS Website (cf. 3.6), SharePoint/WP7/Newsletter. Also, these newsletters of the BaaS project have been published in the publicly available Website and LinkedIn. The latest version of the Newsletter is available in Appendix C: of this document.

3.6 Website

The use of online medium to disseminate BaaS achievements will be supported in a number of ways. Primarily, BaaS partners use:

- https://www.baas-project.eu,
- https://www.baas-project.com or
- https://www.baas-project.org

As a "shop-window" for the project where all stakeholders, be it industry or public communities, have access to information concerning the overall aim of the project and the latest news.

The Web page is divided into two parts, the public section where all information pertaining to the project is accessible for the general public, and also a private one. This second part is password protected and it is used by BaaS Partners in order to develop and share their work package documentation, meeting presentations and relevant material.

Figure 8 presents a snapshot of this website.

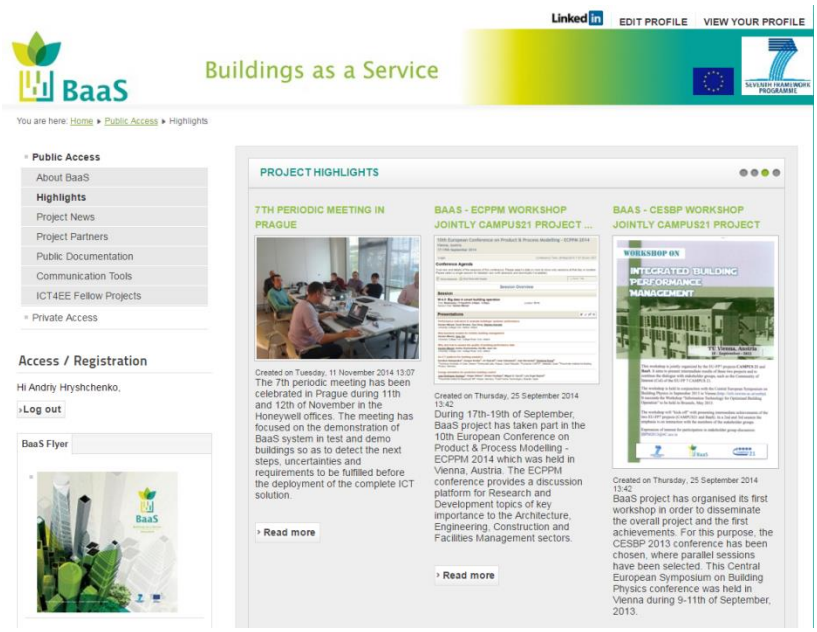


Figure 8: BaaS project Web page snapshot

With regard to with regard to the public information of the Web site, the "home" page provides some details about the project, such as the background and objectives. The "About BaaS" menu contains a sub-menu with a more detailed project description in all the languages of the

participants (English, Spanish, German, Czech and Greek), the project objectives, the description of technical work packages and the demo sites are outlined. A "highlights" page contains a slide with the joint news and a brief description of the BaaS events. "Project news' is the same, but the representation of the information differs from the highlights, as displayed in Figure 9. An in-depth description of each new item is also accessible from the "Read more" button, also through the sub-menu inside the project news. BaaS events shown are the project meetings and those conferences or workshops where the BaaS project has been represented.

Figure 9: Project news snapshot

An important part is the menu of "Communication tools" which shows the community dissemination tools available in the current status. Presently the flyer, the brochure, LinkedIn group and build-up page are shown, but specific links to read and download the Newsletters are also included. It has to be noted that the flyer is always accessible from all the parts of the Web page though the image at the bottom of the main menu. Also, the LinkedIn group is linked at the top of the Web page. To conclude with the public section, the ICT4EE fellow projects are included in the Web page where the projects Pebble, Campus21, Direction, Adapt4ee and Semanco are catalogued.

The private section on the Web site is useful for sharing internal documentation among all the partners and the final deliverables which are not public. The SharePoint snapshot is shown in Figure 10. There is one folder for every work package, but also an additional one for the documentation appointed to the European Commission.

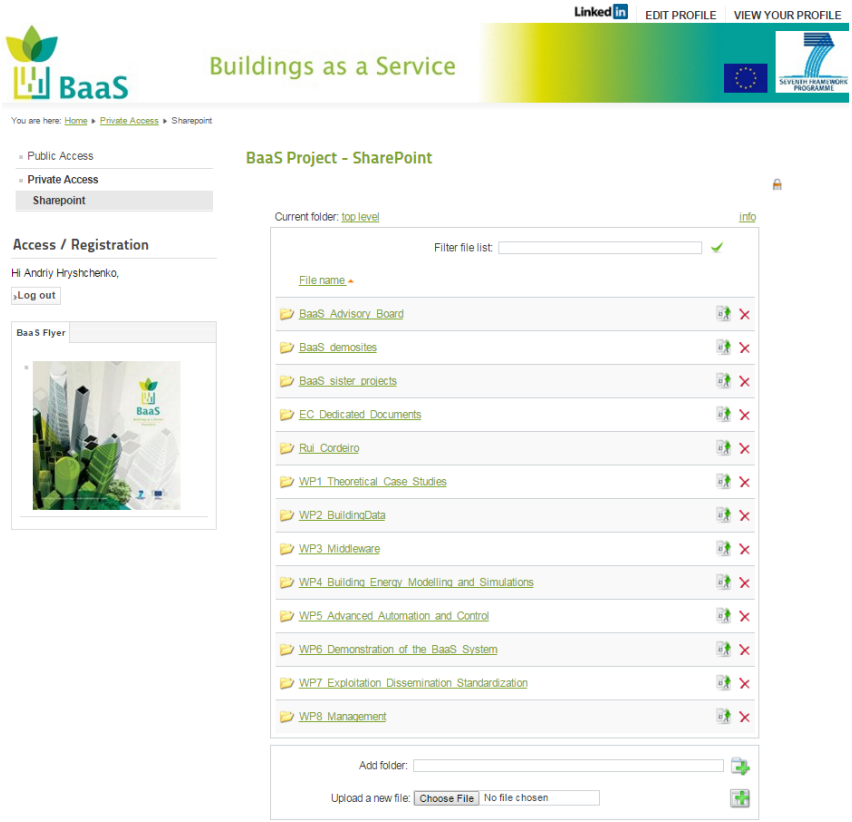


Figure 10: SharePoint snapshot

To access the private section each approved partner used to fill in the form, so the administrator of the Web page can allow permission to the user.

3.7 Commercial communication tools used for dissemination

Commercial dissemination is primarily done by industrial partners in the consortium (NEC, Honeywell) as a part of their internal marketing activities. The main objectives of this dissemination are to promote BaaS results to players in building management market (e.g. facility managers, building owners etc.)

Communication tools used for their internal dissemination are described in D7.1, Chapter 6.

3.8 General Public and Scientific communication

All significant achievements related to the BaaS project were published in multiple conferences proceedings, journal papers as well as verbal presentations during seminars or workshops, where BaaS concepts/results appeared for general auditorium. This is to assure the dissemination of research results, particularly the reporting of the scientifically new techniques and methods used in different work-packages. This information was discussed among communities involved in similar research and development on local and European level in form of peer-reviews and analysis of the related feedbacks received in verbal and written forms, e.g. e-mails. The full list of contacts used for BaaS-related communication is presented in D7.1 Appendix A and Appendix D: of this document.

Journals and peer-reviewed publications are still the most widely used communication channels through which research is disseminated within the scientific community and to a broader audience. To maximise the dissemination of relevant information it is important to utilise social media outlets. However, social media-related dissemination activities (e.g. blogging in LinkedIn, Wiki, Build-Up platform posts) are increasingly challenging the supremacy of editors, reviewers and science communicators. For this reason it is important to mention the use of existing EC Dissemination Channels and Professional Community tools with responsible care and attention to detail.

3.9 Use of existing Professional Community tools

Different professional social networks were analysed. The defined tools that make use of these existing EC dissemination channels are available at month 48 of the BaaS project.

3.9.1 BaaS LinkedIn Community

LinkedIn[2] is the most important social networking website for people in professional occupations. LinkedIn supports the formation of interest groups. The majority of the existing groups are employment related, although there already exists a wide range of topics dealing mainly with professional and career issues, even both academic and corporate alumni. This functionality fully supports the concept of the Community of Interest to be reached by the BaaS project.

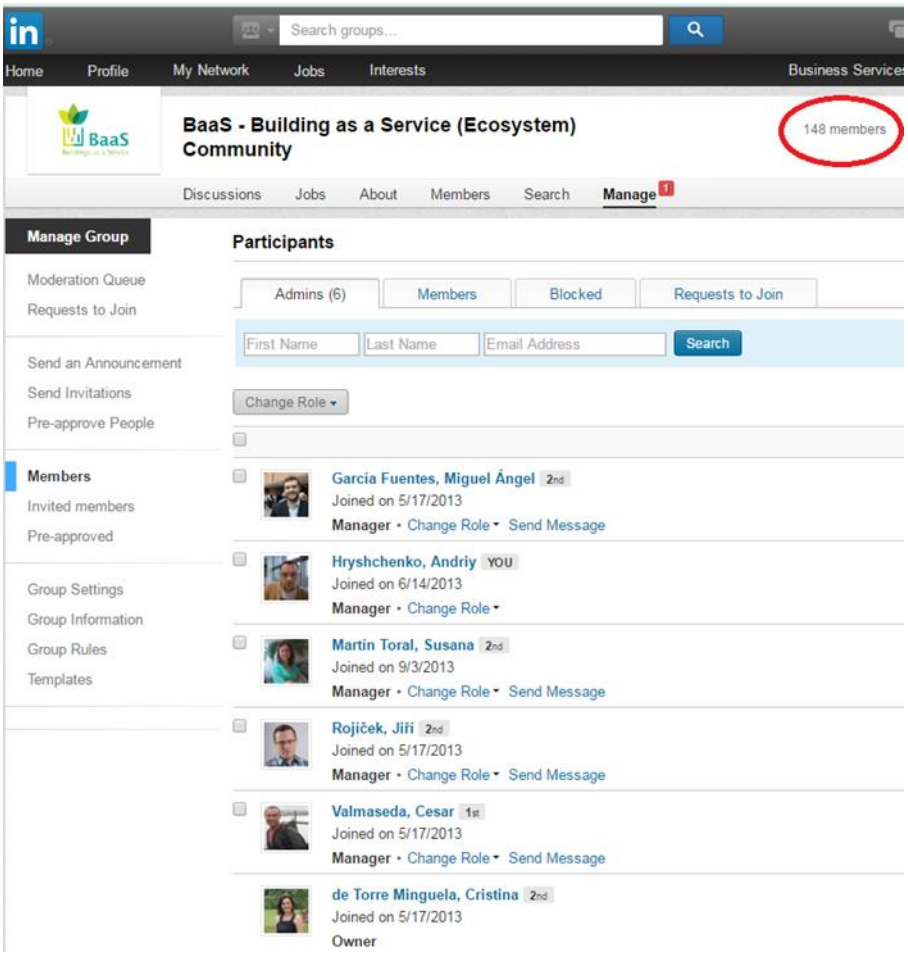


Figure 11: LinkedIn Group's Screenshot

Groups support a limited form of discussion area, moderated by the group owners and managers. Since groups offer the ability to reach a wide audience, LinkedIn Groups (ref. Figure 12 overleaf) have become very popular as an easy tool for dissemination and discussion purposes. Groups can be private, accessible to members only or may be open to Internet users in general to read, though they must join in order to post messages.

[2] *https://www.linkedin.com/groups/BaaS-Building-as-Service-Ecosystem-5017425?home=&gid=5017425&trk=anet_ug_hm*

Due to its nature, LinkedIn allows project partners to make contact with stakeholders and also eases the interaction among them. LinkedIn is an important tool to achieve a wide dissemination of the BaaS activities and achievements on a daily basis.

Thus, apart from the establishment of relationships with those stakeholders, our BaaS LinkedIn Group is intended to be used to promote activities that are also published in the other communication tools.

The name of the BaaS group is "**BaaS – Building as a Service (Ecosystem) Community**", and it is possible to access to it from the website of BaaS Project (https://www.baas-project.com/index.php/public/commtools).

In order to advertise this group, it has been shared in other relevant groups like FP7 Energy or ICT Information and Communication Technologies (ICT), both are subgroups of Horizon 2020. Framework Programme for Research and innovation.

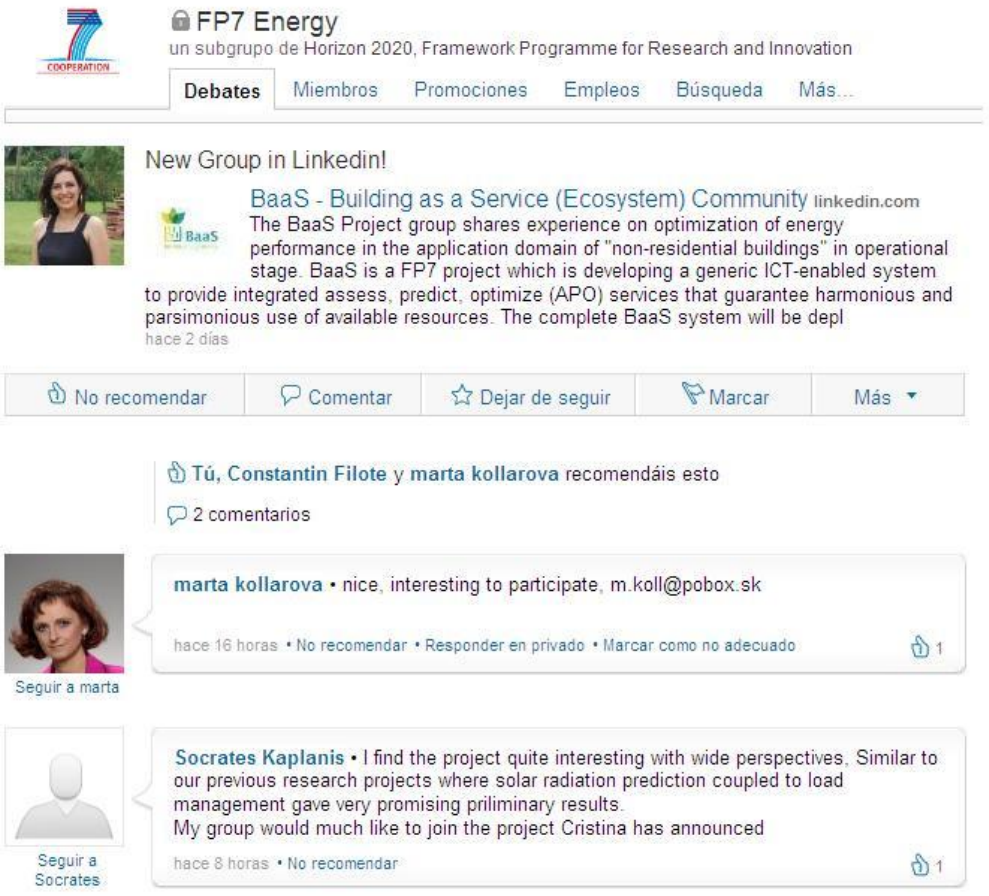


Figure 12: Baas discussion group example

The main target groups to be reached by this professional social networking tool are, highlighted in blue, they are:

- Other FP7 projects
- Activity Sectors: Construction, Energy, ICT
- General Public

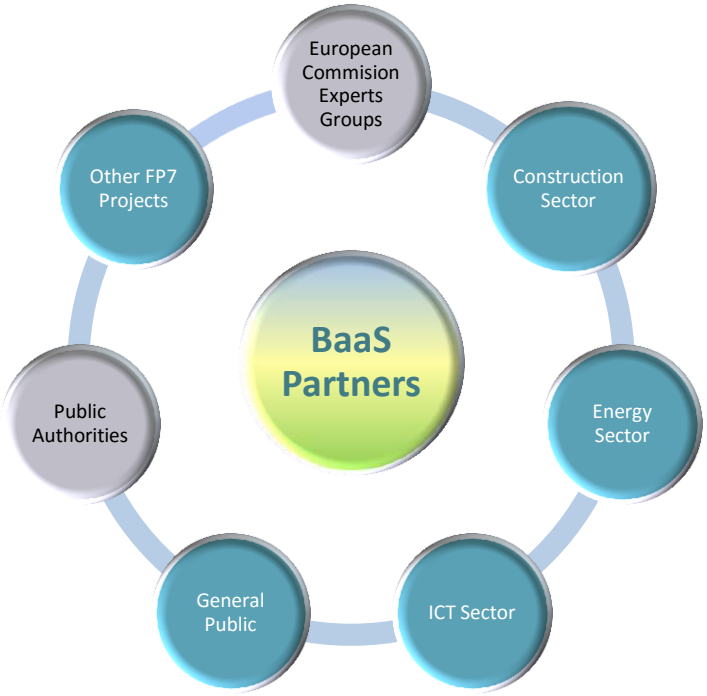


Figure 13: Main target groups of LinkedIn group

3.9.2 Build-Up platform

BUILD UP[3] is a European web portal for energy efficiency in buildings. This initiative was established by the European Commission in 2009 to support EU Member States in implementing the Energy Performance of Buildings Directive (EPBD). This web portal is intended to reap the benefits of Europe's collective intelligence on energy reduction in buildings for all relevant audiences. It will bring together new practitioners and professional associations while motivating them to exchange best working practices and knowledge and to transfer tools and resources.

BaaS project is promoted in Build Up platform[4] as described in details in Deliverable D7.1.

From the section of Communication Tools in the website of BaaS, it possible to directly access this link (https://www.baas-project.com/index.php/public/commtools)

[3] *http://www.buildup.eu/*

[4] *http://www.buildup.eu/links/36463*

4 Conclusions

To handle and disseminate the information effectively, an efficient way of communication and information management is developed. The success of communication-related task is very much dependent not only on overcoming professional barriers between the BaaS participants and the group of interest, but also on sharing information with general public. The diffusion of knowledge will lead to well informed and committed wide-ranging stakeholders and to the improvement of energy efficient solutions and practices in general.

For this an Internet will play its increasingly important role. For example, the main intention of the LinkedIn and Build UP platforms use is to focus our dissemination on this virtual flexible learning and teaching environment, using effectively integrated infrastructure to announce the BaaS events and other related information. This supposed to be a powerful technology transfer mechanism of knowledge and experience, with learning and working process tools through these web-based platforms.

It is also important that our dissemination activities are enabling better BaaS-related knowledge distribution, understanding and spreading on “energy efficiency” commercial field. The challenge is to create a work environment that allows participants to learn, adapt, share and respond on the “energy efficiency” market demand, to motivate the integration of smart solution applied to buildings’ energy systems design and simulation, effective usage and maintenance.

References

[1] http://ecppm.rabygg.is/, last accessed 18 October 2012.
[2] http://icebo2012.com/, last accessed 19 October 2012.
[3] http://www.ichmt.org/sebua-12/, last accessed 18 October 2012.
[4] http://www.escape23.fi/, last accessed 30 October 2012.
[5] http://www.clima2013.org/en/welcome-address, last accessed 30 October 2012.
[6] http://www.ifac2014.org/, last accessed 30 October 2012.
[7] http://www.ieea.org/, last accessed 30 October 2012.
[8] http://www.env-energy.org/index.html, last accessed 30 October 2012.
[9] https://circabc.europa.eu/faces/jsp/extension/wai/navigation/container.jsp, last accessed 30 October 2012.

Appendix A: Building as a Service identity presentation

Figure 14: Identity presentation, page 1

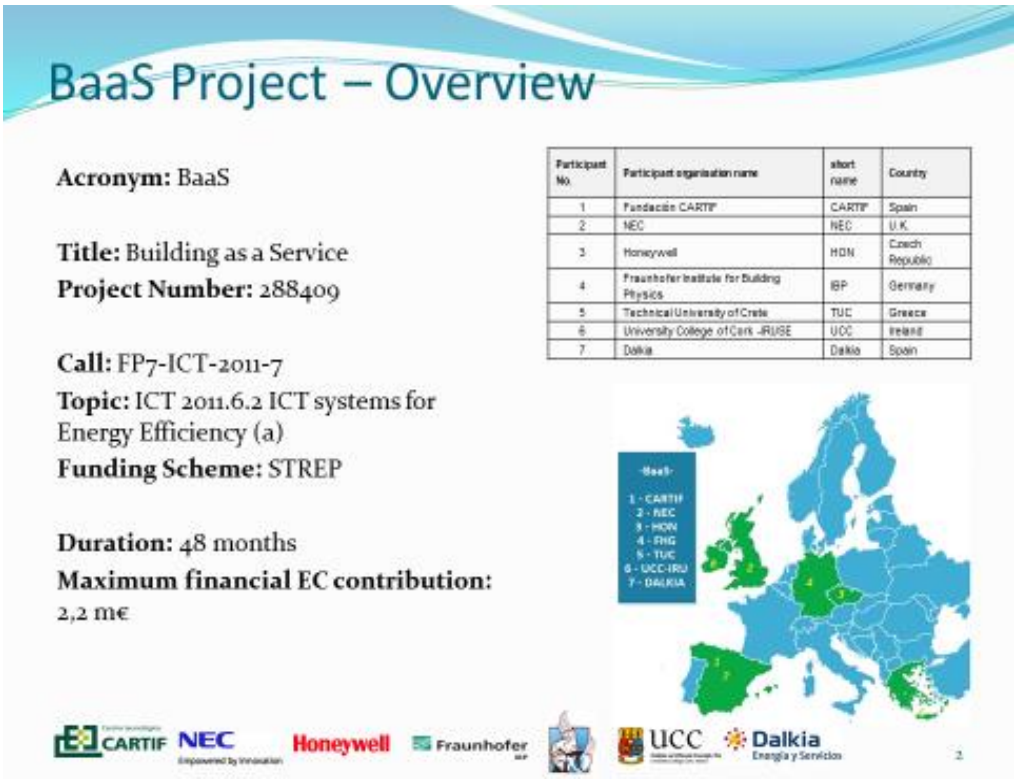


Figure 15: Identity presentation, page 2

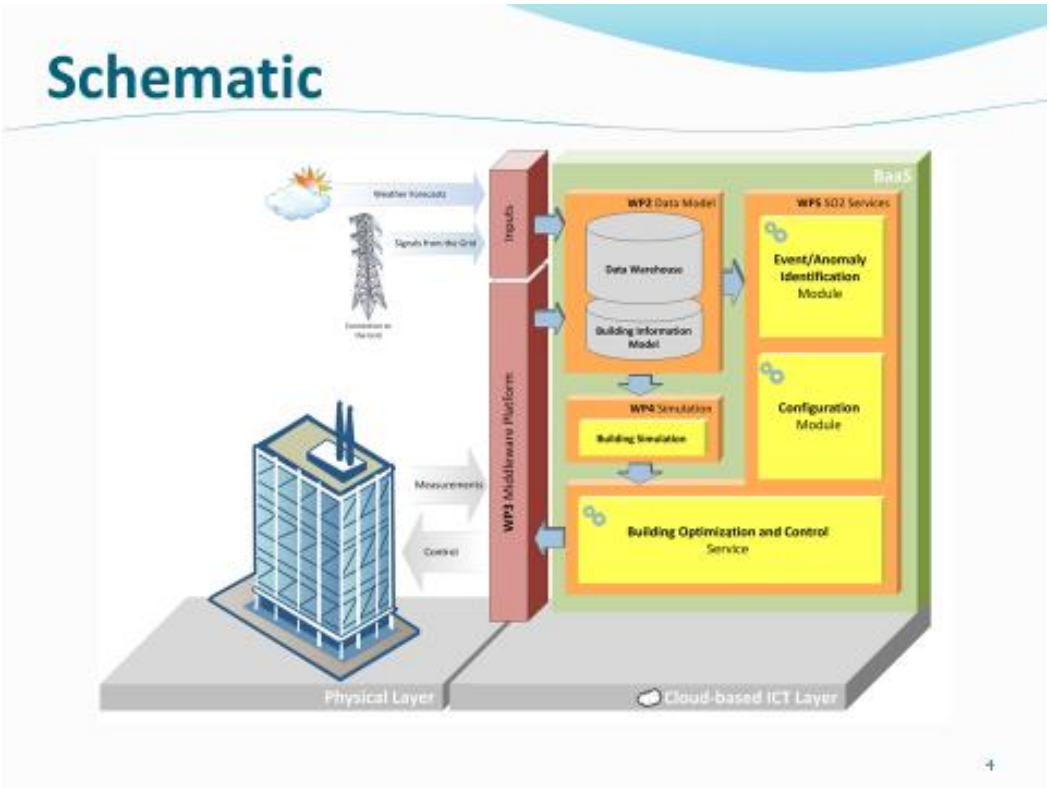


Figure 16: Identity presentation, page 3

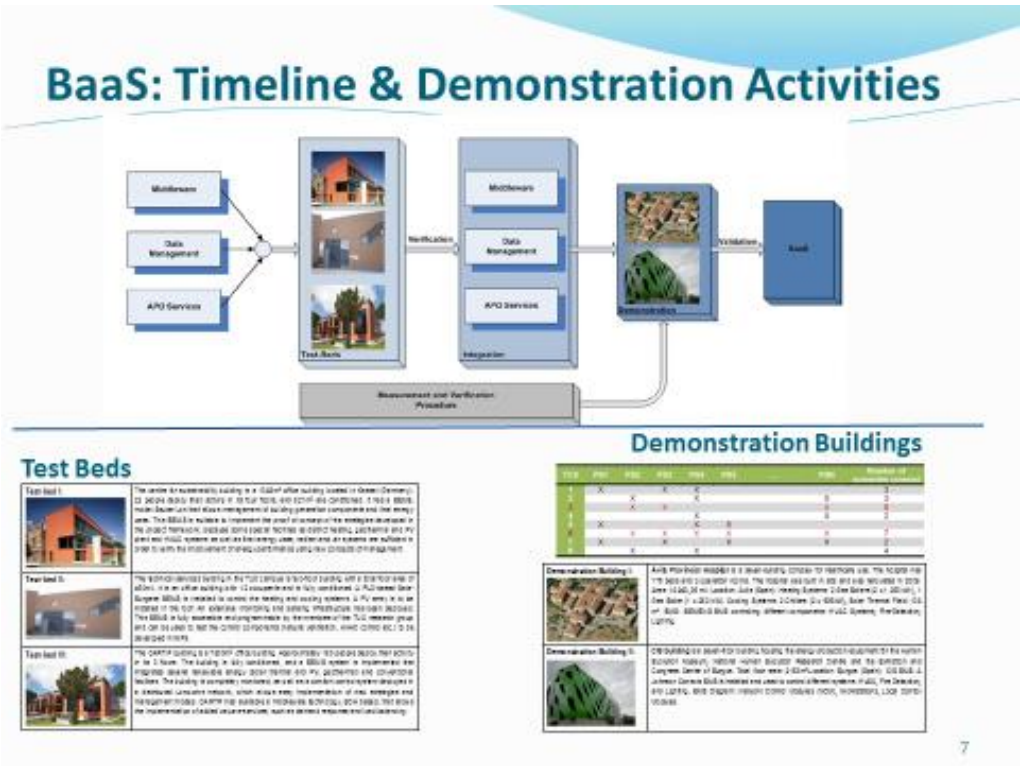


Figure 17: Identity presentation, page 4

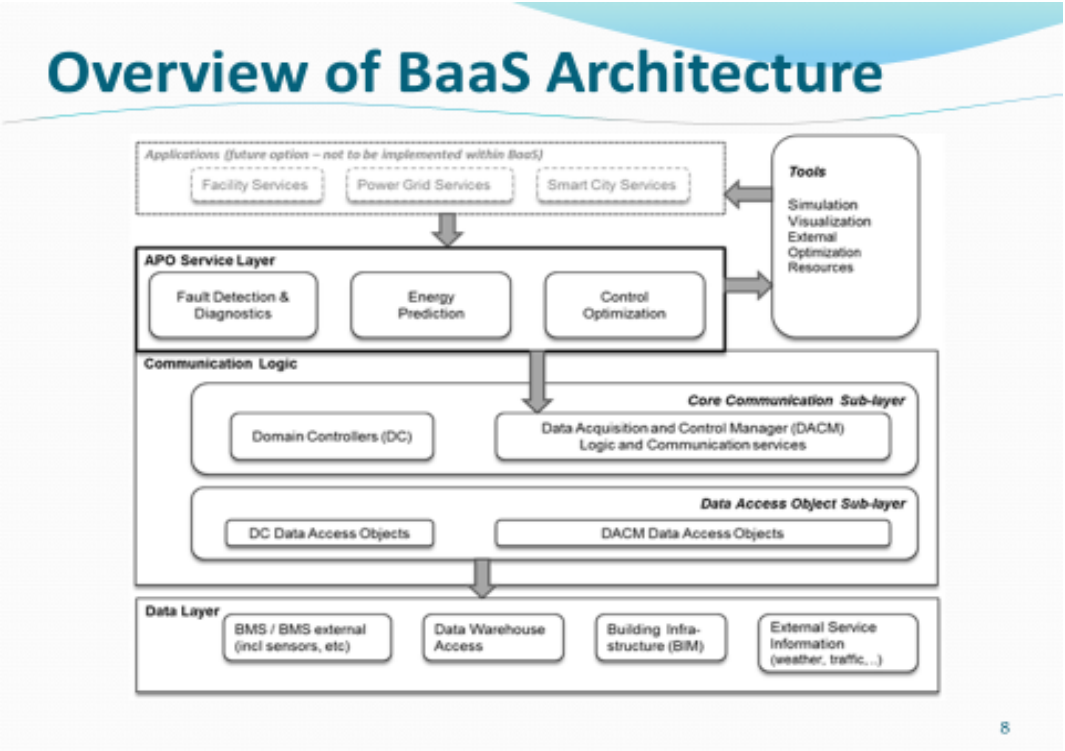


Figure 18: Identity presentation, page 8

Figure 19: Cover of the BaaS flyer

Figure 20: Back cover of the BaaS flyer

Figure 21: Sections 1 and 2 of the BaaS flyer

Figure 22: Section 3 of the BaaS flyer

Figure 23: Sections 4 and 5 of the BaaS flyer

Figure 24: BaaS flyer cover page

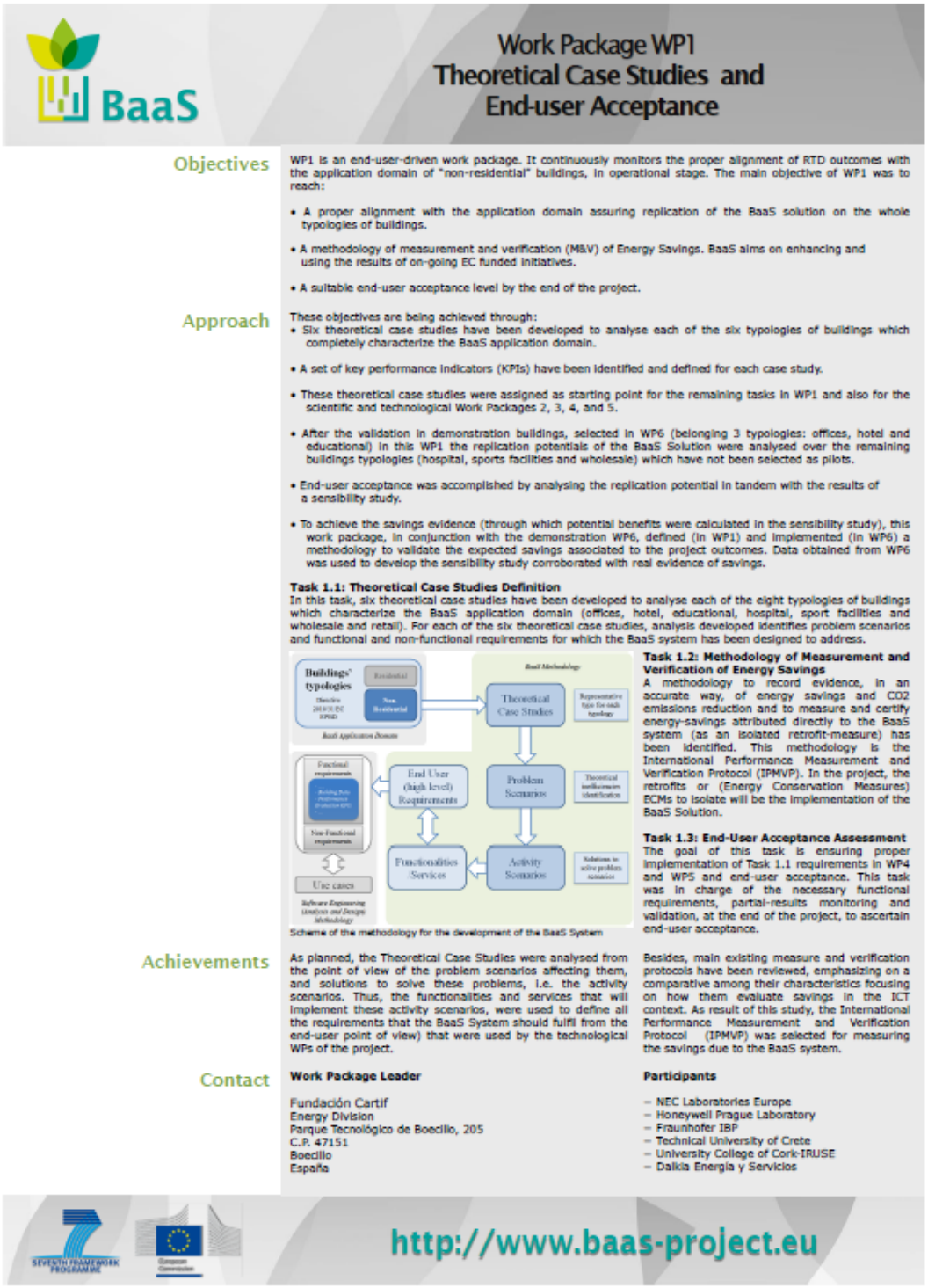
Figure 25: Inside area of the BaaS flyer

Appendix B: BaaS brochure, final version 3

Figure 26: Brochure BaaS Cover page. Third version.

Figure 27: Brochure BaaS Project Overview. Second version

Figure 28: Brochure BaaS Project Partners Detail. Third version.



BaaS

Work Package WP1
Theoretical Case Studies and End-user Acceptance

Objectives

WP1 is an end-user-driven work package. It continuously monitors the proper alignment of RTD outcomes with the application domain of "non-residential" buildings, in operational stage. The main objective of WP1 was to reach:

- A proper alignment with the application domain assuring replication of the BaaS solution on the whole typologies of buildings.
- A methodology of measurement and verification (M&V) of Energy Savings. BaaS aims on enhancing and using the results of on-going EC funded initiatives.
- A suitable end-user acceptance level by the end of the project.

Approach

These objectives are being achieved through:

- Six theoretical case studies have been developed to analyse each of the six typologies of buildings which completely characterize the BaaS application domain.
- A set of key performance indicators (KPIs) have been identified and defined for each case study.
- These theoretical case studies were assigned as starting point for the remaining tasks in WP1 and also for the scientific and technological Work Packages 2, 3, 4, and 5.
- After the validation in demonstration buildings, selected in WP6 (belonging 3 typologies: offices, hotel and educational) in this WP1 the replication potentials of the BaaS Solution were analysed over the remaining buildings typologies (hospital, sports facilities and wholesale) which have not been selected as pilots.
- End-user acceptance was accomplished by analysing the replication potential in tandem with the results of a sensibility study.
- To achieve the savings evidence (through which potential benefits were calculated in the sensibility study), this work package, in conjunction with the demonstration WP6, defined (in WP1) and implemented (in WP6) a methodology to validate the expected savings associated to the project outcomes. Data obtained from WP6 was used to develop the sensibility study corroborated with real evidence of savings.

Task 1.1: Theoretical Case Studies Definition
In this task, six theoretical case studies have been developed to analyse each of the eight typologies of buildings which characterize the BaaS application domain (offices, hotel, educational, hospital, sport facilities and wholesale and retail). For each of the six theoretical case studies, analysis developed identifies problem scenarios and functional and non-functional requirements for which the BaaS system has been designed to address.

Scheme of the methodology for the development of the BaaS System

Task 1.2: Methodology of Measurement and Verification of Energy Savings
A methodology to record evidence, in an accurate way, of energy savings and CO2 emissions reduction and to measure and certify energy-savings attributed directly to the BaaS system (as an isolated retrofit-measure) has been identified. This methodology is the International Performance Measurement and Verification Protocol (IPMVP). In the project, the retrofits or (Energy Conservation Measures) ECMs to isolate will be the implementation of the BaaS Solution.

Task 1.3: End-User Acceptance Assessment
The goal of this task is ensuring proper implementation of Task 1.1 requirements in WP4 and WP5 and end-user acceptance. This task was in charge of the necessary functional requirements, partial-results monitoring and validation, at the end of the project, to ascertain end-user acceptance.

Achievements

As planned, the Theoretical Case Studies were analysed from the point of view of the problem scenarios affecting them, and solutions to solve these problems, i.e. the activity scenarios. Thus, the functionalities and services that will implement these activity scenarios, were used to define all the requirements that the BaaS System should fulfil from the end-user point of view) that were used by the technological WPs of the project.

Besides, main existing measure and verification protocols have been reviewed, emphasizing on a comparative among their characteristics focusing on how them evaluate savings in the ICT context. As result of this study, the International Performance Measurement and Verification Protocol (IPMVP) was selected for measuring the savings due to the BaaS system.

Contact

Work Package Leader

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Participants

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- Honeywell Prague Laboratory
- Fraunhofer IBP
- Technical University of Crete
- University College of Cork-IRUSE
- Dalkia Energia y Servicios

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Figure 29: Brochure Work Package 1. Third version.

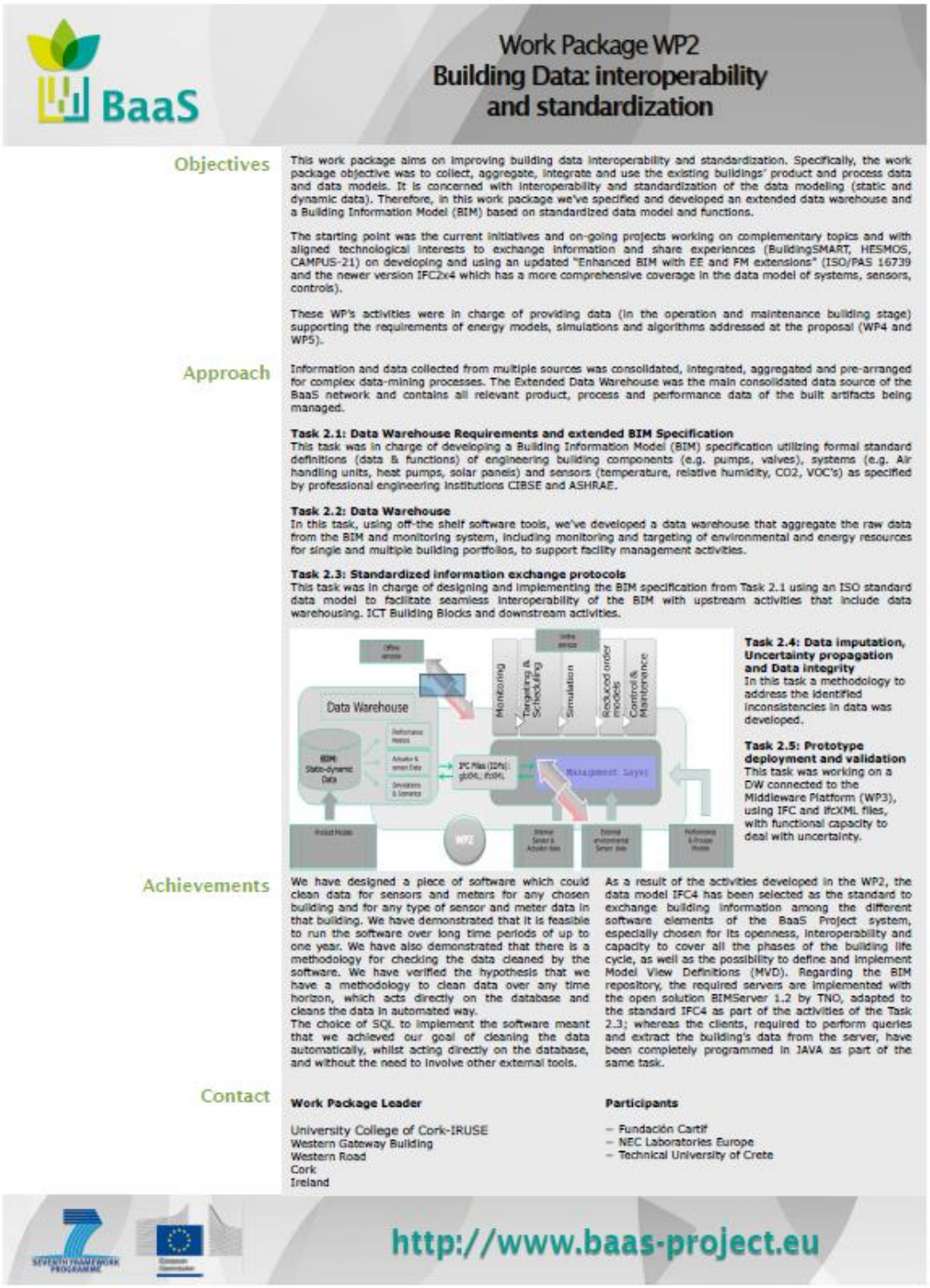


Figure 30: Brochure Work Package 2. Third version.

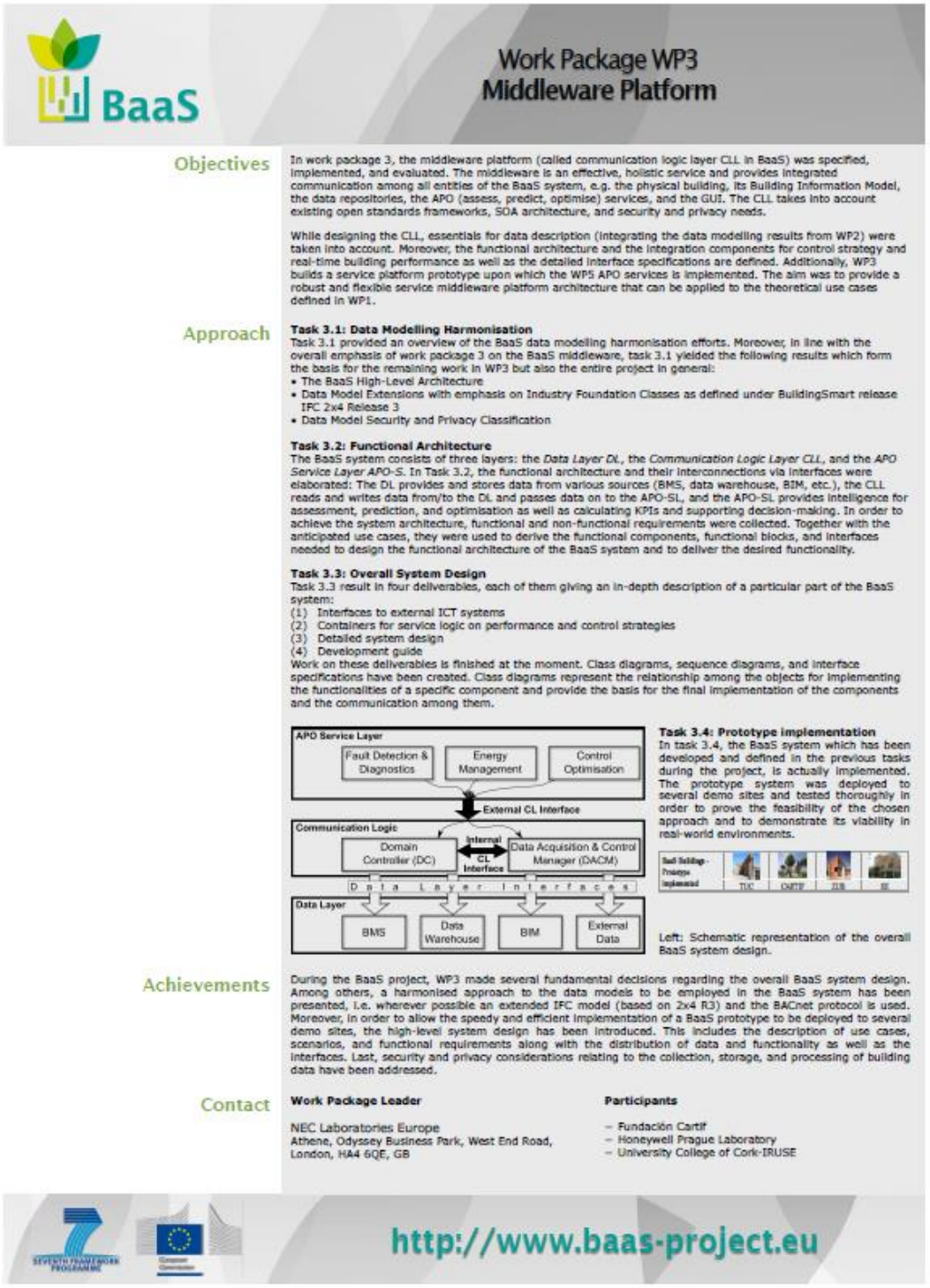


Figure 31: Brochure Work Package 3. Third version.

BaaS

Work Package WP4
Building Energy Modelling and Simulations for Performance Estimation and Control

Objectives

The objectives of WP4 were to provide building modeling and simulation tools for energy performance (EP) estimation and control design integrating needed-simulation capabilities into the BaaS system.
In particular within WP4 the objectives are:

- to develop thermal simulation models capable of estimating performance (using both models and sensor measurements) so that it can be comprehensibly compared with actual measured performance;
- to create a simulation platform for testing and evaluating the control strategies developed in WP5 (advanced automation and control services for performance optimization of building operation);
- to develop simulation platforms for anomaly identification;
- to create simulation models amenable to control design;
- to integrate the simulation component in the BaaS framework.

Approach

Task 4.1: Simulation for energy estimation, interconnection to the BaaS system
For energy performance estimation zonal-type software is selected to perform the simulations.
There are several appropriate components developed to:

- Interface with the BIM and extract information about installed infrastructure in a building.
- Interface to the data warehouse to obtain dynamic data.
- Interface with external systems (e.g. weather service to obtain weather data).
- Interconnect the various components to permit the use of dynamic data.
- Experimental testing and verification of interoperability in the development test-bed (buildings).

Task 4.2: Simulation models for the pilot buildings
This task activity was diverted on creating a simulation models of varying complexity and accuracy ("just enough accurate") for the BaaS pilot buildings.
Subtask 4.2.1: Develop the thermal simulation models, for energy performance estimation.

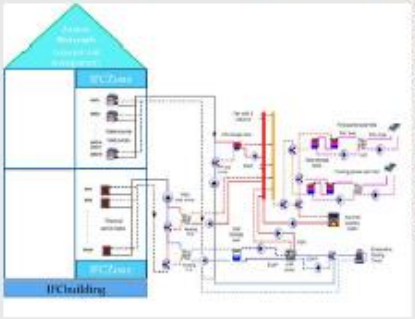
- Develop the simulation models for the zonal-type software selected in Task 4.1.
- Validate models under standard building operation.
- Verify that the components developed in T4.1 are of sufficient generality to interface with BIM & DW
- Evaluate KPIs defined in WP1. Suggest additional KPIs if deemed necessary.

Subtask 4.2.2: Model-reduction for control and monitoring

- Specify the computational complexity and accuracy requirements for each of the operations that the models will support (control design, monitoring and anomaly detection, etc.)
- Select a hierarchy of modeling and simulation approaches that could serve the requirements imposed
- Identify the structured model for pilots from available data, contextual information and EP models
- Verify against measurement data and compute deviations in KPI value predictions.

Task 4.3: Evaluation of control strategies on the pilot buildings

- To use EP models to assess control strategies developed in WP5 and compute relevant KPIs
- To evaluate the performance improvement and select KPIs to be optimized
- To test WP4 and WP5 algorithm integration before installing into real building, minimizing deployment impact. BaaS will be applied firstly in non critical zones increasing the complexity until a complete implementation.
- To compute energy performance and energy-efficiency comparing the control with the "no-control" strategies.



The schematic on the left represents the interconnection between the systems installed inside buildings to generate, distribute and deliver energy into the conditioned zones with building and its occupants. Utilization of the IFC types included into BIM's in combination with the online measurements obtained from the buildings permits the creation of simulation environments that accurately reproduce the real environments.

The simulation structures created are used by the APO's to evaluate different cases as Fault detection or to estimate the behavior of the set Building/equipment operated under new evolved control strategies development in WP5.

Achievements

During the BaaS project, WP4 developed the interfaces connected to the BIM servers, through the WP5, responsible of extracting the information needed to create the simulation environments. Furthermore, this information was used by other BaaS components to evaluate KPI's, control strategies, abnormal strategies of the building equipment.
It was defined the data characteristics that should present the components described with the IFC files for simulation purposes as well as the external values needed as can be the connection with weather station, weather forecasts, scheduled facts no present in the building definition and collecting of occupants votes in matters as climate and illumination comfort.

Contact

Work Package Leader

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Participants

-Honeywell Research Labs
-Fundación Cartif
-Technical University of Crete

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Figure 32: Brochure Work Package 4. Third version.

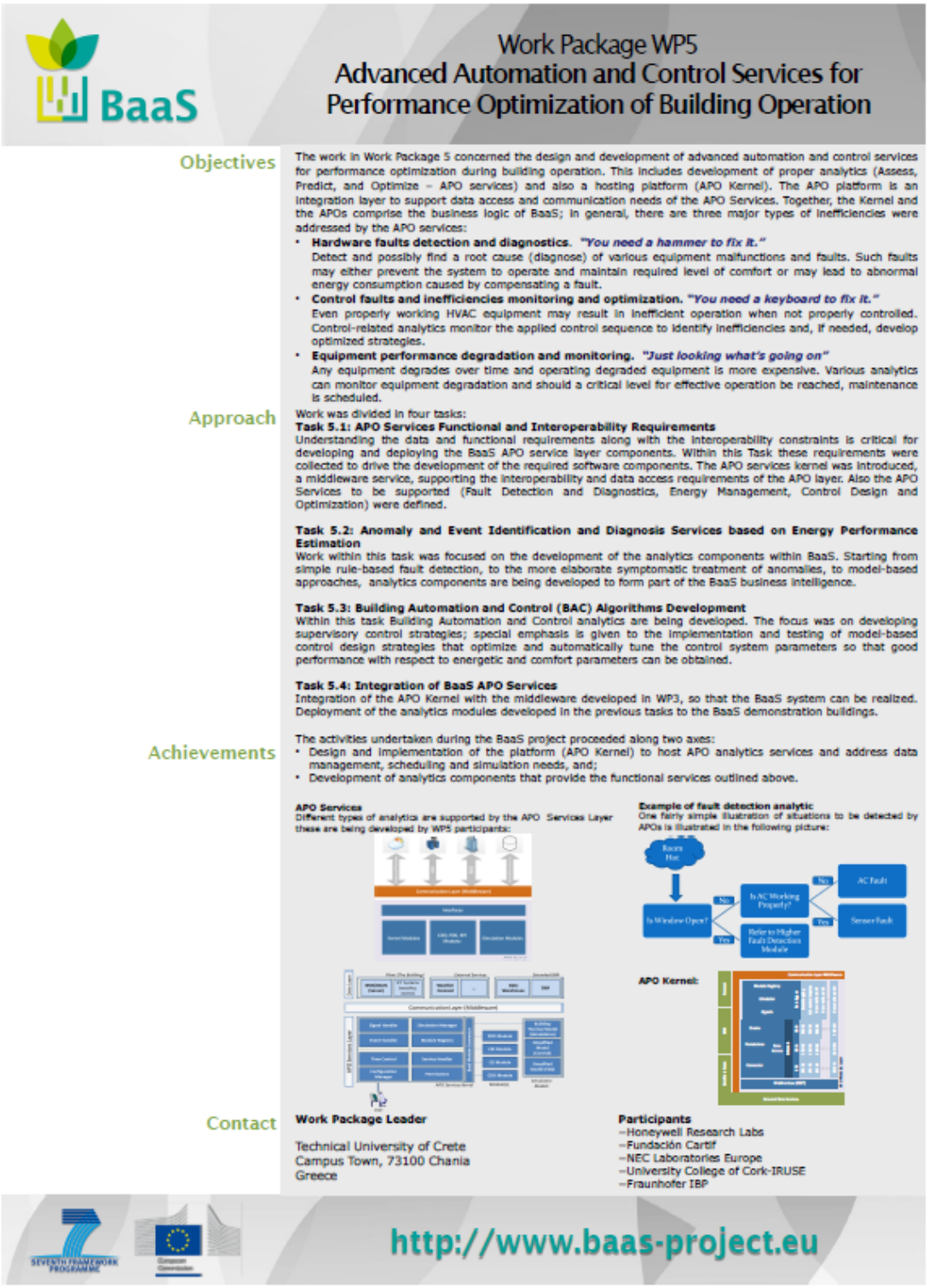

Figure 33: Brochure Work Package 5. Third version.

Figure 34: Brochure Work Package 6. Third version.

Appendix C: BaaS Project Newsletter, final Issue №4

BaaS

Buildings as a Service
Project Newsletter №4

April 2016

The 3rd Review Meeting was held in the EC premises the 4th of November 2015, the main objective was to present the achievements obtained for the third Project Period of BaaS (from December 2014 to August 2015).
Particularly presentations were focused on showing the achievements obtained per WP and the current situation of BaaS deployed in our three demonstration buildings: ZUB – Kassel (Germany), CARTIF – Valladolid (Spain), and Sierra Elvira School – Granada (Spain). In that sense, the consortium showed that BaaS is ready and delivering energy-aware monitoring and optimized operation services towards the real validation of the prototype in different scenarios (Use Cases) that affects the buildings' behaviour in summer and winter modes. Preliminary results related to the summer Use Cases were also presented

Upcoming events

The final project review will take place in Brussels June 9th 2016.

César Valmaseda, BaaS Project Coordinator

Welcome to the 4th and final issue of the BaaS project newsletter on the research of ICT solutions for optimizing energy performance in the application domain of "non-residential buildings" in an operational stage. This final stage of the project has been remarked by the deployment of the winter mode in our three demonstration sites: two office buildings located in Kassel (Germany) and Valladolid (Spain) and one school placed in Granada (Spain). Additionally, the assessment of the results has been carried out both in summer and winter cases in order to provide specific numbers which help industrial and academic partners to identify potential exploitation initiatives.

Having in mind the objectives of energy efficiency and comfort improvements, the complete BaaS platform has been running during the experiments by gathering heterogeneous data from the buildings with the aim at supporting the model-based and data-driven decision-making services. These high-level services have provided better comfort conditions to the occupants, as well as energy savings for the owner. Finally, its replicability and sensibility analyses have been performed by which the replication potential and impact augur future developments under BaaS umbrella.

Finally, I would like to invite you to continue following BaaS project and its achievements by visiting our communication channels: BaaS project website and BaaS LinkedIn Group.

Centre for Sustainable Building (Kassel)

CARTIF office building (Valladolid)

Sierra Elvira school (Granada)

Experiments and BaaS implementation results:

CARTIF Demonstration Site

During the last stage of the BaaS project, the winter mode has been deployed in the CARTIF building which is model-based controller that treats the optimal control of the energy generation and distribution sources for heating. In particular, the inlet temperature water into the radiant floor has been the objective. Thanks to this new control, which overrides the old control strategies, in the CARTIF building 10% of energy savings have been achieved, while the comfort in the zones is ensured.

Additionally, the assessment of the summer mode has been obtained where 24% energy savings are got by means of controlling the set-points offset of the cooling systems.

ZUB Demonstration Site

Two different experiments where implemented during the winter period 2015-2016 in ZUB building.

Period 1 (P1): New control was applied from Dec15 to Jan16 and it alters the previous baseline control strategy, modifying heating sending temperatures as a function of the forecasted ambient temperatures and solar radiation for the next 72 hours.

Period 2 (P2): It was applied from Feb16 to Mar16 when the building is preheated on Sunday afternoon and It is let "free floating" along the week. Some additional heating is provided if necessary until Friday morning, but the building is kept comfortable mostly with the available radiation and the internal loads.
Both measurements lead to combined savings of 17% (13% in P1 and 30% in P2).

Sierra Elvira School Demonstration Site

During the winter season 2015-2016, two different control strategies were implemented in SES building. For the first one, predictive models have been developed in order to implement control and optimization strategies that minimize the energy consumption while meeting the comfort requirements related to the indoor temperature. The second solution consisted on a holistic optimization of HVAC systems via distributed data-driven control and it is based on the principles of reinforcement learning. The overall energy savings achieved in SES are estimated on 18%, while the indoor temperatures reached very acceptable levels (19-20ºC) compared to the reference ones.

Figure 35: Baas Project Newsletter, Issue 4, page 1

BaaS

Publications

The Bass project has presented in the following conferences this year

Further Information:

For most recent events, conferences, papers, you can find updated information on BaaS website:
https://www.baas-project.eu

Results summary

Pilot Building	Use Case	Energy consumed	Energy savings	
CAR	Uc1 (Winter)	2,908 kWh$_h$	284 kWh$_h$	10%
	Uc2 (Summer)	1,962 kWh$_e$	756 kWh$_e$	24%
ZUB	Uc1 (Winter)	12,462 kWh$_h$	2,566 kWh$_h$	17%
BEB	Uc1 (Winter)	31,360 kWh$_h$	6,843 kWh$_h$	18%

BaaS useful contacts

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Leader of BaaS WP8
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Follow us

Visit the BaaS website for more details:
www.baas-project.eu

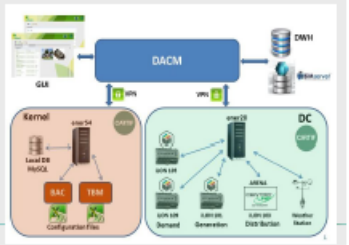
Follow updates and news and benefit from the exchanges among wide-ranging players in the energy efficient community by joining "**BaaS – Building as a Service (Ecosystem) community**" on LinkedIn.

If you would like to become a member of the BaaS Dissemination Network, please contact us at
baas_dissemination@cartif.es

Final Results and Future works

As it has been remarked before, a set of summer and winter use cases have been applied along the BaaS project lifecycle with unneglectable results. Having in mind them, the building owners will continue the application of the BaaS project during the next summer and winter seasons. In this way, BaaS has been completed through an holistic, interoperable and scalable platform to apply optimal control strategies so as to save energy at the same time than applying comfort constraints.

Under this concept, BaaS will not only continue its application in the pilot buildings, but also, its heterogeneity provides the possibility of replicating the solution, as ECM (Energy Conservation Measure) represented in the picture, in other contexts. Thus, ESCos, such as Veolia may integrate the solution within its business models and exploitation plans. In low-performance buildings which require a significant energy retrofitting, the potential of the BaaS solution is very high in terms of energy efficiency and economic savings, justifying the projects feasibility.



As well, the individual pieces of software are subject of exploitation by other industrial partners.

BaaS has also largely contributed to dissemination activities. In summary, several papers have been published in peer-review journals. Regarding conferences, BaaS partners have carried out a wide activity, reaching more than 20 published papers in proceedings. Finally, BaaS project has organized two workshops where engineers, architects and end-user have participated.

Finally, during the last stage of the project, a set of final deliverables have been submitted, shown in the table below. The public documents are available on the Web site of the project.

No	Title	No	Title
D1.3	End-user acceptance assessment	D6.4	Deployment of BaaS ECM in pilot buildings
D2.5	Prototype deployment, evaluation, monitoring and support	D7.1	Dissemination Plan
D3.8	Prototype documentation deployment, evaluation, monitoring and support	D7.2	Communication Tools
D4.4	Evaluation of WP5 results under different KPIs	D7.3	Project Website
D5.4	Deployment, evaluation, monitoring and support of SO2 Integrated Services	D7.4	Plan for the Use and Dissemination of the Foreground ((PUDF)
D6.3.3	Reporting Period in Pilot buildings	D7.5	Standardisation

BaaS useful contacts:

- In respect to BaaS Project coordination and management you can contact the BaaS Project coordinator Susana from Fundación Cartif, Energy Division; email cesval@cartif.es or baas@cartif.es.
- In respect to BaaS events participation and related dissemination you can contact the BaaS Workshop Coordinator Professor Karsten Menzel from University College Cork, Ireland; email k.Menzel@ucc.ie
- If you have a question related to scientific objectives please contact WP leader
- WP1 Cartif josher@cartif.es
- WP2 UCC k.menzel@ucc.ie
- WP3 NEC Mischa.Schmidt@neclab.eu
- WP4 Fraunhofer juan.rodriguez.Santiago@ibp.fraunhofer.de
- WP5 TUC rovas@dpem.tuc.gr
- WP6 Veolia javier.martin@Veolia.com
- WP7 Honeywell jiri.rojicek@honeywell.com

Figure 36: Baas Project Newsletter, Issue 4, page 2

Appendix D: Full list of contacts used for BaaS dissemination

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Abdul Samad Kazi	VTT (Technical Research Centre of Finland)	Finland
Ad Van 'T Zelfde	Bam Infraconsult	Netherlands
Adrain Downey	UCC	Ireland
Adrian Plüss	FH Aargau/Nordwest Switzerland	Switzerland
Adriana Bernardi	National Research Council Of Italy	Italy
Afzal Siddiqui	Stockholm University	Sweden
Agnieszka Kowalska	Asm - Market R&A Centre Ltd.	Poland
Agnieszka Lukaszewska	Przedsiebiorstwo Robot Elewacyjnych Fasada	Poland
Ahmed Ammar	CCC Information Services Inc.	USA
Aidan Duffy	Dublin Institute of Technology	Ireland
Aidan Melia	Integrated Environmental Solutions Ltd.	Ireland
Aidan O'Donovan	Georgia Building Analysis	Ireland
Aine Foley	University College Cork	Ireland
Alain Zarli	CSTB	France
Ala-Juusela Mia	VTT	Finland
Alan Hore	DIT / CITA	UK
Alan Jacobs	Bentley Systems Incorporated	USA
Alan Lamont	Bentley Systems Germany GmbH	Germany
Alan Luke	Nottingham University	UK
Albert Daly	National Roads Authority	Ireland
Alena Kohoutkova	Czech Technical University In Prague	Czech Rep.
Ales Magdic	University of Maribor	Slovenia
Alessandro Romanello	ERMCO	Belgium
Alexander Gehre	TU Dresden	Germany
Alexis Onofriou	CNE TECHNOLOGY LTD	Cyprus
Alf Thiele	Kesys AG	Germany
Alfio Galata	Aess Modena	Italy
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Ali. A. Nazari Shirehjini	Fraunhofer	Germany
Alison E. Gotkin	United Technologies Research Centre	Ireland
Alistair Borthwick	Edinburgh University	UK
Allan Dressling	Aalborg University	Denmark
Alan Holland	University College Cork	Ireland
Ana Pereira Roders	Eindhoven University Of Technology	Netherlands
Ana Ribeiro	Centitvc	Portugal
Anders Hagström	ETH Zürich	Switzerland
Andraz Legat	ZAG	Slovenia
Andre Borrman	Technische Universitat Munchen	Germany

Andrea Bifulco	CE Consult	Italy
Andrea Ricci	Istituto Di Studi Per Integrazione Dei Sistemi	Italy
Andreas Broecker	Fraunhofer	Germany
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Andreas Jüngst	TÜV Energie & Umwelt GmbH	Germany
Andreas Kaibel	Fraunhofer	Germany
Andreas Kohlhaas	Graphisoft Germany	Germany
Andreas Laabs	WeltWeitBau GmbH	Germany
Andreas Meißner	Fraunhofer	Germany
Andreas Pesch	Bilfinger Berger AG	Germany
Andreas Rogge	BAM	Germany
Andreas Salzer	Wolff & Muller	Germany
Andreas Timm-Giel	Universität Bremen	Germany
Andrej Tibaut	University of Maribor	Slovenia
Andreja Jonoski	IHE Delft	Netherlands
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Andrew Marsh	Autodesk Ltd	USA
Andrew Sullivan	Industrial Interfaces Ltd.	Ireland
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Anett Schulke	NEC	Germany
Anett Wünsche	T-Systems Multimedia Solutions GmbH	Germany
Anette Jörss	TU Dresden	Germany
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Angel Diez	Mondragon Corporation	Spain
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Angelo Frascella	AGENZIA NAZIONALE TECNOLOGIE	Italy
Angelo. Mancini	MTS Group	UK
Anibal Renones	Cartif	Spain
Anika Schumann	IBM	Ireland
Anita LLOYD Spetz	Linkoping University	Sweden
Anja Hofer	Institut für Wirtschaftsinformatik im DFKI	Germany
Ann Marie Phelan	RDJ	Ireland
Anna Peters	Hochtief Ag	Germany
Anne Burke	University College Cork	Ireland
Anne Gannon	University College Cork	Ireland
Anne Hatela	VTT Technical Research Centre of Finland	Finland
Annemie Wyckmans	NTNU	Norway
Annett Süß	Kanzlei Süß & Nolte Rechtsanwälte	Germany
Antje Junghans	NTNU	Norway
Anton Pirzer	Panasonic Deutschland GmbH	Germany
Antonio Jose R. Zea	CSEM	Ireland

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Antonio Paradell Bondia	SchlumbergerSema	Spain
Ardeshir Mahdavi	TU Wien	Austria
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Arjan Venmans	Deltares	Netherlands
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Atila Dikbas	Istanbul University	Turkey
Audrey Mitton	Bilfinger Berger	Ireland
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Axel Rauschmayer	TU München	Germany
B. Carlos Cantallops	Obrascon Huarte Lain, S.A.	Spain
Barbara Carret	CSTB	France
Barbara Hauptenbuchner	TU Dresden	Germany
Barbara Lagemann	IBM	Germany
Barbara Pietruszka	Instytu Techniki Budowlanej	Poland
Bärbel Fiedler	Sächsischer Bauindustrieverband e.V.	Germany
Barry Mullins	Bentley Systems Ltd.	UK
Barry O' Dowd	IDA Ireland	Ireland
Bauke De Vries	Technische Universiteit Eindhoven	Netherlands
Beate Kögel	Bilfinger Berger AG	Germany
Benjamin Poussard	Arts	Ireland
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Bernd Stange	Bearing Point GmbH	Germany
Bernd Steinfeld	Hochtief AG	Germany
Bernd Utesch	Abgnova Gmbh	Germany
Bernd W. Zastrau	TU Dresden	Germany
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Bernhard Kriechhammer	Latschbacher GmbH	Germany
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Brigitte Opitz	TU Dresden	Germany
Britta Wyatt	National Digital Research Centre	Ireland
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Bruno Smets	Philips Lighting	Ireland
Buehler, Carolin	HSG Zander GmbH	Ireland
Burcu Akinci	Carnegie Mellon University	USA
Burkhard Eling	HSG Zander International GmbH	Germany
Burkhard Pötter	t-Systems	Germany
Byron Protopsaltis	SOFiSTiK HELLAS Ltd.	Greece
Camine Pascale	Stress S.C.Ar.L.	Italy
Carla Gomes	Cornell University, Ithaca	USA
Carmelita Görg	Universität Bremen	Germany
Carsten Frentz	IBM	Germany
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Table 2: Full BaaS contact list