



Deliverable 6.5

Digital management of the project and content production, Version 1

PLEGMA LABS S.A., Nikos Ipiotis

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www.eco-bot.eu



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D6.5 : Digital management of the project and content production Version 1

Summary

This deliverable documents the creation of the first version of the eco-bot project website which will be the main tool to communicate and disseminate the project's visibility and results. The name eco-bot.eu was chosen as the optimum domain, while the site was built on the WordPress platform, the most popular free and open-source content management system (CMS). The website will be kept online and updated for at least 5 years after the end of the project.

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PLEGMA LABS S.A.

DELIVERABLE AUTHOR(S)

Nikos Ipiotis (PLEGMA)
Sarantis Kotsilitis (PLEGMA)

QUALITY ASSURANCE

Reviewer 1: Stephanos Camarinopoulos (RISA)
Reviewer 2: Ekim Nazim Kaya (BOTEGO)

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DISSEMINATION LEVEL

- PU = Public
- PP = Restricted to other programme participants
- CO = Confidential, only for members of the consortium

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List of Acronyms and Abbreviations

CA: Consortium Agreement

CO: Confidential

DoW: Description of Work, referring to the Annex I of the Grant Agreement

EC: European Commission

GA: Grant Agreement

IPR: Intellectual Property Rights

PPR: Project Progress Reports

PSB: Project Steering Board

PU: Public

QA: Quality Assurance

SAB: Security Advisory Board

STC: Scientific and Technical Committee

WP: Work Package

Executive summary

This deliverable documents the creation of the first version of the eco-bot project website which will be the main tool to communicate and disseminate the project's visibility and results. The name eco-bot.eu was chosen as the optimum domain, while the site was built on the WordPress platform, the most popular free and open-source content management system (CMS). The website will be kept online and updated for at least 5 years after the end of the project.

1.1. The eco–bot domain name

The eco-bot.eu URL has been selected as the optimum domain name choice to portray our project branding as well as its European nature. The project URL is included in all communication and dissemination material as an integral part of our online and offline identity.

The eco-bot.eu URL has been added to the leading international search engines (i.e. Google, Bing, DuckDuckGo) thus increasing the visibility of our project's online presence.

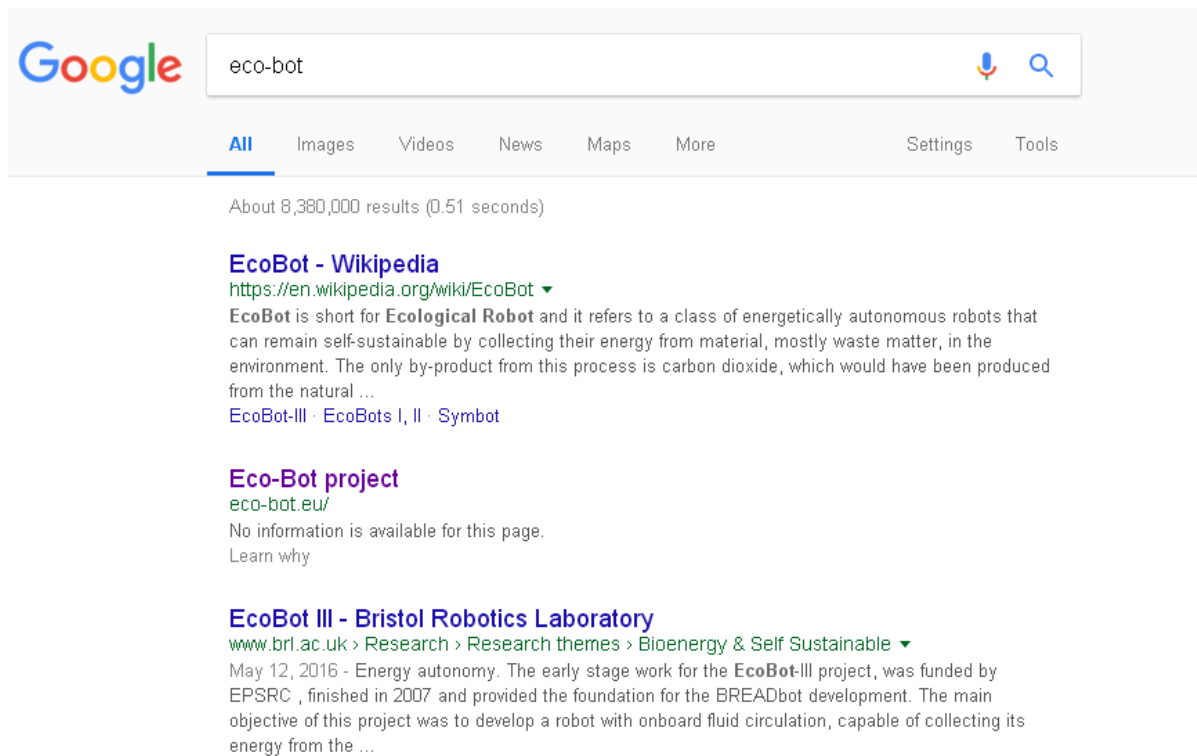


Figure 1 “eco-bot” search result (already ranking second in google)

1.2. Content management system (WordPress)

The aim of the eco-bot project website is to serve as a digital hub and an open forum for interaction and exchange between project beneficiaries, public authorities, and

stakeholders. Towards this means, we have decided to design it on WordPress, the most popular free and open-source content management system (CMS). The choice of this system will allow us to make use of various plugins and features such as easy multiuser publishing, seamless cross-linking to social media content from multiple sources, easy manipulation of UI/UX and all website content from a very user-friendly administration console etc. Also the numerous system updates supported by the vast developer community of WordPress is an extra assurance of the website's security and uptime.

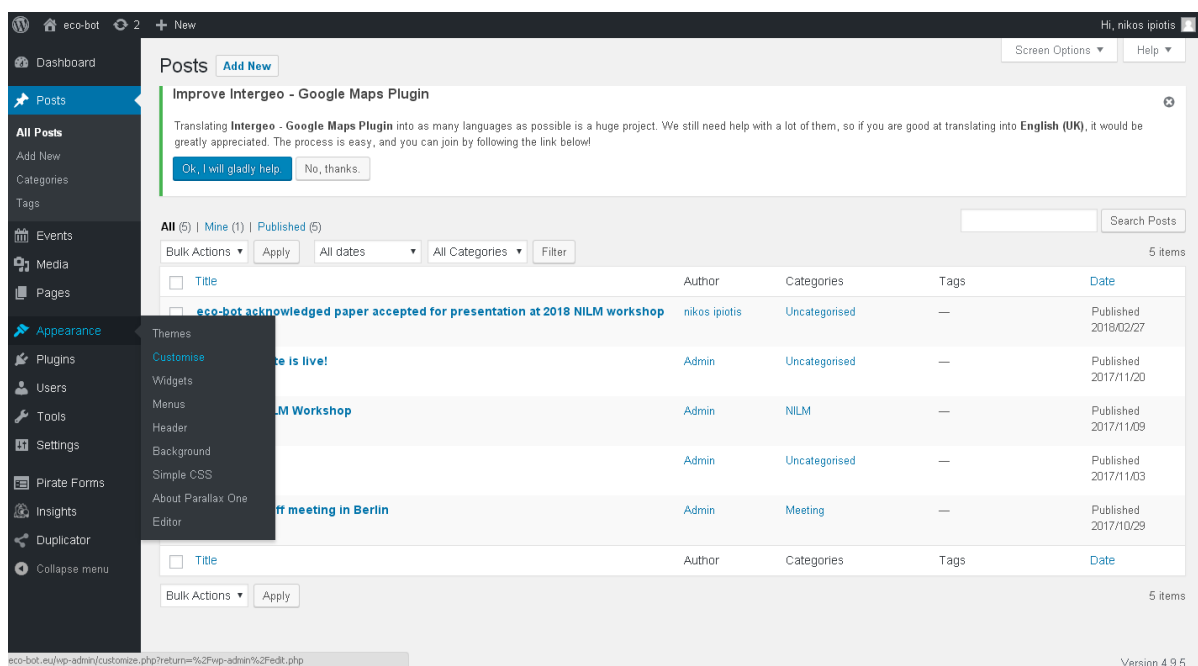


Figure 2: The eco-bot WordPress web-based administration console

1.3. eco-bot website Look & Feel (eco-bot theme)

The look and feel of the website has been designed to follow the basic guidelines of modern popular websites (WordPress themes). We have followed a mixed presentation strategy having both a “single page” layout displaying a vast amount of information, as well as a “multi-page” layout via the menu for more specific thematic information. The color scheme follows the basic color scheme of the logo and the dissemination material of the whole project.

1.4. eco-bot Categories (pages)

The first version of the website has the following pages:

- Home
- About & Quick Facts
- Partners
- Pilots
- News
- Contact



Figure 3: Categories in the eco-bot menu

1.5. eco-bot homepage

The eco-bot homepage was designed as a “single page” layout displaying a vast amount of information, while still allowing via the menu a more in depth single-page thematic view. The objective of this design is to welcome visitors to the website and quickly introduce them to all of the project’s main features. The home page recounts eco-bot’s main purpose, the pilots, the main technologies and modeling to be utilized, all project related news, and a call to action to try the chatbot (which will be live soon). Finally various information is present in the “footer” as explained in the respective section.

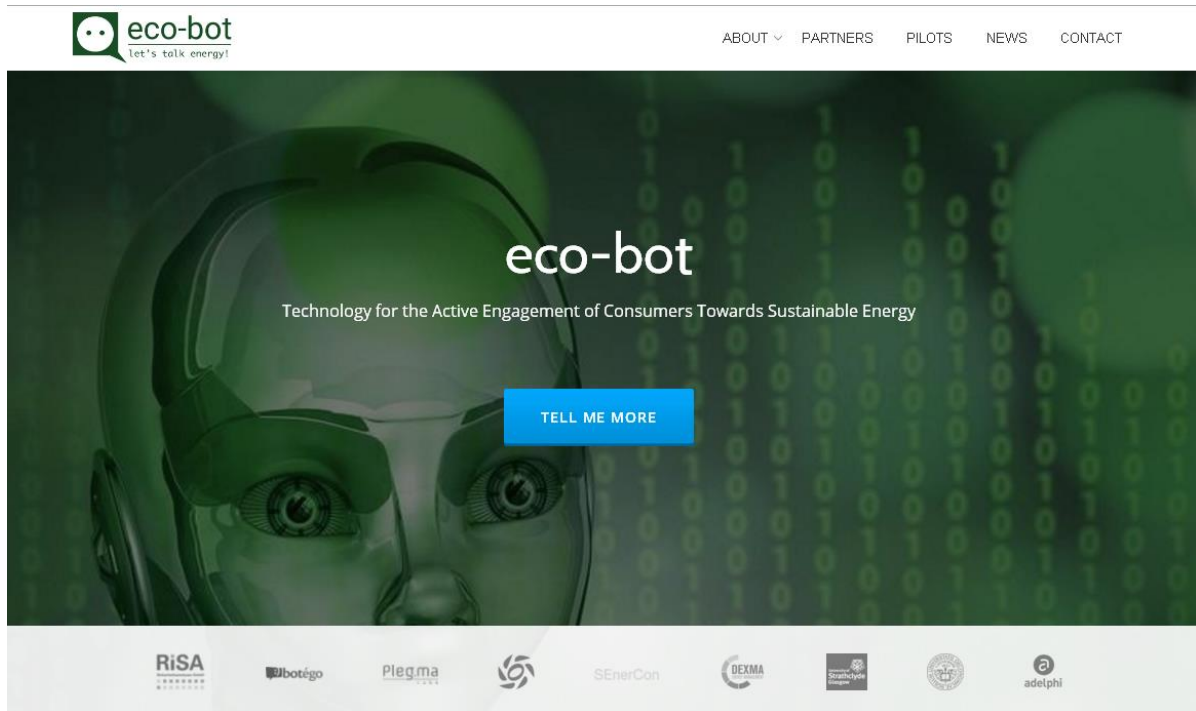


Figure 4: Home page screenshot

1.6. About page

The about page contains an lengthy and analytical description of the project including the aims and objectives as well as a narrative of our proposed methodology. It will undergo a major iteration once the first results start to come in from the pilot implementations.

ABOUT

Personalised ICT-tools for the Active Engagement of Consumers Towards Sustainable Energy

"Eco-Bot aims to utilize recent advances in chatbot tools and advanced signal processing (i.e. energy disaggregation) using low-resolution smart meter-type data with the goal of changing their behavior towards energy efficiency. Eco-Bot targets to a personalized virtual energy assistant to deliver information on itemized (appliance-level) energy usage through a chat-bot tool.

The "chat-bot" functionality will be used as an attractive frontend interface, permitting seamless communication in a more natural and interactive way than a traditional mobile application. This way, Eco-Bot aims to achieve a higher level of engagement with consumers than previous efforts (i.e. serious games, gamification, competitions or other interactive ICT), by adding a more engaging form of interaction with existing platforms which have been proven in different market settings.

The proposed system considers knowledge of the delivered multi-factorial models, including rebound-effects, as a result of the baseline research on both European and International activities. Then, based on advanced ICT, such as knowledge engineering, machine learning, expert systems, the project transforms the multi-factorial models for energy reduction to interactive, personalized and targeted recommendations to consumers on how to save energy.

Eco-Bot uses existing NILM (energy disaggregation) methods and advanced data analytics to break down consumption to the appliance level, where this is possible (smart meters at reasonable granularity with adequate information collected) so as to make consumers aware of their most energy-consuming devices.

The project will demonstrate the system in three different use cases, each one representing a different business model (B2B / B2B2C /B2C). We aim to validate our system across real and diverse conditions such as socio-cultural, environmental, demographic, climate and consumption, so as to draw concrete conclusions regarding performance, effectiveness, affordability, etc."

Figure 5: About page screenshot

1.7. Quick Facts sub-page

A Quick Facts sub-page was created in the about section in order to quickly provide all needed information to visitors

QUICK FACTS

- ✓ Project Number: 767625
- ✓ Project Acronym: Eco-Bot
- ✓ Project title: Personalised ICT-tools for the Active Engagement of Consumers Towards Sustainable Energy
- ✓ Duration: From 2017-10-01 to 2020-12-31
- ✓ Number of Countries: 6 (Germany, Spain, Turkey, Poland, UK, Greece)
- ✓ Number of partners: 9
- ✓ Requested EU contribution: EUR 1.964.145,38

Figure 6: Quick Facts page screenshot

1.8. Partners page

A page in a table format was created for the best reference to our project partners titles logos and links to their respective websites.

PARTNERS

RISA GmbH (Germany)	BOTEGO A.S. (Turkey)	Plegma Labs S.A. (Greece)
		
Estabanell y Pahisa Energia, S.A. (Spain)	SEnerCon GmbH (Germany)	DEXMA Sensors S.L (Spain)
		
University of Strathclyde (United Kingdom)	University of Economics in Katowice (Poland)	Adelphi GmbH (Germany)
		

Figure 7: Partners page screenshot

1.9. Pilots page

In this first version of the Pilots section we have the three brief descriptions of the end user cases. This will be enriched with extensive descriptions as soon as more information will be made available from the respective partners upon deployment.

PILOTS

eco-bot runs on three pan-European pilots: the power utility of Catalonia (Estabanell Business 2 Consumer use case), a leading SaaS Building Energy Management System with two ESCO/building managers in Spain and the United Kingdom (DexmaTech Business to Business use case) and an Energy Management System for private households in Germany (SEnerCon Business 2 Business 2 Consumer use case). Please see them described in more detail below:

PILOT No. 1: Electric Power Utility in Catalonia, Spain



The Estabanell electric power utility (business to consumer) use case will demonstrate how delivering personalized information on appliance-level usage and relevant efficiency tips can affect the behavior of utility customers. In this use case, we will show how the more "personal" nature of chat-bot technology leads to more engagement and also how appliance-level consumption information leads to better efficiency.

PILOT No. 2: Building Energy Management System users in Europe



DEXMA is a leading building energy management system provider, offering an international SaaS platform focused on energy efficiency with over 1000 active customers (building managers / energy managers). In this (business to business) use case we will demonstrate how chat-bot technology can better engage business users such as property managers.

PILOT No. 3: Residential users with smart meters in Germany



SEnerCon in collaboration with co2-online (business to business to consumer use case) reaches residential energy consumers directly via its energy monitoring / energy savings account, which is available in 10 countries. We will deploy the eco-bot making use of already available energy and demographic data.

Figure 8: Pilots page screenshot

1.10. News page

The News section is the main section where we plan to disseminate all relative content, following a chronological hierarchy and a "blog" layout.

ECO-BOT ACKNOWLEDGED PAPER ACCEPTED FOR PRESENTATION AT 2018 NILM WORKSHOP

© 27th February 2018

The eco-bot acknowledged paper titled "Electricity Usage Profile Disaggregation of Hourly Smart Meter Data" produced by the Department of Electronic and Electrical Engineering of the University of Strathclyde has been accepted and will be presented at the International NILM workshop to be held in March 2018 in Texas USA.



– For more info on the contents of the paper please visit the following link http://nilmworkshop.org/2018/proceedings/Poster_ID12.pdf

– For more information on the 2018 International NILM workshop please visit <http://nilmworkshop.org/2018/index.html>

[Edit](#)

EVENTS

[eco-bot workshop @Estebanell](#) on 4th December 2017 9:00 am

ECO-BOT NEWS

 [eco-bot acknowledged paper accepted for presentation at 2018 NILM workshop](#)
27th February 2018

 [eco-bot.eu site is live!](#)
20th November 2017

 [eco-bot at NILM Workshop](#)
9th November 2017

 [eco-bot logo](#)
3rd November 2017

 [eco-bot kickoff meeting in Berlin](#)
29th October 2017

JOIN ECO-BOT

If you are interested in seeing how the eco-bot works please sign up now as a beta-tester and be part of the 10 month training process.

To join us as an eco-bot beta-tester please [register here](#).

Figure 9: Example of a news entry

1.11. Contact page

The Contact page - apart from the coordinators' full contact information - has been designed with the Google maps API to depict all the addresses of the consortium partners' actual premises, pinned on an interactive map of Europe. Once the visitor clicks on an address pin, which can zoom down to street level, the left interface has all the partner information (available to google).

CONTACT

			
eco-bot email	coordinator address	coordinator telephone	coordinator name
info@eco-bot.eu	Xantener Straße 11 Berlin DE-10707	+49 30 315706-0	Mr. Stephanos Camarinopoulos

This is a map of all partner premises, contact your partner of choice accordingly:

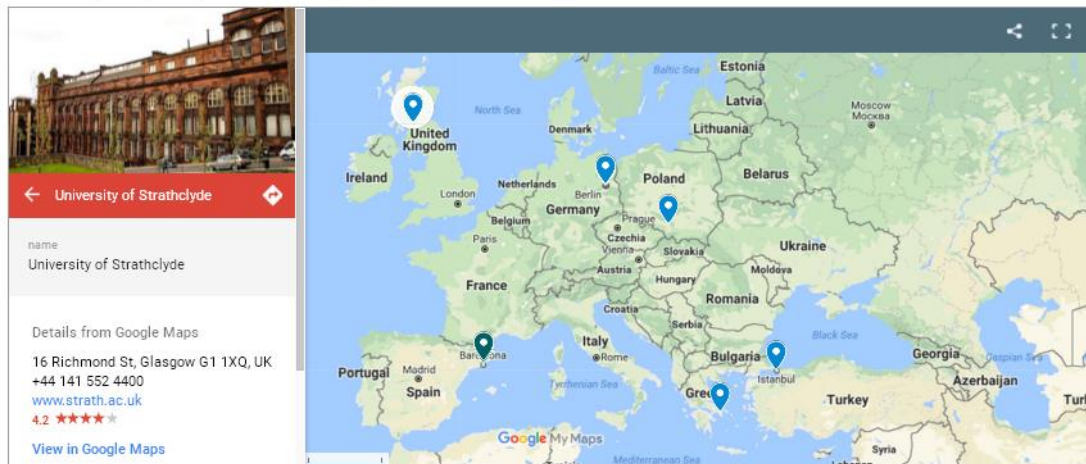



Figure 10: Contact page with interactive map

1.12. Website “global” footer

The “footer” section of the website (i.e. the steady bottom section throughout the website) contains selected useful information such as: the project EU funding info, a latest tweets widget, latest news in blog format and a quick sitemap. Also four icons to all utilized social media channels are omnipresent throughout the website, namely Facebook / Twitter / Youtube and LinkedIn.

eco-bot funding

This project is [co-funded by the European Commission](#) under the "H2020-EU.3.3.1. - Reducing energy consumption and carbon footprint by smart and sustainable use" program topic, according to the Grant agreement No. 767625




Co-funded by the Horizon 2020 programme of the European Union

eco-bot tweets


More talk on #IoT #security (and no action) <https://t.co/clzWHfCsop>
5 days

Millions of UK #smart #meters open to hack? #iot #security million pound question <https://t.co/GeA4lQYxh>
1 month


eco-bot news




[eco-bot acknowledged paper accepted for presentation at 2018 NILM workshop](#)
27th February 2018




[eco-bot.eu site is live!](#)
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[eco-bot logo](#)
3rd November 2017



[eco-bot kickoff meeting in Berlin](#)
29th October 2017

eco-bot menu

- [ABOUT](#)
- [QUICK FACTS](#)
- [PARTNERS](#)
- [PILOTS](#)
- [NEWS](#)
- [CONTACT](#)

eco-bot is social!




Figure 11: Global “Footer” section

Conclusion

The first version of the eco-bot website has been designed and implemented in order to act as the main dissemination tool of the project. The website content will be continuously updated as the project implementation progresses, and new categories (such as "publications" etc.) will be added respectively. The news section (the dynamic content) will be directly linked with the projects' social media channels (i.e. Facebook, Twitter, LinkedIn, Youtube) thus creating awareness as well as increasing interactivity. Finally, we will regularly track and monitor the usage of the website content by utilizing the "Google Analytics" tool, which we have installed throughout our content management system.