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Innovation Action



CleAnweb Gamified Energy Disaggregation



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D5.7 1st Year Dissemination report including communication material

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Abbreviations

ADDMA	Athens Development and Destination Management Agency		
CORDIS	Community Research and Development Information Service		
EASME	European Commission Executive Agency for SMEs		
ESCos	Energy Service/Savings Companies		
IEEE	Institute of Electrical and Electronics Engineers		
KPI	Key Performance Indicators		
MCIS	Mediterranean Conference on Information Systems		





Executive Summary

The main objective of the ChArGED dissemination strategy is to describe the achieved and planned dissemination activities and tools to ensure that various target groups get aware of the activities of the project. More specifically, through these activities, ChArGED aims to create public awareness and generate interest to different communities (scientific, industrial, wider public, policy makers, etc.) as well as to inform and consult industrial players in the field across Europe about the ChArGED solutions for energy efficiency in public buildings, in general. Dissemination/ Communication activities help towards the identification of the benefits of the ChArGED outputs and the exploitation of these in order to maximise the impact of the project on all stakeholders.

To this end, the project has been communicated (during the first year of its life) through different online and offline channels; these activities are thoroughly presented in this document.





1 Introduction

This report, part of WP5, summarises the dissemination activities, along with the communication material, that were performed during the first year of the ChArGED project. At the beginning of the project, the identity and the main communication channels with the stakeholders were built. The identity contributes into the recognition of the ChArGED project, and is mainly based on the graphical consistency of the material and the dissemination of project results. The following are the main topics of the ChArGED dissemination efforts during the first year:

- The ChArGED as a project in general,
- The ChArGED planned system and pilot applications,
- The ChArGED end-user requirements (results of WP2),
- The ChArGED architecture and initial design (results of WP3),

A wealth of activities, online and offline, have taken place. These are described in more detail in the next chapters.





2 Communication material

2.1 Logo and graphic identity

A logo was designed in order to make ChArGED recognisable. In order to make the graphic identity referable to the project name and innovation, a charged power indicator was designed and combined with a tree leaf, to show the positive environment impact that the project results may have by achieving energy efficiency.



2.2 Flyer and poster

A flyer was designed, as presented in D5.3 – Project flyer. The flyer is also publicly available for download at the ChArGED website.

Figure 1 ChArGED logo







Figure 2 ChArGED flyer

2.3 Presentation template

A presentation template was created, either for complete project presentation or for presentation of results, further contributing to the identity forming and making the project recognisable.

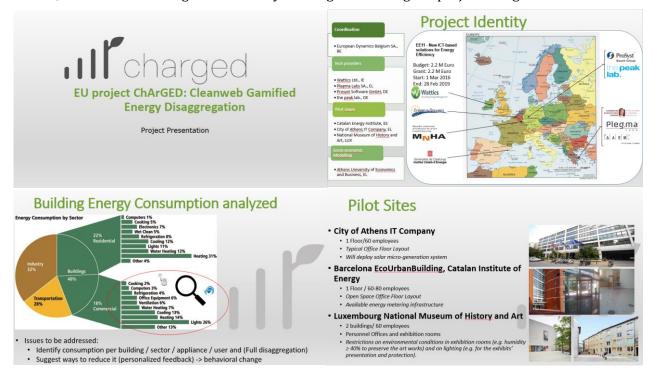




Figure 3 Extracts of ChArGED baseline presentation

2.4 Document templates

Although document templates can be considered part of the quality management, since some deliverables are public, the consistent form of these documents contributes to the ChArGED graphic identity.

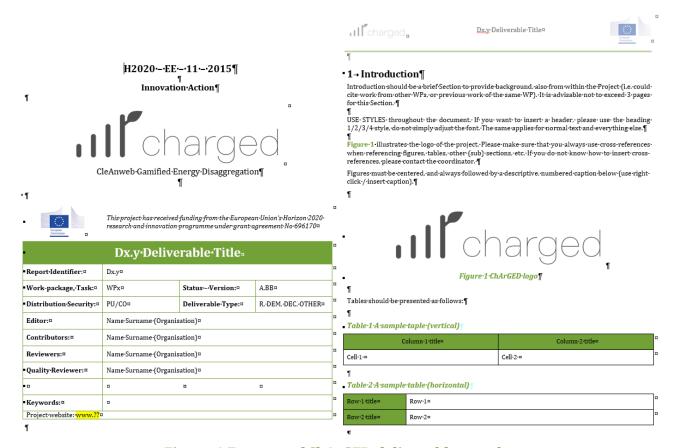


Figure 4 Extracts of ChArGED deliverable template





3 Online Activities

A website, at http://www.charged-project.eu/, was designed and updated with all the ChArGED latest news and events. The structure (sitemap) of the website is designed to qualify visitors with immediate access to all public information of the project. For the visitors' convenience almost all subpages of the website are accessible by the main page with respective quick links. Moreover, links to the social media accounts (LinkedIn and Twitter), "amplifying" the branding of the project, are available on the Main Page of the website.





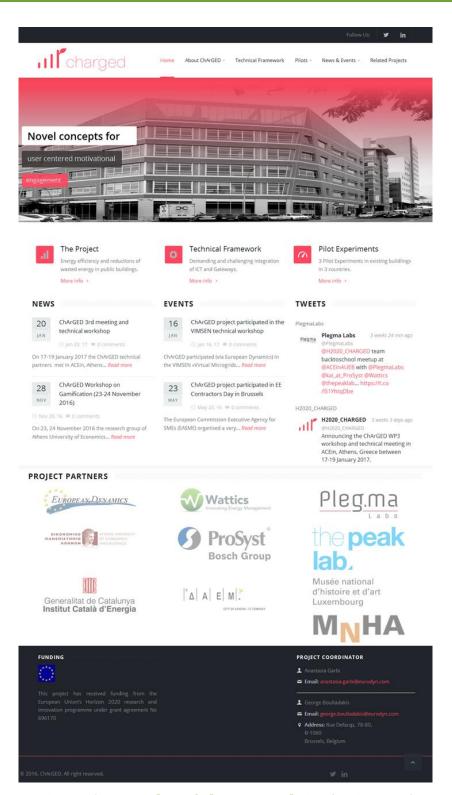


Figure 5 Screenshot of ChArGED website (main page)





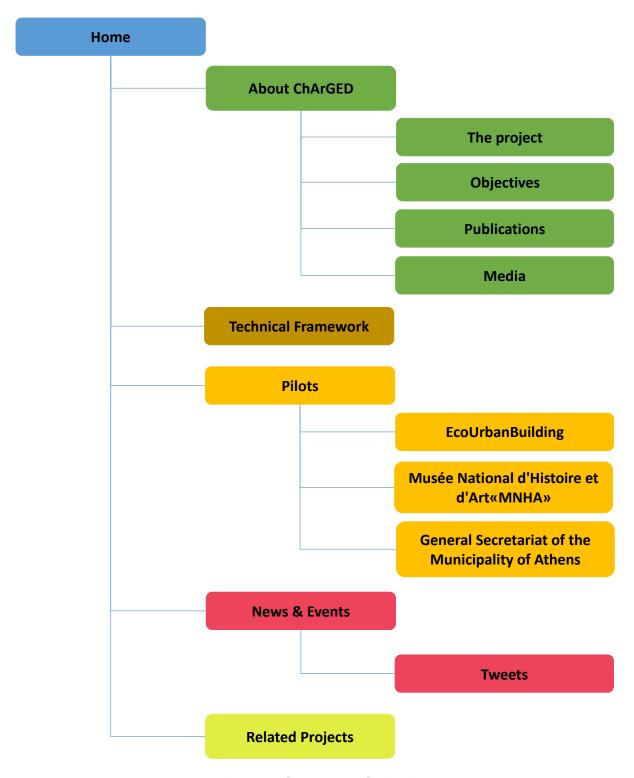


Figure 6 ChArGED website sitemap

The ChArGED website has proved highly effective in the dissemination of the project. The number of visitors shows increasing trends, while the monthly number of unique visitors is steadily in the range of





400 to 800. A boost at the number of visits appears in January '17, after the dissemination of ChArGED in the European Utility week and the VIMSEN project workshop.



Figure 7 ChArGED website sitemap

The duration of the visits, which is one of the factors in calculating the audience engagement¹, is steadily growing. It is worth to mention that this increasing trend in the duration follows the increased number of unique visits, validating the increased engagement and indicating that it the statistics are not random. More specifically, the monthly average duration is over 1.5 minute, while the overall average, for the website launch, shows steady increasing trend since early 2016, and settlement trend at over 3 minutes per visit.

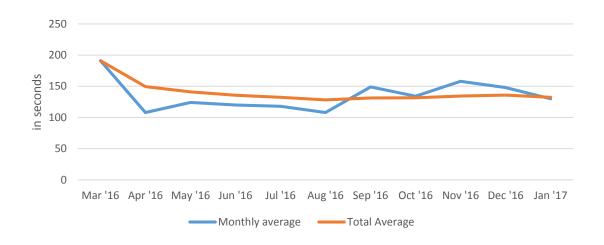


Figure 8 ChArGED website visit duration

_

¹ The other factors are: click depth, return frequency and long-term loyalty, Peterson E., Carrabis J., "Measuring the immeasurable: visitor engagement", WebAnalyticsDemystified, 2008





Hits via direct access on the project web pages show the same trends as the previous figures.

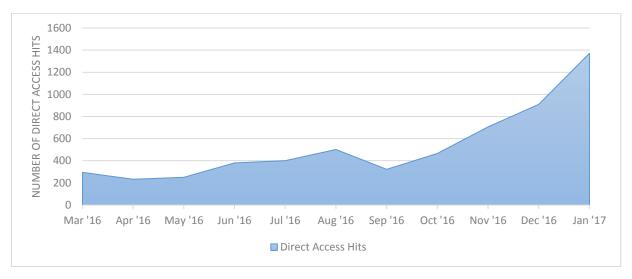


Figure 9 ChArGED website direct access hits

Public deliverables are also available for download at the website since October 2016. The total number of downloads over the last months is constantly over 20 downloads per month.

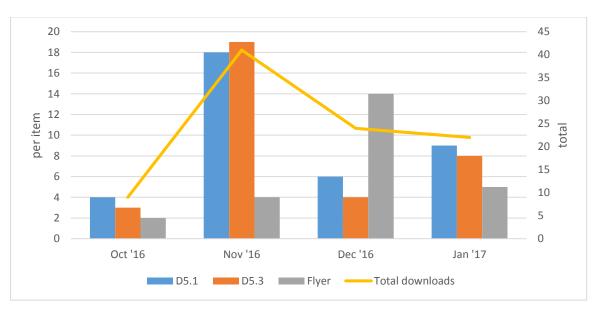


Figure 10 Public deliverables downloads



3.1 Social media

3.1.1 LinkedIn

A LinkedIn group was created and updated with the latest ChArGED news and events.

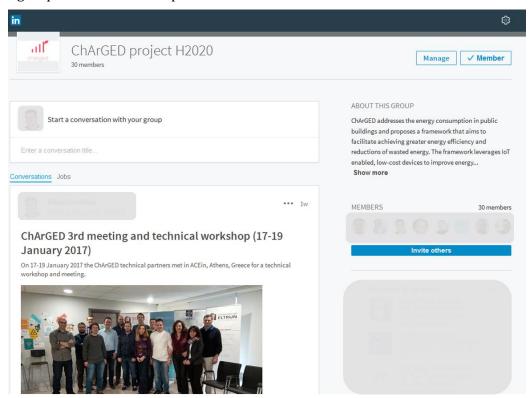


Figure 11 LinkedIn ChArGED group

Up to the time of creating this document the group had 30 LinkedIn members, including partners of the consortium as well as people and organisations that are willing to follow and participate in the ChArGED discussions and activities. The aim is to engage with the different communities (academic, industrial, etc.) and enable them to actively participate in the professional conversations or even initiate their own, thus creating a focused audience.

3.1.2 Twitter

A twitter account has been also set up and updated with the latest news and events.







Figure 12 ChArGED twitter account

Up to the time of creating this document the twitter account had 27 followers and a total of 15 tweets.

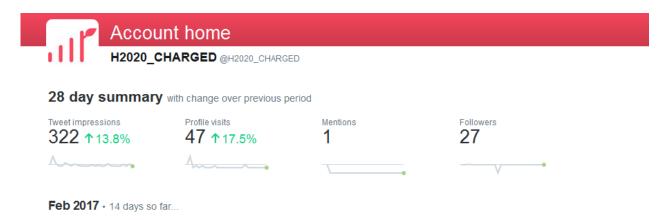


Figure 13 Last 28 days summary of Twitter account





The ChArGED tweet impressions, as expected do not have a constant number since they are largely dependent on the number and nature of the tweets themselves. However, a constant trend for an average value of 400 tweet impressions per month can be observed.

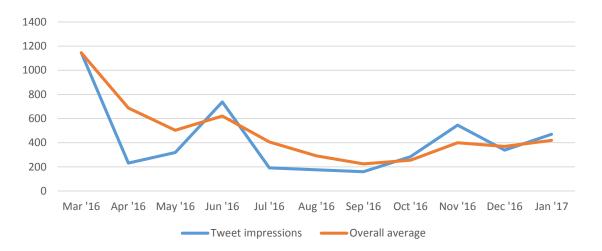


Figure 14 ChArGED tweet impressions

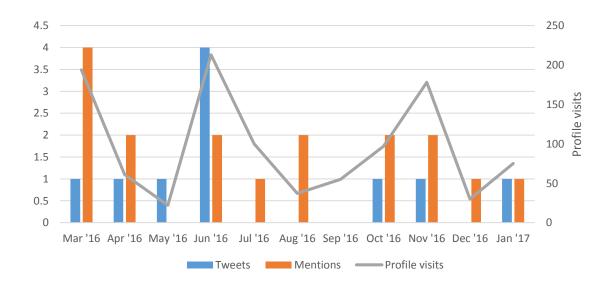


Figure 15 Twitter profile monthly statistics - Tweets, mentions and profile visits



3.2 EC and partner websites

Partners have added links to the ChArGED website at their own websites, boosting the overall visits.

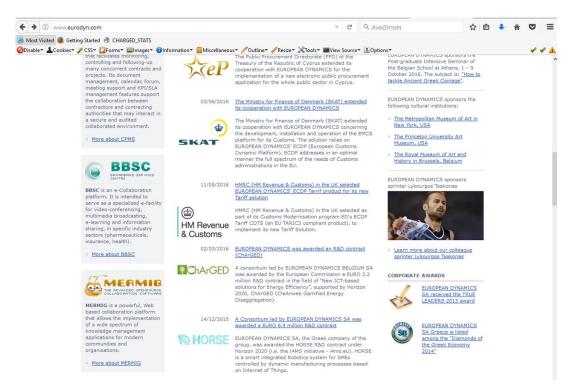


Figure 16 Example of partner website link (ED)







HOME

TECHNOLOGY

RESEARCH

PARTNERS

TEAM

CONTACT





Plegma Labs has inherited the expertise, technical know-how and hands-on project management experience of our founders, who have participated in numerous European Commission's Fourth, Fifth, Sixth and Seventh Framework Programmes for Research, some of which include: SENSORART, CELLO, TASS, VIPI, OPTI-TRANS, DARIUS, NEUROWEB, MAGNET, ORAMOD, PACWOMAN, EFIPSANS, CHRONIOUS, SKYMEDIA, OPEN-I, DIG, 3DTVS, TEFIS, DESSIN, VIMSEN etc.

7



We are actively pursuing opportunities to collaborate with other researchers, organisations and companies in the field of <code>IOT</code>, especially in view of the Horizon 2020 call; please feel free to contact us with your propositions.





Plegma Labs is very proud to be part of the CharGED project addressing energy consumption in public buildings. ChArGED proposes a framework that aims to facilitate achieving greater energy efficiency and reductions of wasted energy in public buildings. The framework leverages IoT enabled, low-cost devices (NFC or iBeacons) to improve energy disaggregation mechanisms that provide energy use and -consequently- wastage at the device, area and end user level.

Please browse the project portal for more information, news and partner updates www.charged-project.eu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 696170



Figure 17 Example of partner website link (PLEGMA)







Partnership Program

We offer our partners a strong set of resources and comprehensive support, enabling them to profitably grow their business and beat the competition.



+353 1 532 7875 | info@wattics.com



Figure 18 Example of partner website link (WATTICS)

Project information is also available at the EC Community Research and Development Information Service (CORDIS).







Figure 19 CORDIS project web page





4 Offline activities

4.1 Publications

4.1.1 Press articles

The following articles for ChArGED have been published to the press:

1. ChArGED - "Cleanweb Gamified Energy Disaggregation", article published at the

4.1.2 Scientific Publications

The following articles have been presented in conferences or published in scientific journals:

T. Papaioannou; V. Hatzi; I. Koutsopoulos, "Optimal Design of Serious Games for Consumer Engagement in the Smart Grid," in IEEE Transactions on Smart Grid, vol.PP, no.99, doi: 10.1109/TSG.2016.2582298 <u>URL:http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7494677&isnumber=54464</u>

Optimal Design of Serious Games for Consumer Engagement in the Smart Grid

Thanasis G. Papaioannou⁺I. Vassiliki Hatzi[†] and Iordanis Koutsopoulos[†]
"Center for Research & Technology Hellas (CERTH), Greece

[†]University of Thessaly, Greece

[†]Athens University of Economics & Business (AUEB), Greece
Email: *thanasis.papaioannou@iti.gr, [†]vahatzi@uth.gr, [‡]jordan@aueh.gr

Abstract—Serious games are a promising approach for demandable namagement that aim to higher user congagnment and evidence of the production games. We consume the production games when the production games are self-under a serious-game designer entity presents publicly to all consumers as lot of top-K consumers and a list of bottom-M consumers are soon when the production games when the production of the

International construction of the chain, it is the end-consumer to consumer to matter box explicitation to end consumer to the chain, it is the end-consumer to the chain and the end-consumer to the chain. The consumption in the consumer to the chain, it is the end-consumer that determines to large extent the mode of energy consumption in the consumption in the consumer to the chain, it is the end-consumer that determines to large extent the mode of energy consumption in the consumer to the chain and the consumer to the consumer to the chain and the consumer to the consumer to the chain and the consumer to the consumer to the consumer to the consumer to the chain and the consumer to the consume

may be unfair for already "green" consumers.

An online game for improving home energy behavior, named Power House, is proposed in [4]. Its objective is to track activities and assist each member of a virtual family to save energy, while real-world energy behaviors produce particular ingame advantages and disadvantages. An online serious game ("EnerCities") is presented in [3] to increase the environmental and energy-related awareness of secondary school students, and to influence their energy-related behaviors. Also, a virtual pet game designed for energy use reduction in a commercial office setting is presented in [15], where device-specific energy consumption is reflected in the fitness of virtual pets. There are also a number of studies on gamification in general [18].

consumption is reflected in the fitness of virtual pets. There are also a number of studies on gamification in general [18], [19], which verify that specific serious-game design elements, such as leaderboards, points and levels, positively influence tear participation, engagement and behavioral change.

In a different class of work, a number of game-theoretic dynamic-pricing schemes that involve interaction between the utility company and the consumers for energy-consumption smoothening have been proposed [13], [20]. However, [21] to shows that dynamic pricing mechanisms can lead to peak-shifting when consumers rationaly respond to price signate, and proposed to mancel intended rationality are employed. In our paper, consumers take decisions based on social influence, as opposed to financial incentives.

Finally, prospect theory is employed in [22] for studying the problem of customer-owned energy storage management in the smart grid in a less rational manner, as opposed to two Neumann-Morgenstern utility theorem employed here. In [22], a human player subjectively observes and makes be changing decisions based on the potential value of the benefit from selling energy and of the penalty from power regulation rather than the final outcome.

T. G. Papaioannou has been partially supported by the activities of EU project ChArGED (funded from the European Unions Horizon 2020 research and innovation programme under grant agreement No 696170). V. Hatzi and I. Koutsopoulos acknowledge the support of EROS-RECTIAL project, co-financed by Greece and the European Union (European Social Fund) through the Operational Program "Education and Lifelong Learning" - NSRF 2007-2013.

- T. G. Papaioannou, V. Hatzi and I. Koutsopoulos, "Optimal Design of Serious Games for Demand Side Management", in *IEEE SmartGridComm*.
- rious Games for Demand once rimming.

 2014.

 [2] T. Marsh, "Serious games continuum: Between games for purpose and experiential environments for purpose", Entertainment Computing, vol.2.

Figure 20 Extracts from the IEEE Transactions on Smart Grid paper

Kotsopoulos, Dimosthenis; Bardaki, Cleopatra; and Pramatari, Katerina, "Gamification, Geolocation and Sensors for Employee Motivation Towards Energy Conservation at the Workplace" (2016). The 10th Mediterranean Conference on Information Systems (MCIS 2016), Paphos, Cyprus, 4-6 September 2016.

URL: http://aisel.aisnet.org/cgi/viewcontent.cgi?article=1039&context=mcis2016







Figure 21 Extracts from the MCIS paper

4.2 Events

4.2.1 Participation in conferences, seminars and workshops

ChArGED was disseminated via the participation of consortium partners to various events.

Dissemination event #1: Workshop for EE 2014 & 2015 Coordinators

Date: 23-24 May 2016

Audience/Activity

EASME POs, EE2015/2015 project coordinators

Short description

The European Commission Executive Agency for SMEs (EASME) organised a very creative workshop for EE 2014 & 2015 Coordinators on the 23rd-24th of May 2016, in Brussels. Project coordinators had the chance to meet, present their projects, interact with the POs and get the insight of the "ICT for Energy Efficiency" initiative, acquire a clear view of the other projects' content and create synergies.





Figure 22 Extracts from the presentation given at the EASME workshop

• Dissemination event #2: Internet of Things Conference 2016, Athens-Greece

Date: 19 September 2016

Audience/Activity

Business Community, IoT researchers

Short description

The conference focused on the predictions and trend of the IoT ecosystem, the regulatory framework that will determine the function and the platforms upon which business applications will be based. A lot of case studies were presented to show the practical issues concerning the IoT ecosystem, which will eventually influence business plans and future investments. AUEB participated in the conference and presented ChArGED project to the audience (presentation title: IoT applications in Retail and Energy-efficient Workplace).

Webpage: http://iotconference.boussiasconferences.gr/default.asp?pid=1&la=2



Figure 23 Extracts from the presentation given at the Internet of Things Conference 2016 workshop





• Dissemination event #3: Stakeholder Engagement Event 2016-Icarus project (Integrated Climate Forcing and Air Pollution Reduction in Urban Systems)

Date: 03 November 2016

Audience/Activity

PAs (Greek), Local Authorities/Municipalities & Regions, Academia/Researchers, Business, NGOs, Institutes

Short description

The ICARUS Stakeholder Engagement Event was organized by the Athens Development and Destination Management Agency (A.D.D.M.A.) and the Environmental Engineering Laboratory (EnvE-Lab) of the Aristotle University of Thessaloniki (A.U.Th.) on 3 November 2016 in Athens. At the event distinguished experts presented their insights and discussed policy framework measures that together with the ICARUS innovative technological tools can contribute to air pollution reduction and mitigation of climate change and lead towards the development of Resilient Cities. DAEM participated promoting CharGED.

Webpage

http://icarus2020.eu/icarus-stakeholder-engagement-event/

https://www.facebook.com/daemitcompany/posts/1160117017376652



Figure 24 Photos from the ICARUS workshop

Dissemination event #4: European Utility Week 2016

Date: 15-17 November 2016

Audience/Activity

Utilities, hardware manufacturers, investors, ESCos

Short description

European Utility Week is the premier business, innovation and information platform connecting the smart utility community, with experts from utilities, network operators, vendors, consultants, startups and system integrators covering the entire smart energy value chain.

Wattics had a stand at the trade event and took the opportunity to promote CHARGED together with its own solutions for the duration of the event.



Webpage: http://www.european-utility-week.com



Figure 25 Photo from the WATTICS booth and the ChArGED screen at the European Utility Week

Dissemination event #5: Urban Policies Workshop

Date: 18-19 December 2016

Audience/Activity

PAs (Greek), Local Authorities/Municipalities & Regions, Academia/Researchers, Business, NGOs, Institutes

Short description

The Urban Policies Workshop Event was organized by CoE Civic School of Political Studies in Greece - Symbiosis and the Athens Municipality Resilience and Sustainability Office on 18 and 19 December 2016 in Athens. This Lab used a political and institutional perspective to explore cities as governance systems. Participants engaged in analysing urban politics and governance from political and institutional perspectives. The objectives included the exchange of best practices relating to the local authorities' communication with their citizens through information and data sharing. DAEM participated promoting CharGED.

Webpage

https://resilientathens.wordpress.com



Figure 26 Photos from the Urban Policies workshop

• Dissemination event #6: VIMSEN workshop

Date: 13 January 2017

Audience/Activity

EE project partners, related stakeholders, academics, entrepreneurs, researchers.

Short description

ChArGED participated (via European Dynamics) in the VIMSEN «Virtual Microgrids for Smart Energy Networks» technical workshop that was organized on 13 January 2017 in Athens, Greece with a presentation entitled "H2020 ChArGED project: Cleanweb gamified energy disaggregation"

Webpage: http://www.ict-vimsen.eu/index.php/news







Figure 27 Extracts from the VIMSEN workshop agenda



Figure 28 Extracts from the presentation given at the VIMSEN workshop

4.2.2 ChArGED, Organisation of conferences, seminars and workshops

Event: ChArGED WP3 workshop on Gamification Design

Date: 23 - 24 November 2016

Audience/Activity





WP3 partners, invited external innovators/experts.

Short description

A ChArGED WP3 workshop on Gamification Design was hosted by AUEB in the Athens Center for Entrepreneurship and Innovation (ACEIn) in Greece. During this workshop external innovators (in the areas of gamification and mobile app design) were invited to assist the WP3 partners in the concept of the ChArGED game and mobile app design/development. The workshop included a presentation of the main ChArGED concepts to the invited experts, as well as brainwritting 6-3-5 method sessions in order to gather ideas for developing candidate scenarios, epicss, acceptance criteria and userstories that would be used as inputs for the generic ChArGED game and mobile App design.

Webpage: http://www.charged-project.eu/?q=content/charged-workshop-gamification-23-24-november-2016





ChArGED Gamification Design Workshop

23 – 24 November 2016, 10:00 – 17:00

Athens Center for Entrepreneurship and Innovation
Greece, Athens, Kefallinias 46, 2nd Floor

Wednesday 23rd November 2016					
Time	Module	Presented By / Facilitated By	Attended By	Module Outcome	
09:00 - 09:15	Welcome / Registrations	AUEB	Partners and Invited		
09:15 - 09:45	Workshop Agenda Presentation	AUEB	Partners and Invited	Presentation of Agenda and Brainwriting 6-3-5 Familiarization	
09:45 - 10:45	Gamification in Energy Efficiency SoA	AUEB	Partners and Invited	Familiarization with Project Scope Current trends of Gamification in Energy Efficiency, Indicative output of User feedback	
10:45 - 11:00			Coffee Break		
11:00 - 11:30	New Concepts Design: Brainwriting 6-3-5 Method	AUEB	Partners and Invited	Different top level game concepts	
11:30-12:00	New Acceptance Criteria Design: Brainwriting 6-3-5 Method	AUEB	Partners and Invited	Different in-game structures of actions / reaction	
12:00 - 14:00	NCD : Elaboration on previous module	AUEB and PEAK	Partners and Invited	First rough version of EPICs + AC	
14:00 - 14:30	Lunch (And/or Voting dependent on Philippe's schedule)				
14:30 - 17:00	Outline of NCD + Voting	AUEB	Partners	Updated version of EPICs	

Figure 29 Extract from the Gamification workshop agenda







Figure 30 Photos from the Gamification workshop





5 Impact evaluation

Key Performance Indicators for the impact evaluation are documented in D1.1 – Project management plan. It is worth to mention the high rate of success of the dissemination and communication activities, with most of the targets to have been overachieved.

Table 1: Targets and actual impact of the dissemination and communication activities

		КРІ	Target (M36)	Target (M12)	Achieve	ed	
		5-1-1 Visibility of the public ChArGED website	Approxim ately 1500 visitors	500	4597	✓ ८	
		5-1-2 Number of written and electronic publications (in academic and technical media)	≥ 5	2	2	√	
	5-1	5-1-3 Number of written and electronic publications (in industrial, business and public media)	≥ 5	1	1	✓	
	Effectivenes	5-1-4 Number of website / newsletter articles via partner's channel	≥ 5	1	1	✓	
	s and Impact of	5-1-5 Number of presentations (in symposiums, meetings, congresses)	≥ 6	2	3	√	
	Disseminati on activities	5-1-6 Number of Project workshops	≥1	1	1	\checkmark	
WP5		5-1-7 Number of followers on Twitter	≥ 50	20	27	✓ 3	
- Proj		5-1-8-Number of followers on LinkedIn	≥ 50	20	30	√ 3	
ect Impa		5-1-9 Number of publications on LinkedIn	≥ 15	5	11	✓ 3	
ct		5-1-10 Number of Communication videos	≥ 1	0	0	•	
	5-2 Innovation creation and exploitation activities	5-2-1 Number of third party organisations contacted for technology licensing	≥3	0	0	•	
		5-2-2 Participation to industry leading trade fair events	≥ 3	1	1	✓	
		5-2-3 Number of partners integrating part of the Project' technology within own product range	≥ 2	0	0		
	5-3 Business Modelling and Socio- economic Sustainabili ty	5-3-1 Number of new business models (BMs) for offering gamified solutions for energy efficiency are defined and evaluated	≥3	0	0	√	
		5-3-2 Expected socio-economic evaluation of the project solution based on the data from the pilot studies	Positive	N/A	N/A		
✓ Achie	✓ Achieved			Target for M24			
d Significant overachievement discrepance of the significant overachievement over the significant over the s			X Not Achieved				





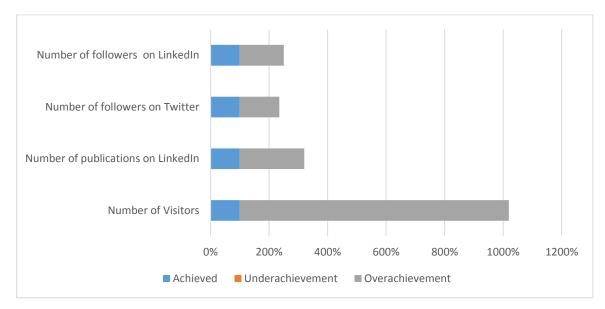


Figure 31: Actual performance compared to yearly targets

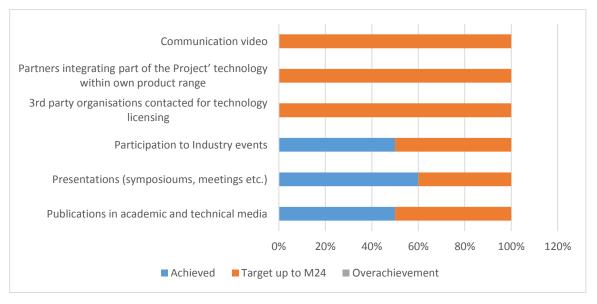


Figure 32: Actual performance and distance to cover for M24 targets





6 Conclusions

The project has overall conducted various dissemination activities for the first year. Most of the relevant KPIs for the period have been achieved and some of them significantly overachieved. The project will continue to intensify these activities during the next year, especially since more results will be available that can be demonstrated.