



FP7-2010-NMP-ENV-ENERGY-ICT-EeB

TIBUCON

Self Powered Wireless Sensor Network for HVAC System Energy Improvement - Towards Integral Building Connectivity

Instrument: Small or medium-scale focused research project - STREP
Thematic Priority: EeB.ICT.2010.10-2 – ICT for energy-efficient buildings and spaces of public use

D7.1 WEB PAGE OF THE PROJECT

Due date of deliverable: 31.10.2010

Actual submission date: 03.11.2010

Start date of project: 01.09.2010

Duration: 36 months

Organisation name of lead contractor for this deliverable: TEKNIKER



Dissemination level: PU

Revision Final

Change log

Version	Date	Change
0.1	18.10.2010	Structure of the Deliverable [MW]
0.2	27.10.2010	Included: Description of bookmarks [TEKNIKER, MW]
0.3	29.10.2010	Included: Print Screens of public website [TEKNIKER, MW]
1.0	03.11.2010	Deliverable ready for submission to EC

Main authors:

	Jon Mabe - TEKNIKER	jmabe@tekniker.es
	Piotr Dymarski - MW	p.dymarski@mostostal.waw.pl

Executive Summary [TEKNIKER]

Within task WT7.2 the involved partners has to create website which will be used for the external dissemination of the knowledge developed in the project. First should be designed functionality and content of service. Next step will concern graphic design of website and logo.

After the creation of the service, will be connected to the Google Analytics to examine the interest in the website.

Abbreviations




D	Deliverable
e.g.	<i>exempli gratia</i> = for example
EC	European Commission
etc.	<i>et cetera</i>
ICT	Information and Communications Technologies
TIBUCON	Self Powered Wireless Sensor Network for HVAC System Energy Improvement - Towards Integral Building Connectivity
WP	Work Package
WT	Work Task
HVAC	Heating, Ventilation, Air Conditioning

Contents

1	Logo of the project	7
2	Description of the bookmarks.....	8
3	Additional tools	10
4	Print Screens	11

1 Logo of the project

For the need of the project, TEKNIKER designed new logo.

	Colored logo
	Black and white logo
	Black and white logo

Logo includes a drawing which represents the wireless network. Its role is to remind that sensors will be able to control and communicate with Smart HVAC Actuators by wireless network.

The letter “E” in the word “PROJECT” symbolizes batteries or rather lack of them in our sensors. Harvesting system will be implemented.

The letter “C” in the word “TIBUCON” symbolizes Celsius, this means temperature and thermal comfort of users.

2 Description of the bookmarks

The website address of the project is www.tibucon.eu. The main menu of service contains the following bookmarks: Summary, Consortium, Project Results, Countries involved, Downloads and Gallery (Figure 2.1). The second menu contains: Home, Contact, Private area, News and Links (Figure 2.1). Short description of the functionality of bookmarks is presented below.

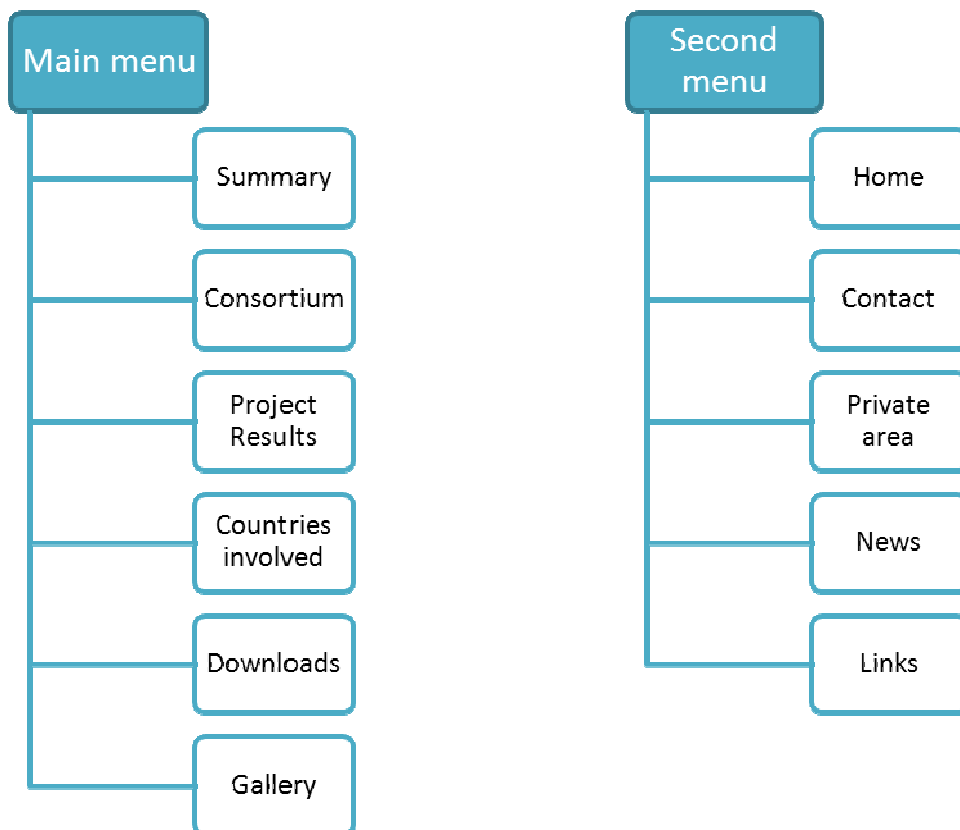


Figure 2-1: Division menu.

- Summary
 - Short description of the project;
 - Project objectives;
 - Solution deployment approach.
- Consortium (Figure 4-2)
 - Contact, logo, links and partner description;
 - Role in the project;
 - Contact, foto, curriculum vitae of key staff.

- Project Results
 - On this bookmark will appear information about the new achievements of the project.
- Countries involved (Figure 4-3)
 - Map with selected countries involved in the project. Table with list of the Participants.
- Downloads
 - Place where flyers, posters and public deliverables will be published.
- Gallery
 - Photos and videos created during the project.
- Home (Figure 4-1)
 - Introduction and general information about the project.
- Contact
 - E-mail address for the project (info@tibucon.eu) to communicate with stakeholders.
- Private area
 - Hyperlink for the project partners to internal website - Windows SharePoint Services 3.0.
- News
 - Short information about the project development.
- Links (Figure 4-4)
 - Hyperlinks to the European Commission, Seventh Framework Programme and other website related with HVAC and Energy Efficiency.

3 Additional tools

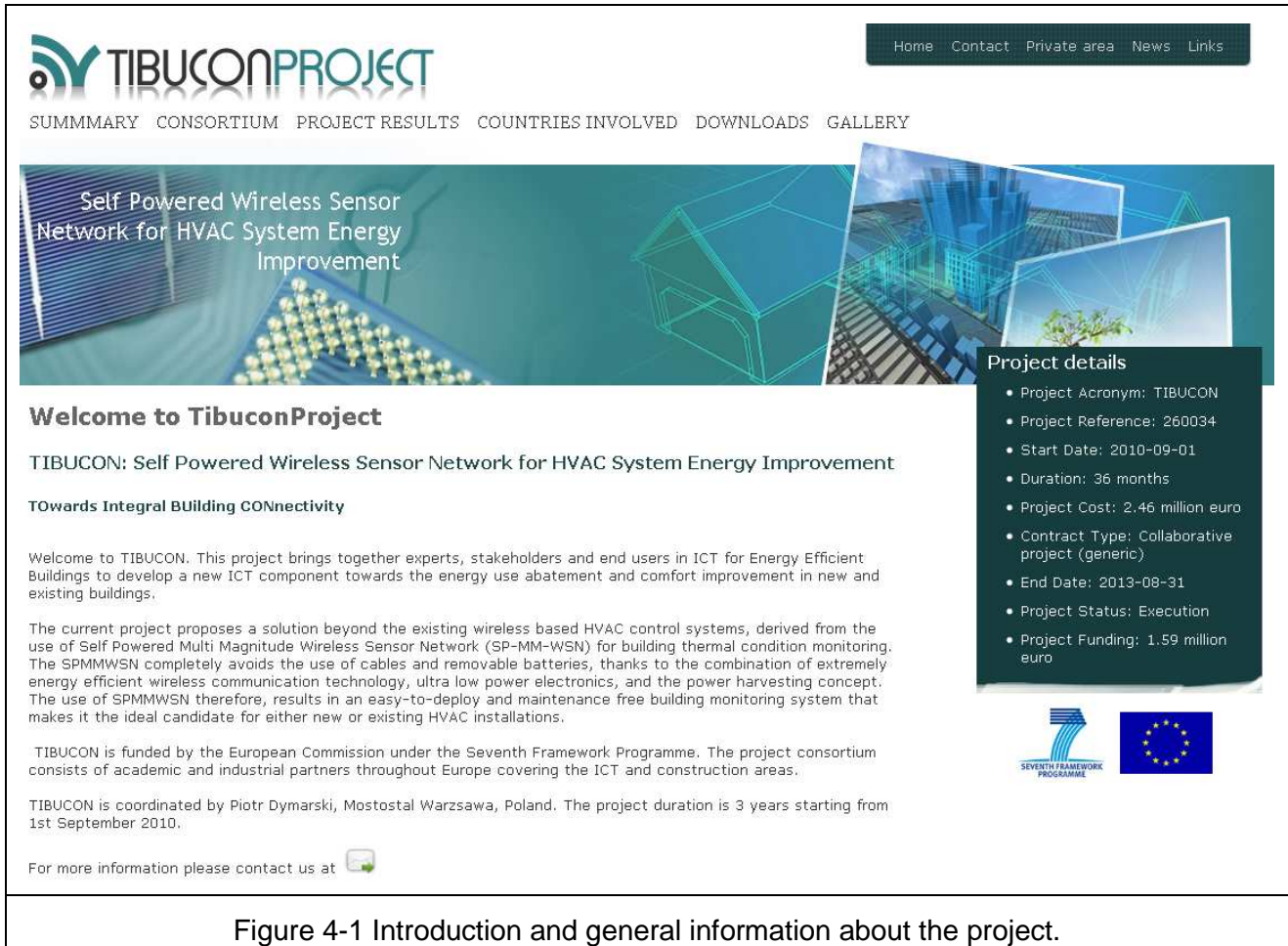
On the website it's possible to find additional tools, like:

- Hyperlink to Slideshare, with project profile where will be published public presentations.
- Hyperlink to Doodle, which facilitate the vote on various issues.
- Hyperlink to Netviewer, which will be used to video conference.
- The website is connected to the Google Analytics to track the interest (Figure 3-1).



4 Print Screens

Print Screens of the service are shown below:



The screenshot displays the TIBUCON project website. At the top left is the TIBUCONPROJECT logo. To the right is a navigation menu with links for Home, Contact, Private area, News, and Links. Below the logo is a horizontal menu with links for SUMMARY, CONSORTIUM, PROJECT RESULTS, COUNTRIES INVOLVED, DOWNLOADS, and GALLERY. The main content area features a large banner image with the text "Self Powered Wireless Sensor Network for HVAC System Energy Improvement". Below the banner is a "Project details" sidebar containing the following information:

- Project Acronym: TIBUCON
- Project Reference: 260034
- Start Date: 2010-09-01
- Duration: 36 months
- Project Cost: 2.46 million euro
- Contract Type: Collaborative project (generic)
- End Date: 2013-08-31
- Project Status: Execution
- Project Funding: 1.59 million euro

The main content area includes the following text:

Welcome to TibuconProject

TIBUCON: Self Powered Wireless Sensor Network for HVAC System Energy Improvement

Towards Integral Building CONnectivity

Welcome to TIBUCON. This project brings together experts, stakeholders and end users in ICT for Energy Efficient Buildings to develop a new ICT component towards the energy use abatement and comfort improvement in new and existing buildings.

The current project proposes a solution beyond the existing wireless based HVAC control systems, derived from the use of Self Powered Multi Magnitude Wireless Sensor Network (SP-MM-WSN) for building thermal condition monitoring. The SPMMWSN completely avoids the use of cables and removable batteries, thanks to the combination of extremely energy efficient wireless communication technology, ultra low power electronics, and the power harvesting concept. The use of SPMMWSN therefore, results in an easy-to-deploy and maintenance free building monitoring system that makes it the ideal candidate for either new or existing HVAC installations.


TIBUCON is funded by the European Commission under the Seventh Framework Programme. The project consortium consists of academic and industrial partners throughout Europe covering the ICT and construction areas.


TIBUCON is coordinated by Piotr Dymarski, Mostostal Warszawa, Poland. The project duration is 3 years starting from 1st September 2010.

For more information please contact us at 

At the bottom of the page, there are logos for the SEVENTH FRAMEWORK PROGRAMME and the European Union.

Figure 4-1 Introduction and general information about the project.

Partners 




Tekniker
ike4 research alliance


Tekniker-IK4 is an independent research organization, founded in 1981, whose main working focus is to improve manufacturing technologies, that includes all the situations that characterizes a product life cycle, from conception and design, until the end of working life. Automotive parts, machine tools, mechanical capital goods, aerospace, chemical & petroleum products and industrial and consumer electronics are the most relevant sectors served by Tekniker.

All technological objectives of Tekniker are addressed with a staff of 270 people, being the actual annual turnover of around 15M€. Tekniker has been involved in many research programmes: National, European and International and has a huge expertise in the coordination of European Projects (Integrated and STREP projects).

Role in the Project
Tekniker will take the leading of WP2 (Wireless Sensor and Actuator Network). In addition, Tekniker will be in charge of all the technical issues regarding ICT.


Contact Person:

Jon Mabe, R&D Project Leader, Electronics and Communications 




Jon Mabe holds a MSc in telecommunications engineering and is performing a PhD in fault tolerant digital signal processing. He works as Researcher in the Electronics and Communication Department and is experienced in the application of advanced and intelligent systems for sensor platforms and control systems, with many industrial and research projects, including EU-funded projects, such as Poseidon (FP6), Dinamyte (FP6), and Chameleon (FP7).

Workforce Involved



Eduardo Arceredillo: is the Director of the Electronics and Communication department. He is a senior research engineer with more than 20 years of experience in network protocols, embedded systems, very low-power design and real time operating systems. Currently he is been working on including advanced performance on top of WSN localization, security, global connectivity, and perpetual devices. He has participated in several European and national research projects.



Jorge Berzosa holds a MSc in Computer Science and is performing a PhD in Localization in Wireless Sensor Networks. He works as Researcher in the Electronics and Communication Department and his interests lay in the area of the WSN (localization, routing, monitoring...).

Figure 4-2 Consortium

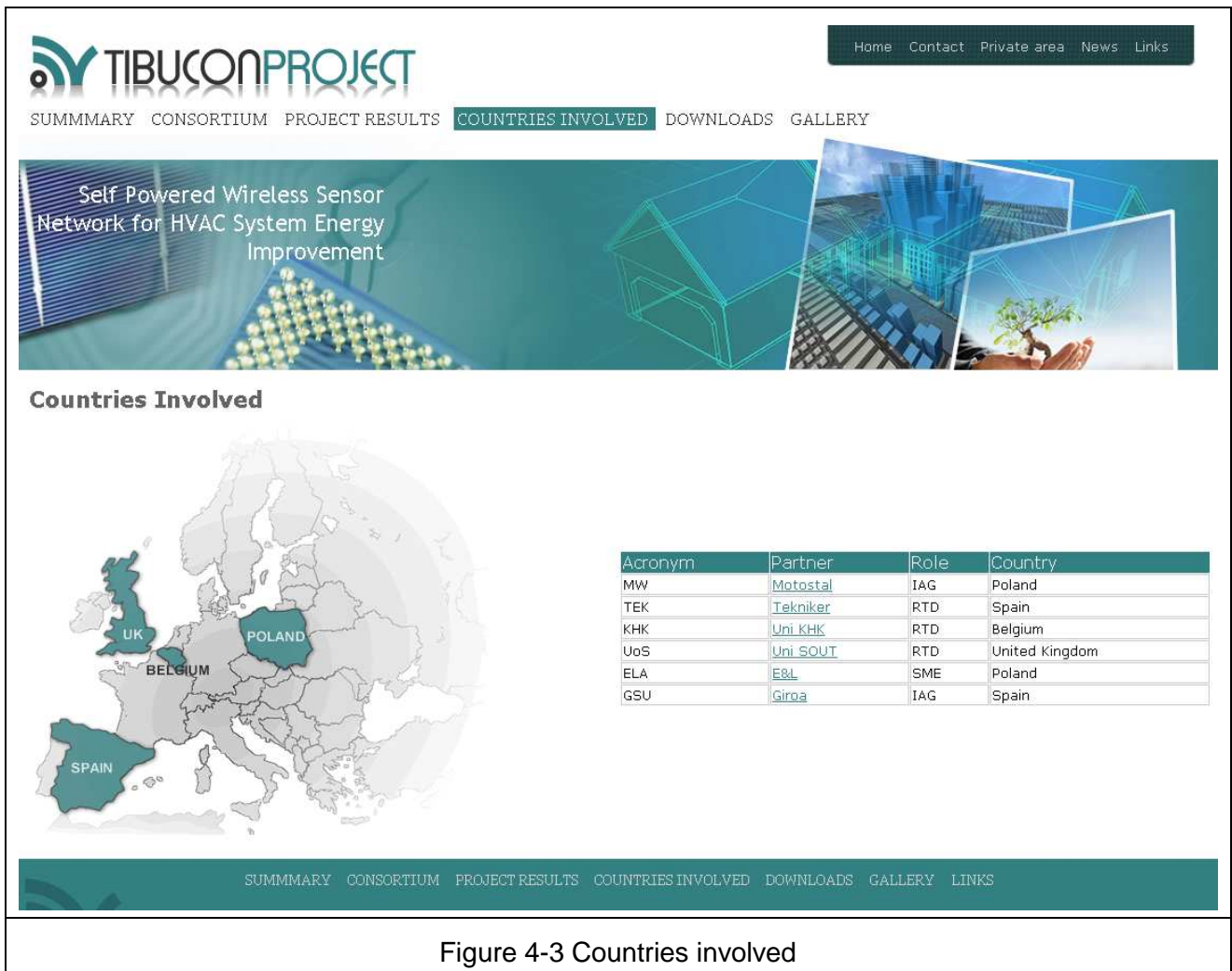


Figure 4-3 Countries involved

The image shows a screenshot of the TIBUCONPROJECT website. At the top left is the logo 'TIBUCONPROJECT' with a stylized 'i' icon. To the right is a dark navigation bar with links: Home, Contact, Private area, News, Links. Below the logo is a horizontal menu with links: SUMMARY, CONSORTIUM, PROJECT RESULTS, COUNTRIES INVOLVED, DOWNLOADS, GALLERY. A large banner features the text 'Self Powered Wireless Sensor Network for HVAC System Energy Improvement' over a background of a building, a sensor array, and a hand holding a plant. Below the banner is the section 'Tibucon Project Links' with a bulleted list of three links: [Project Fact Sheet](#), [ICT for Sustainable Growth](#), and [E2BA Organization](#). At the bottom of the page is a dark teal footer with a navigation menu: SUMMARY, CONSORTIUM, PROJECT RESULTS, COUNTRIES INVOLVED, DOWNLOADS, GALLERY, LINKS. On the right side of the footer are logos for slideshare, Doodle, and netviewer.

Figure 4-4 Links