
***The Framework Programme for Research & Innovation***
***Innovation actions (IA)***

*Project Title:*

**Autonomous self powered miniaturized intelligent sensor for environmental sensing and asset tracking in smart IoT environments**

**AMANDA**
**Grant Agreement No: 825464**
**[H2020-ICT-2018-2020] Autonomous self powered miniaturized intelligent sensor for environmental sensing and asset tracking in smart IoT environments**

**Deliverable**

# D7.4 Dissemination and Communication with Relevant Activities Reports v1

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|---|---|---|---|
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## Executive Summary

The objective of **Deliverable D7.4 - Dissemination and Communication with Relevant Activities Reports v1** is to provide an overview of the dissemination, communication, and marketing activities of the AMANDA project during the first 12 months of the project. The overall objectives of the dissemination and communication activities are to promote the results and benefits to a range of relevant target audiences. These include publications, events, workshops, and talks. The target audience is members of academia and industry, as well as the general public.

Dissemination activities are continually updated, both with the list of publications available on the project's website (http://amanda-project.eu/) as well as through this particular Deliverable, subsequently updated on M24 and M36 of the project.

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## List of definitions & abbreviations

| Abbreviation | Definition |
|---|---|
| ASSC | Autonomous Smart Sensing Card |
| B2C | Business-to-Consumer |
| ESS | Electronic Smart Systems |
| KPI | Key Performance Indicator |
| PMIC | Power Management Integrated Circuits |

# 1 Introduction

**Deliverable D7.4 - Dissemination and Communication with Relevant Activities Reports v1** presents an overview of the dissemination, communication and marketing activities established during M1-M12 of the AMANDA project. The objective of dissemination and communication activities is to promote the results and benefits of the project as well as the activities of the AMANDA project partners. The target audience of these activities are users from the industry, the ESS community, the academic community as well as policymakers. The dissemination and communication activities during this period include:

- Visual identity of the project
- AMANDA public website launched at M1
- LinkedIn group
- AMANDA Twitter account
- First AMANDA project's press release
- AMANDA poster and marketing materials
- Presentation AMANDA project at different tradeshows, conferences and talks

The objectives in the first year of the project are defined in **Deliverable D7.3 - Dissemination and Communication Plan v1** and include:

- Creation of the project branding and identity
- Finalization of the project's logo and colour scheme
- Create publicity materials: including leaflets/brochures, posters and other materials
- Creating the project's website including information on the consortium members and the project's function
- Social media:
    - Twitter – posted 10 tweets
    - Facebook and LinkedIn profiles created
- Attendance and/or hosting of up to 3 relevant networking events or workshops addressing the target communities, stakeholders and end-users
- 1 newsletter
- 2-3 project publications (articles and/or papers and/or presentations)
- At least 5 blog entries

The consortium's decision was to remove its presence from Facebook, considering that Facebook is not a social media suitable to scientific and research projects such as AMANDA. To measure the dissemination success and impact of the project, several Key Performance Indicators were established. The following table summarizes the KPIs introduced in **Deliverable D7.3 - Dissemination and Communication Plan v1:**

| Communication & Dissemination Supports and Channels | KPIs |
|---|---|
| Leaflet | 1 project version + 2 technology specific (results) |
| Poster | 1 initial version + update |
| Reference PPT presentation | 1 initial version + update |
| Project newsletter | 6 (semestrial issue) |
| Articles and proceedings | 3 publications per year (in average) |
| Project deliverables | See list of deliverables |
| Open access repository | 1 deposit per year |

| | |
|---|---|
| Project video / demo | 1 initial version + update |
| Project website | 1 website, monthly updated |
| Related websites | 10+ |
| LinkedIn | At least 1 monthly update |
| Twitter/Facebook | At least 1 weekly update |
| Presentation & feedback sessions (incl. webinars) | 3 |
| Training sessions | 3 |
| External events | 30+ |

Table 1 List of KPIs

The ambition of dissemination, communication, and networking activities include the exchange of experience, scientific and technological knowledge as well as to establish cooperative relationships with the relevant scientific and industrial partners.

# 2 Dissemination and Communication Activities

## 2.1 AMANDA logo

The AMANDA logo was created at the very beginning of the project. The main objective of the logo is to achieve a clear visual recognition of the project. The logo is an integral part of every document and material related to the AMANDA project, aiming to set the baseline for a brand identity for further commercial service. The project logo depicts the Amanda project vision and goals. There are three sections of the logo. The lower part is the hand reflecting the main message of the project "The world in your hand". A credit card symbol graphically portrays the middle section and symbolizes the form factor of the AMANDA card. The upper part of the logo reflects the ASSC-related architectural elements, made up of symbols that depict the sensors and a wireless connection to the world. Other symbols represent ASSC autonomy: PV module and battery.

Figure 1 AMANDA logo

## 2.2 AMANDA website

The AMANDA website is designed for the purpose of publishing all materials (promotions and publications) on a project funded by the European Commission. The website contains seven parts:

- Home – https://amanda-project.eu
- About - https://amanda-project.eu/about
- Consortium - https://amanda-project.eu/consortium
- News - https://amanda-project.eu/news-events
- Documents - https://amanda-project.eu/documents/public-deliverables
- Advisory board - https://amanda-project.eu/advisory-board
- Contact - https://amanda-project.eu/contact

The website is a leading platform for dissemination and promotion of the project. It contains the most crucial information about the project and is updated continuously. The content of the website is presented in several separate sections. The AMANDA project logo and the AMANDA Poster have been published in the *Dissemination materials* section (https://amanda-project.eu/documents/dissemination-materials). The promotional materials are free to download from web sites. The *News and Events* section (https://amanda-project.eu/news-events) has published more than 50 posts related to partner activities and project-related news and events. The *Public deliverables* section (https://amanda-project.eu/documents/public-deliverables) contain all publicly available documents. The *Scientific papers and publications* section (https://amanda-project.eu/documents/scientific-papers-and-publications/com-weblinks) contains the published scientific papers of the project. Members of the Advisory Board (https://amanda-project.eu/advisory-board) are presented on the website. The official contact e-mail of the AMANDA project is amanda@amanda.eu represented with the link in the *Contact* section (https://amanda-project.eu/contact).

## 2.3 Social Media Channels

### 2.3.1 LinkedIn

LinkedIn is a social network specifically designed for career and business professionals to connect. Over 65 million professionals use LinkedIn to cultivate their careers and businesses.

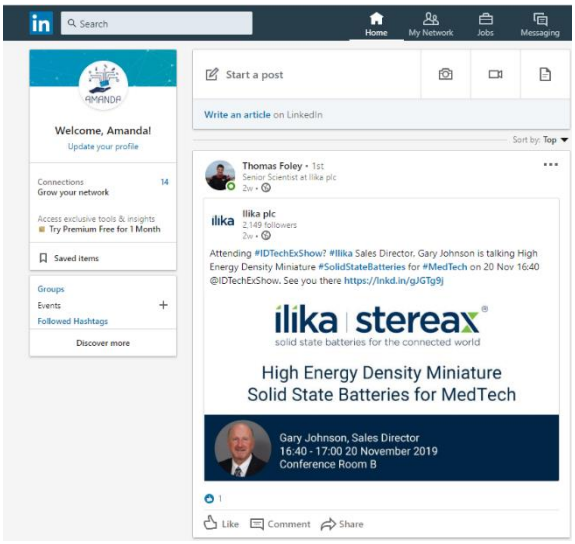


Figure 2 AMANDA LinkedIn Profile

The AMANDA profile has been created for discussion and networks with specific audiences. The total amount of users are 13 connections, 820 post views and 6 search appearances. AMANDA's activities on LinkedIn are publication of posts on the latest project developments, news, and links to relevant content. The audience who follow AMANDA profile comes mostly from partners on the project and audience from various conferences and tech-talks.

### 2.3.2 Twitter

Twitter is an online news and social networking site where people communicate in short messages. Twitter can support the development of communities with specific interests. AMANDA is represented by both "following" relevant accounts and being "followed", and by the publication of short posts on the latest project developments, news, and links to relevant content. At the end of M12, the official AMANDA Twitter account has 6 followers, 254 Impressions and 11 engagements.

Figure 3 AMANDA Twitter Account

## 2.4 Project communication materials

Published promotion and communication materials for the AMANDA project are the AMANDA Poster as well as the first press release. Both are available on the following link: https://amanda-project.eu/documents/dissemination-materials. The poster's goal is to attract the visitors attention and make a brief introduction about the project objectives. The slogan of the project "The world in your hand" is in the upper part. The second part is a stylized photograph of a hand with an ASSC. On the image, symbolically are illustrated the card's autonomy and multisensory characteristics. The third part contains the project logo with a short descriptions of the card's concept, impact and implementation. Fourth, the bottom part presents the project partners and their logo. The partners use the poster at each of the activities in which they engage. The poster is an integral part of the visual presentation.


Figure 4 AMANDA poster and first press release

## 2.5 Participation in externally organized events

In the prior period, M1-M12, the partners have communicated about their activities aiming to promote the AMANDA project. The main objective is to present the AMANDA project and to enlighten the audience with the project objectives. Specific information on the participation of AMANDA partners on a number of externally organized events is given at the end of this Section (where applicable).

| Type of activity | Number of events |
|---|---|
| Posters | 2 |
| Presentations to potential customers | 10 |
| Tradeshows | 6 |
| Website update | 3 |
| Tech talks | 4 |
| Conference papers | 3 |
| Conferences | 1 |

| | |
|---|---|
| Scientific papers | 1 |

Table 2 Number of events per type of activity-attended

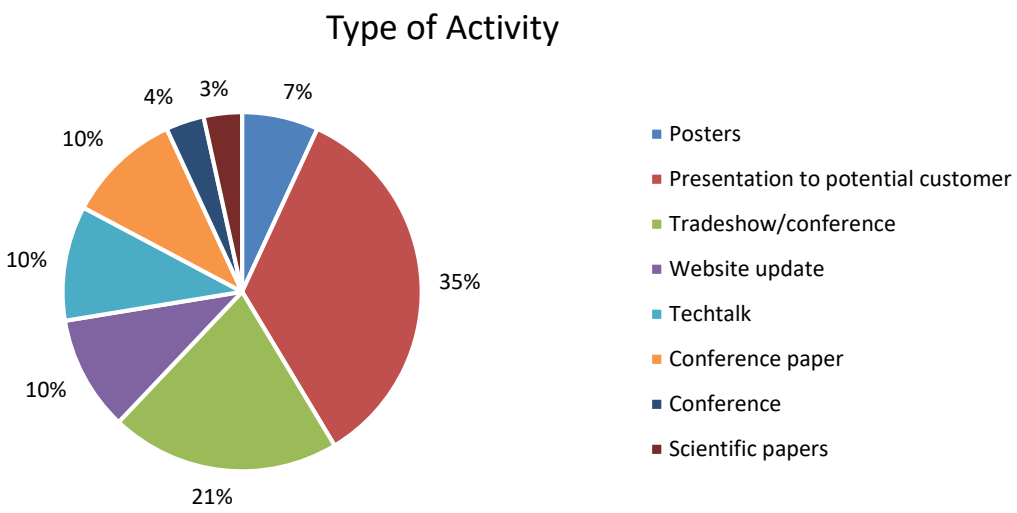



Figure 5 Type of activity-attended

In the coming period, the partners plan a whole range of activities. Table 3 below shows the types of activities and the estimated number of events that partners are planning attend. In the activities, emphasis will focus on the achievements of the project.

| Type of activity | Number of events |
|---|---|
| Publications | 2 |
| Tradeshows | 22 |
| Conference papers | 2 |
| Conferences | 4 |
| Scientific papers | 3 |

Table 3 Number of events per type of activity-foreseen

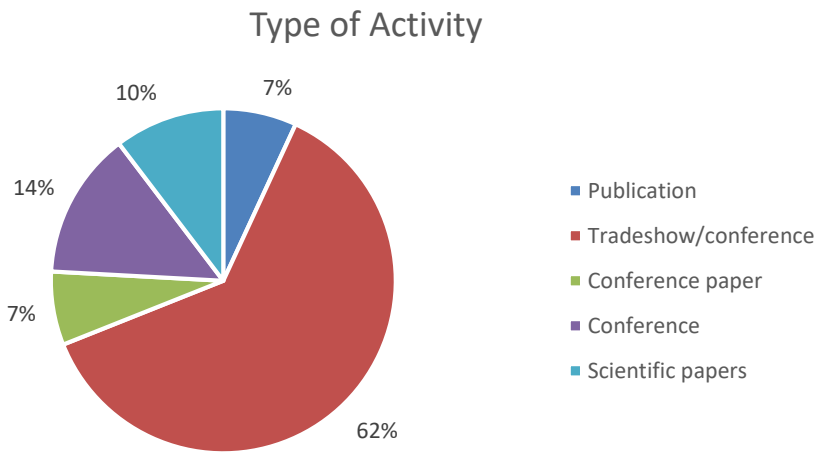



Figure 6 Type of activity-foreseen

### 2.5.1 CERTH participation

#### 2.5.1.1 Attended participation

| Type of activity | Title | Content of activity | Date | Place/country |
|---|---|---|---|---|
| Confer-ence | 2019 IEEE Interna-tional Conference of Consumer Electronics (ICCE) | AMANDA: An Auton-omous Self-Powered Miniaturized Smart Sensing Embedded System | 10/09/2019 | Berlin/Ger-many |

Table 4 Dissemination activities by CERTH

| Type of audience | Size of audience |
|---|---|
| Scientific community/ Students | ~150 per academic year |
| Industry | ~10 |
| End-users | ~100 |

Table 5 Estimate number of people reached by CERTH

#### 2.5.1.2 Foreseen participation

| Type of activity | Planned jour-nal/Conference | Content of activity | Estimated date | Place/country |
|---|---|---|---|---|
| Publica-tion | IEEE Transactions on Industrial Elec-tronics | Designing a miniatur-ised embedded sys-tem for energy har-vesting and storage | First quarter of 2020 | NA |
| Publica-tion | Undefined yet | Data fusion on em-bedded systems | First quarter of 2020 | NA |
| Confer-ence | Undefined yet | Indoor localization | First quarter of 2020 | Undefined yet |

Table 6 Foreseen dissemination activities by CERTH

### 2.5.2 IMEC participation

IMEC is a research institute with a significant business network, which develops technology for quick adaptation in the industry. That made possible to use a business model in which the dissemination strategy focuses only on potential customers. The focus of dissemination is on building intimate business relationships with individual companies. That is why in Table 7, most of the activities are individually adjusted towards preselected companies rather than widely announced during public events.


Figure 7 Dissemination of AMANDA to IMEC visitors

#### 2.5.2.1 Attended participation

| Type of activity | Title | Date | Place/Country |
|---|---|---|---|
| Posters | Project poster at entrance to the IMEC building | 01.09.2019-01.01.2022 | HTC 31 Eindhoven /Netherlands |
| Presentation to potential customer | Pitch to Japanese gas sensor manufacturer | Apr 2019 | confidential |
| Presentation to potential customer | Pitch to Belgium based Window production manufacturer | Feb 2019 | confidential |
| Presentation to potential customer | Discussion with technological campus management | Jun 2019 | confidential |
| Presentation to potential customer | Pitch to Dutch research institute | Mar 2019 | confidential |
| Presentation to potential customer | Pitch to Japanese car component manufacturer | Sep 2019 | confidential |
| Presentation to potential customer | Pitches to two Chinese component manufacturers | Oct 2019 | confidential |
| Presentation to potential customer | Pitch to United States sensor manufacturer | Sep 2019 | confidential |
| Presentation to potential customer | Pitch to United States utility company | Nov 2019 | confidential |
| Presentation to potential customer | Pitch to French utility company | Aug 2019 | confidential |

Table 7 Dissemination activities by IMEC

| Type of audience | Size of audience [humans] |
|---|---|
| Visitors of IMEC | ~500 |
| Potential customers | 20 |

Table 8 Estimate number of people reached by IMEC

#### 2.5.2.2 Foreseen participation

| Type of activity | Title | Date | Place/Country |
|---|---|---|---|
| Sensors and Actuators B: Chemical | Undefined yet | Undefined yet | NP |
| Eurosensors conference | Undefined yet | Undefined yet | Undefined yet |
| Presentations to potential customers | NP | NP | NP |

Table 9 Foreseen dissemination activities by IMEC

### 2.5.3 Lightricity participation

Lightricity has taken part to various tradeshows and exhibition events in 2019, all based in European countries, where the company has promoted the AMANDA project alongside its technology. The targeted audience was mostly industrials and stakeholders (see Table 10) that could understand the benefits of the AMANDA platform while providing useful feedback for the different use cases that are still under development. These interactions have been key to ensure that the AMANDA system specifications are in line with industry's expectation. These events were also an opportunity to monitor any competitor's activity. No AMANDA demonstrators were available to show at this stage, however the objectives of the AMANDA project were clearly explained and adapted to the type of audience. The latest AMANDA dissemination material (flyers, roll-ups) will be shared in the upcoming events described in Table 12. Lightricity has also updated its company website to provide a description of the AMANDA project and consortium, and directly linked the webpage to the AMANDA official site.

#### 2.5.3.1 Attended participation

| Type of activity | Title | Date | Place/Country |
|---|---|---|---|
| Tradeshow/conference | SIDO2019 | April 2019 | Lyon/France |
| Tradeshow/conference | IDTechEx2019 | April 2019 | Berlin/Germany |
| Tradeshow/conference | ISWC | October 2019 | Barcelona/Spain |
| Website update | Lightricity website page on AMANDA with link to AMANDA project website | Mid-2019 | UK |
| Preparation of publication | Joint IEEE publication with CERTH, EPEAS and Ilika | September 2019-now | - |

Table 10 Dissemination activities by Lightricity

| Type of audience | Size of audience |
|---|---|
| Scientific community (mostly academic) | ~100 |
| Industry (potential customers) | ~300 |
| Others (mixed audience) | ~200 |

Table 11 Estimate number of people reached by Lightricity

#### 2.5.3.2 Foreseen participation

| Type of activity | Title | Date | Place/Country |
|---|---|---|---|
| Tradeshow/conference | Embedded World | February 2020 | Nuremberg/Germany |
| Tradeshow | Rail Live! | March 2020 | Madrid/Spain |
| Presentation/conference | SSI | March-April 2020 | Brussels/Belgium |
| Tradeshow/conference | Sido2020 | May 2020 | Lyon/France |
| Tradeshow/conference | IDTechEx2020 | May 2020 | Berlin/Germany |
| Tradeshow/conference | ISWC | October 2020 | Barcelona/Spain |
| Tradeshow/conference | Electronica | November 2020 | Munich/Germany |

Table 12 Foreseen dissemination activities by Lightricity

### 2.5.4 EPEAS participation

#### 2.5.4.1 Attended participation

EPEAS dissemination activities are focused on the PMIC and image sensor and related to global requirements of IoT devices energy harvesting requirements. In its activities, EPEAS will:

- Exhibit and explain EPEAS products at tradeshows
- Add an online web page section for Amanda
- Present the AMANDA project at events with flyer
- Introduce the project to customer when relevant
- Promote the partners based on customer requirements

When attending tradeshows, along with its living demonstrations, EPEAS shows some customer's product (*with their agreement*) and an AMANDA flyer (*see below*). EPEAS demonstrators are some sensors (T°/humidity, luxmeter and accelerometer) with a radio communication (SigFox, LoRa, Beacon BLE) supplied by energy harvesting. The aim is to show people EPEAS products working and integrated in IoT-like devices.


Figure 8 EPEAS on the AMANDA web site

#### 2.5.4.2 Attended participation

EPEAS has attended the Sigfox connect event. A presentation on the AMANDA project was available on the EPEAS booth.


Figure 9 EPEAS attended participation

| Type of Activity | Title | Date | Place/Country |
|---|---|---|---|
| SigFox eco-system and exhibition | SigFox Connect | Nov 20-21 (2019) | Singapore / APAC |

Table 13 Dissemination activities by EPEAS

#### 2.5.4.3 Foreseen participation

EPEAS has planned to participate at the following trade shows during 2020:


Figure 10 EPEAS foreseen participation

| Type of activity | Title | Date | Place/country |
|---|---|---|---|
| Trade show exhibition | CES | Jan 7-10 (2020) | Las Vegas / USA |
| LoRa eco-system and exhibition | Thinks Networks | Jan 30-31 (2020) | Amsterdam / EMEA |
| Trade show exhibition | Embedded World | Feb 25-27 (2020) | Nuremberg / EMEA |
| Trade show exhibition | Hannover Messe | Apr 20-24 (2020) | Hannover / EMEA |
| Trade show exhibition | SIDO | May 12-13 (2020) | Lyon / EMEA |
| Trade show exhibition | Electronica | Nov 10-13 (2020) | Munich / EMEA |

Table 14 Foreseen dissemination activities by EPEAS

| Type of audience | Size of audience |
|---|---|
| Thinks Networks “LoRaWAN” – LoRa eco-system | 2000 visitors and all majors actors of the LoRa eco-system |
| CES – Consumer Electronic Show | 180.000 attendees expected and more than 4500 exhibitors |
| Embedded World – Embedded electronic specialists | 1100 exhibitors and 30.000 visitors |
| SiDO – Robotics, IoT and AI experts | 11.000 visitors, 500 exhibitors and 80 conferences |
| Electronica – Components, systems, applications, solutions | 80.000 visitors expected and 3000 exhibitors |

Table 15 Estimate number of people reached by EPEAS

### 2.5.5 ZHAW participation

ZHAW is involved in teaching, research and dissemination of technologies. Some of the insights derived from this project will flow in teaching activities, helping to enhance courses and providing appropriate examples at different levels. Furthermore, demonstrators derived directly or indirectly from the project will be used for open doors activities geared at promoting technologies and bringing them nearer to the masses. Dissemination will also be done by attending conferences, contributing in specialised journals and popular science journals.

#### 2.5.5.1 Attended participation

| Type of activity | Title | Date | Place/country |
|---|---|---|---|
| Keynote at IoT Techtalk (Amanda presented as example) | IoT Everywhere? Harvesting energy to power future IoT nodes | 28 May 2018 | Lausanne/Switzerland |
| Conference paper ICCE Berlin 2019 | 'AMANDA: An Autonomous Self-Powered Miniaturized Smart Sensing Embedded System | September 2019 | Berlin |

Table 16 Dissemination activities by ZHAW

| Type of audience | Size of audience |
|---|---|
| Students (Internet of Things class) | approx. 20 per semester |
| Scientific Community (Conferences) | In the order of hundreds |

Table 17 Estimate number of people reached by ZHAW

#### 2.5.5.2 Foreseen participation

| Type of activity | Title | Date | Place/country |
|---|---|---|---|
| Conference paper in preparation. | In preparation (about EH and indoor positioning) | Early 2020 | Winterthur, CH |
| Teaching IoT (Amanda as example in course) | IoT class | Feb – May 2020 | Wintertur, Zuerich Switzerland |
| Open doors activity for public. Amanda poster | Nacht der Technik | July 2020 | Winterthur/Switzerland |

Table 18 Foreseen dissemination activities by ZHAW

### 2.5.6 Ilika participation

Ilika has primarily participated in the dissemination of AMANDA by way of public speaking at the events shown below. Ilika has designed the PowerPoint slide below to promote AMANDA:

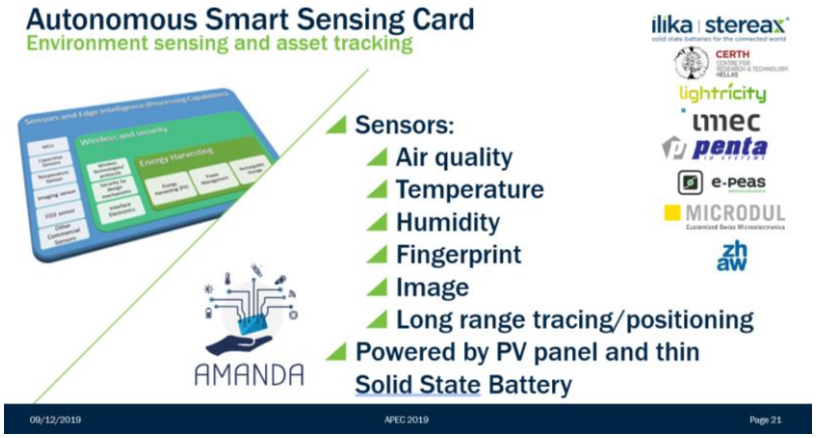



Figure 11 Mentioned AMANDA on the Ilika website

Ilika has also mentioned AMANDA on their website: https://www.ilika.com/latest-news/autonomous-sensor-deployment-project

#### 2.5.6.1 Attended participation

| Type of activity | Title | Date | Place/country |
|---|---|---|---|
| Event | HiTEN | 8 July 2019 | Oxford, UK |
| Event | APEC | 17 March 2019 | Anaheim, TX |

Table 19 Dissemination activities by Ilika

| Type of audience | Size of audience |
|---|---|
| Scientific audience | 50+ |
| Industry | 50+ |

Table 20 Estimate number of people reached by Ilika

#### 2.5.6.2 Foreseen participation

| Type of activity | Title | Date | Place/country |
|---|---|---|---|
| Event | EnerHarv | June 2020 (tbc) | USA (tbc) |
| Event | Sensors Expo | 22 Jen 2020 | San Diego, USA |

Table 21 Foreseen dissemination activities by Ilika

### 2.5.7 Microdul participation

Microdul dissemination activities concentrate on the MS8892 capacitive sensor and MS1089 temperature sensor. Traditionally these activities include:

- Exhibiting at trade shows
- Cold acquisition by Microdul and by its representatives in Germany and Italy
- Information on Web-Site, Datasheets, Application Notes and Flyers
- Posts on social media such as Linked-In
- Presentations at events
- Promotion via memberships with Swiss MedTech, SwissT.net, IEEE, IGExact and microTec Südwest

#### 2.5.7.1 Attended participation

Prototypes of the capacitive sensor will be first available in 2020. Therefore activities to promote the sensors will start in 2020. Two abstracts detailed below have been drafted and submitted in 2019 for presentations in 2020:

- An abstract entitled “CMOS mixed signal array technology and what it can do for you” has been submitted for inclusion at the microTec Südwest Cluster Conference in Freiburg, March 2020. It is intended to have one slide that mentions the AMANDA project.
- An abstract entitled “Ultra-Low-Power Capacitive Sensors based on Microdul’s own semi-custom, mixed-signal array technology” has been submitted for inclusion at the IDTechEx trade show / conference in Berlin, May 2020. It is intended to have some slides to feature the new capacitive sensor and mention the AMANDA project.

#### 2.5.7.2 Foreseen participation

Microdul has planned exhibitions at the following trade shows in 2020:


Figure 12 Microdul foreseen participation

| Type of activity | Title | Date | Place/country |
|---|---|---|---|
| Trade show exhibition | MD&M West | February 11-13 | CA, USA |
| microTec Südwest Cluster Conference | “CMOS mixed signal array technology and what it can do for you” | March 18-19 | Freiburg, Germany |
| Trade show exhibition | Medtec Live | March 31 – April 2 | Nürnberg, Germany |
| Trade show exhibition | IDTechEx | May 13-14 | Berlin, Germany |
| Conference presentation at IDTechEx | “Ultra-Low-Power Capacitive Sensors based on Microdul’s own semi-custom, mixed-signal array technology” | May 13-14 | Berlin Germany |

| | | | |
|---|---|---|---|
| Trade show exhibition | Sensor & Test | June 23-25 | Nürnberg, Germany |
| Trade show exhibition | Sindex 2020 | September 22-24 | Bern, Switzerland |
| Trade show exhibition | Electronica | November 10-13 | Munich, Germany |
| Trade show exhibition | Compamed | November 16-18 | Düsseldorf, Germany |

Table 22 Foreseen dissemination activities by Microdul

At trade shows and for membership of Swiss MedTech, SwissT.net, IEEE, IGExact and microTec SüdWest, dissemination is supported by:

- Demonstrators for the capacitive sensors and temperature sensors
- Flyers
- One-to-one contact with potential customers

Cold acquisition and posts on social media will be supported with:

- A presentation containing a market pitch to highlight applications and product advantages
- Videos are planned towards the end of 2020 to illustrate product advantages
- Web-Site information including datasheets, application notes and flyers
- Sample availability at the end of 2020

| Type of audience | Size of audience |
|---|---|
| MD&M West: Medical companies | 20.000 professionals expected |
| microTec Cluster Conference Südwest: | Over 20 companies expected |
| MedTech Live: Medical companies | 4.600 visitors expected |
| IDTechEx: Emerging technologies, mixed audience of academics and industry. | 2.600 visitors expected |
| Sensor & Test: Industrial companies | 6.900 visitors expected |
| Sindex: Industrial companies | 13.000 visitors expected |
| Electronica: Consumer and Industrial companies. | 80.000 visitors expected |
| Compamed: Medical companies | >100.000 visitors expected |

Table 23 Estimate number of visitors to trade shows where Microdul exhibits

### 2.5.8 PENTA participation

PENTA is heavily involved in public traffic and Smart Cities solution. Dissemination activities lie on the promotion of products. Each of the PENTA activities, emphasises involvement in the AMANDA project, promoting the project's goals and project partners.


Figure 13 Mentioned AMANDA project on PENTA web site-www.penta.hr

#### 2.5.8.1 Attended participation

| Type of activity | Title | Date | Place/country |
|---|---|---|---|
| Tech Talk in Croatian chamber of economy | IoT technology in smart cities | June 19 | Pula, Croatia |
| Presentation in ministry of Culture of the Republic of Montenegro | National Cultural Card | September 03-06 | Cetinje, Montenegro |
| Tech talk in Croatian Chamber of Economy | Energy Efficiency in Construction, Innovation and Environmental Protection | October 3 | Pula, Croatia |
| Conference | Urban traffic at a standstill | October 10-11 | Zagreb, Croatia |

Table 24 Dissemination activities by PENTA

| Type of audience | Size of audience |
|---|---|
| Mixed audience of academics, students | ~150 |
| Mixed audience | ~100 |
| Tech talk - mixed audience of academics and industry, students and scientific community | ~300 |

Table 25 Estimate number of people reached by PENTA

#### 2.5.8.2 Foreseen participation


Figure 14 Penta foreseen participation

| Type of activity | Title | Date | Place/country |
|---|---|---|---|
| Trade show exhibition | InnoTrans | 22.9. - 25.9.2020 | Berlin, Germany |
| Trade show exhibition | IT-trans | 3.3. - 5.3.2020 | Karlsruhe |
| Trade show exhibition | Smart City Expo World Congress | 11.2020 | Barcelona, Spain |
| Trade show exhibition | INTERTRAFFIC | 21.4. - 24.4.2020 | Amsterdam, Nederland |

Table 26 Foreseen dissemination activities by PENTA

### 2.5.9 Tech Talk on 19 June 2019

| Key figures | | | | |
|---|---|---|---|---|
| Name of event | IoT Technology in Smart Cities | | | |
| Date | 19 June 2019 | | | |
| Place | Pula, Croatia | | | |
| Type of Activity | | Organisation of conference paper reviews, poster presentation | | Participation to a conference |
| | | Organisation of a workshop | | Participation to a workshop |
| | | Press release | X | Participation to an event other than a conference or workshop |
| | | Exhibition | | Brokerage event |
| | | Flyers training | | Pitch event |
| | | Social media | | Trade fair |
| | | Web-site | | Participation in activities organised jointly with other H2020 project(s) |
| | | Communication campaign (e.g radio, TV)) | | Other |
| Type of Audience | X | Scientific Community (higher education, Research) | | Medias |
| | X | Industry | | Investor |
| | | Civil Society | X | Customers |
| | | General Public | | Other |
| | X | Policy markers | | |
| Countries addressed | Croatia | | | |
| Partners | PENTA | | | |

#### 2.5.9.1 Scope of the event

In cooperation with the Croatian Chamber of Economy - Pula County Chamber, PENTA and Faculty of Informatics Pula, organized a Tech Talk with the main topic of IoT technology. The event was held on 19 June 2019, at the premises of the Croatian Chamber of Economy - County Chamber of Pula. This event was intended for the transport, industry and IT sector, public city companies, and local and regional self-government. Representatives of the Faculty of Informatics in Pula presented the IoT research of the Faculty, while representatives of PENTA d.o.o. talked about the AMANDA project and the application of IoT technology in smart cities.

#### 2.5.9.2 Description of the participation

Oskar Vujičić (PENTA) at the very beginning of the event presented the Consortium of the AMANDA project. In particular, the objectives of the AMANDA project, the technical challenges ahead of the project and the possible further application of the Autonomous Smart Sensing Card (ASSC) were discussed. After the conference, a very constructive discussion was held about the technical features and possibilities of using the ASSC.
Audience reached
Scientific community, transport, industry and IT sector, public city companies, local and regional self-government

#### 2.5.9.3 Feedback and follow-up

AMANDA project raised the interest in a very positive way. Participants consider Autonomous Smart Sensing Card (ASSC) a unique solution, and were interested in information on further progress of the project, especially in the development and evaluation of the presented sensors, as well as on possible use cases.

#### 2.5.9.4 Key figures

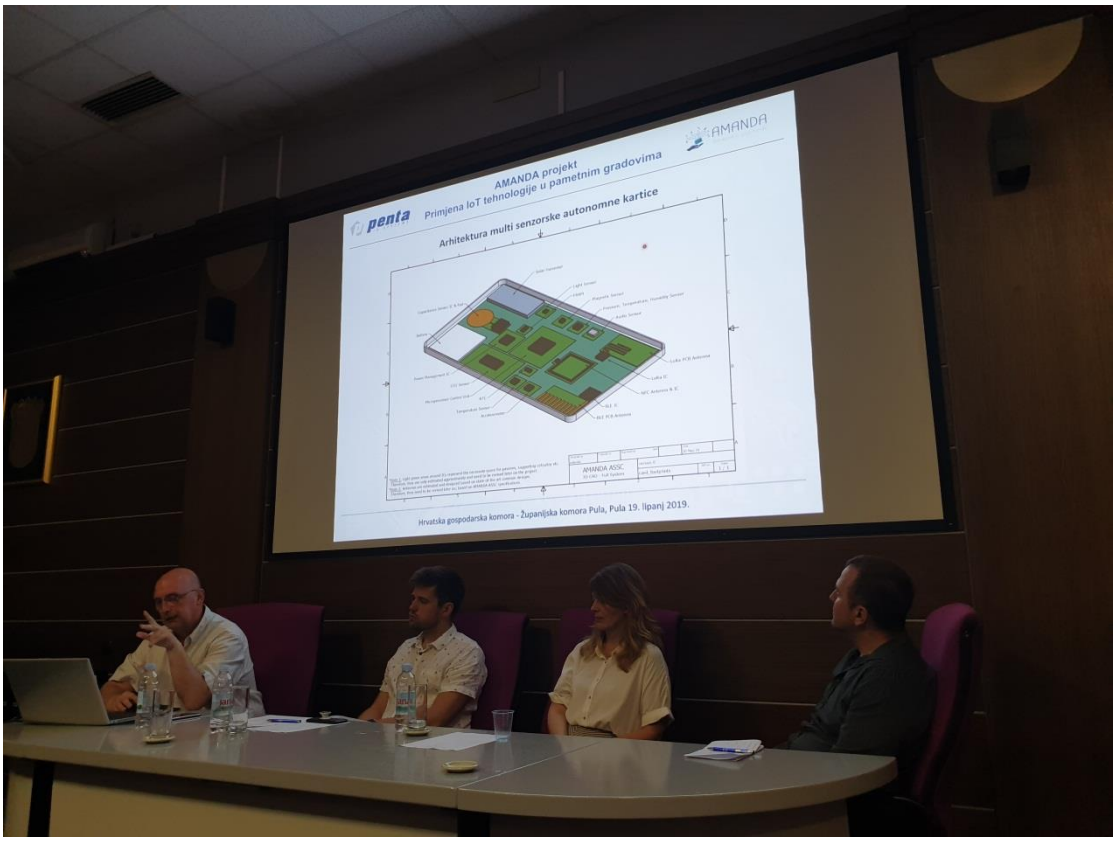
40 participants from Croatia, Slovenia

#### 2.5.9.5 Useful links

https://hgk.hr/zupanijska-komora-pula/u-hgk-zk-pula-odrzano-predavanje-o-iot-tehnologiji
https://amanda-project.eu/news-events/130-amanda-project-presentation-in-croatian-chamber-of-economy

#### 2.5.9.6 Photos


AMANDA projekt
Primjena IoT tehnologije u pametnim gradovima
AMANDA
The world in your hands
penta
Hrvatska gospodarska komora
Županijska komora Pula
Pula, 19. lipanj 2019.
Oskar Vujičić, dip.ing.


penta
AMANDA projekt
Primjena IoT tehnologije u pametnim gradovima
AMANDA
Arhitektura multi senzorske autonomne kartice
Hrvatska gospodarska komora - Županijska komora Pula, Pula 19. lipanj 2019.

### 2.5.10 Conference on 9 July 2019

| **Key figures** | | | | |
|---|---|---|---|---|
| **Name of event** | **HiTEN 19** | | | |
| **Date** | **9th July 2019** | | | |
| **Place** | **Oxford UK** | | | |
| **Type of Activity** | | Organisation of conference paper reviews, poster presentation | **x** | Participation to a conference |
| | | Organisation of a workshop | | Participation to a workshop |
| | | Press release | | Participation to an event other than a conference or workshop (WEBINAR) |
| | | Exhibition | | Brokerage event |
| | | Flyers training | | Pitch event |
| | | Social media | | Trade fair |
| | | Web-site | | Participation in activities organised jointly with other H2020 project(s) |
| | | Communication campaign (e.g radio, TV)) | | Other |
| **Type of Audience** | **X** | Scientific Community (higher education, Research) | | Medias |
| | **x** | Industry | | Investor |
| | | Civil Society | | Customers |
| | | General Public | | Other |
| | | Policy markers | | |
| **Countries addressed** | UK | | | |
| **Partners** | ILIKA | | | |

#### 2.5.10.1 Scope of the event

What the organisers say: "The objective of the HiTEN Conference is to have a unique forum that brings together researchers and practitioners in academia and industry from all over the world. All styles of practical high temperature electronics design and implementation approaches are encouraged, along with a variety of high temperature application areas. Today the main semiconductor focus of HITEN is silicon and silicon on insulator (SOI). Although, HITEN is not simply a semiconductor focused network. HITEN provides a conduit for the exchange and dissemination of information on all aspects of high temperature electronics. It is a global network with users, suppliers, developers and fundamental researchers dealing in all aspects of High Temperature Electronics.

#### 2.5.10.2 Description of the participation

Denis Pasero, Product Commercialisation manager gave an oral presentation “Miniature Power Sources for High Temperature Industrial Sensors"

#### 2.5.10.3 Audience reached

Scientific community , Industry

#### 2.5.10.4 Feedback and follow-up

2 good contacts, below

#### 2.5.10.5 Business opportunities identified

2 good business opportunity with a developer of sensors for the automotive industry and a developer of miniature medical devices.

#### 2.5.10.6 Key figures

~50 people attended

#### 2.5.10.7 Photos

### 2.5.11 Presentation on 3 September 2019

| **Key figures** | | | | |
|---|---|---|---|---|
| **Name of event** | **National Cultural Card** | | | |
| **Date** | **3-6 September 2019** | | | |
| **Place** | **Cetinje, Montenegro** | | | |
| **Type of Activity** | | Organisation of conference paper reviews, poster presentation | | Participation to a conference |
| | | Organisation of a workshop | | Participation to a workshop |
| | | Press release | **X** | Participation to an event other than a conference or workshop |
| | | Exhibition | | Brokerage event |
| | | Flyers training | | Pitch event |
| | | Social media | | Trade fair |
| | | Web-site | | Participation in activities organised jointly with other H2020 project(s) |
| | | Communication campaign (e.g radio, TV)) | | Other |
| **Type of Audience** | | Scientific Community (higher education, Research) | | Medias |
| | **X** | Industry | | Investor |
| | | Civil Society | **X** | Customers |
| | | General Public | | Other |
| | **X** | Policy markers | | |
| **Countries addressed** | Croatia, Montenegro | | | |
| **Partners** | PENTA | | | |

#### 2.5.11.1 Scope of the event

"National Cultural Card" presentation was held at the premises of Ministry of Culture Montenegro and the scope of this event was to present the overall content of two projects (National Cultural Card, AMANDA), as well as defined tasks and primary objectives.

#### 2.5.11.2 Description of the participation

Darko Maljić (PENTA) presented the National Cultural Card project goals, the hardware foreseen by the project and the application content of the project. Oskar Vujičić (PENTA) presented the AMANDA project, used technologies, objectives and potential use cases. One of the main goals of this event was to explain features of AMANDA ASSC and the potential of connecting with the National Cultural Card project, which is a part of the Cetinje Smart City project.

#### 2.5.11.3 Audience reached

Industry, public city companies, local and state government

#### 2.5.11.4 Feedback and follow-up

Participants reported their interests in a response form after the presentation. Contact data (e-mail addresses) of those present who were interested in receiving project communication material were collected.

#### 2.5.11.5 Business opportunities identified

Potential connection with the Cetinje Smart City project was identified. Cooperation depends on the further development of the AMANDA project.

#### 2.5.11.6 Key figures

30 participants from Croatia, Montenegro

#### 2.5.11.7 Useful links

https://amanda-project.eu/news-events/137-talk

#### 2.5.11.8 Photos


AMANDA projekt
Primjena IoT tehnologije u pametnim gradovima
AMANDA
The world in your hands
Hrvatska gospodarska komora
Županijska komora Pula
Pula, 19. lipanj 2019.
Oskar Vujičić, dip.ing.

### 2.5.12 Conference on 8 September 2019

| **Key figures** | | | | |
|---|---|---|---|---|
| **Name of event** | **IEEE 9th ICCE conference 2019** | | | |
| **Date** | **8-11 September, 2019** | | | |
| **Place** | **Berlin, Germany** | | | |
| **Type of Activity** | | Organisation of conference paper reviews, poster presentation | **x** | Participation to a conference |
| | | Organisation of a workshop | | Participation to a workshop |
| | | Press release | | Participation to an event other than a conference or workshop |
| | | Exhibition | | Brokerage event |
| | | Flyers training | | Pitch event |
| | | Social media | | Trade fair |
| | | Web-site | | Participation in activities organised jointly with other H2020 project(s) |
| | | Communication campaign (e.g radio, TV)) | | Other |
| **Type of Audience** | **x** | Scientific Community (higher education, Research) | | Medias |
| | | Industry | | Investor |
| | | Civil Society | | Customers |
| | **x** | General Public | | Other |
| | | Policy markers | | |
| **Countries addressed** | Europe, America | | | |
| **Partners** | CERTH | | | |

#### 2.5.12.1 Scope of the event

The 9th International Conference on Consumer Electronics (ICCE-Berlin) 2019 was organized as part of the world's leading trade show for consumer electronics and home appliances, IFA Berlin. Dr. Charis Kouzinopoulos from CERTH, presented the conference paper titled "AMANDA: An Autonomous Self-Powered Miniaturized Smart Sensing Embedded System" that gives an overview of the AMANDA project

#### 2.5.12.2 Audience reached

Scientific Community

#### 2.5.12.3 Conference paper

*https://ieeexplore.ieee.org/document/8966223*

#### 2.5.12.4 Key figures

50 participants from all over Europe and America

#### 2.5.12.5 Useful links

http://www.icce-berlin.org/
https://amanda-project.eu/documents/public-deliverables/send/6-public-deliverables/11-amanda-an-autonomous-self-powered-miniaturized-smart-sensing-embedded-system-2
https://edas.info/p25749

#### 2.5.12.6 Photos


AMANDA
the world in your hands
ANANDA: An Autonomous Self-Powered Miniaturized Smart Sensing Embedded System
Dr. Chanz Kouzinopoulos
ITI/CERTH
amanda-project.eu
ICCE

### 2.5.13 Workshop on 26 September 2019

| **Key figures** | | | | |
|---|---|---|---|---|
| **Name of event** | **SURFAS 19** | | | |
| **Date** | **26th September 2019** | | | |
| **Place** | **Guildford UK** | | | |
| **Type of Activity** | | Organisation of conference paper reviews, poster presentation | | Participation to a conference |
| | | Organisation of a workshop | **x** | Participation to a workshop |
| | | Press release | | Participation to an event other than a conference or workshop (WEBINAR) |
| | | Exhibition | | Brokerage event |
| | | Flyers training | | Pitch event |
| | | Social media | | Trade fair |
| | | Web-site | | Participation in activities organised jointly with other H2020 project(s) |
| | | Communication campaign (e.g radio, TV)) | | Other |
| **Type of Audience** | **X** | Scientific Community (higher education, Research) | | Medias |
| | | Industry | | Investor |
| | | Civil Society | | Customers |
| | | General Public | | Other |
| | | Policy markers | | |
| **Countries addressed** | UK | | | |
| **Partners** | ILIKA | | | |

#### 2.5.13.1 Scope of the event

Workshop is originating from EU funded Interreg cross-channel collaboration programme "SURFAS" with France, where we target development of RF energy harvesters for low power , small device applications

#### 2.5.13.2 Description of the participation

Denis Pasero, Product Commercialisation manager gave an oral presentation Powering Autonomous Sensors for Industry 4.0 and MedTech with Solid State Batteries "

#### 2.5.13.3 Audience reached

Scientific community

#### 2.5.13.4 Feedback and follow-up

Excellent feedback about feasibility of batteries combined with Energy Harvesting, here vibration

#### 2.5.13.5 Business opportunities identified

2 good contacts with University of Guildford and ESIGELEC Technopôle du Madrillet, France

#### 2.5.13.6 Key figures

~20 people attended the webinar

#### 2.5.13.7 Photos

### 2.5.14 Conference on 3 October 2019

| **Key figures** | | | | |
|---|---|---|---|---|
| **Name of event** | **Energy Efficiency in Construction, Innovation and Environmental Protection** | | | |
| **Date** | **3 October 2019** | | | |
| **Place** | **Pula, Croatia** | | | |
| **Type of Activity** | | Organisation of conference paper reviews, poster presentation | **X** | Participation to a conference |
| | | Organisation of a workshop | | Participation to a workshop |
| | | Press release | | Participation to an event other than a conference or workshop |
| | | Exhibition | | Brokerage event |
| | | Flyers training | | Pitch event |
| | | Social media | | Trade fair |
| | | Web-site | | Participation in activities organised jointly with other H2020 project(s) |
| | | Communication campaign (e.g radio, TV)) | | Other |
| **Type of Audience** | **X** | Scientific Community (higher education, Research) | | Medias |
| | **X** | Industry | | Investor |
| | | Civil Society | **X** | Customers |
| | | General Public | | Other |
| | **X** | Policy markers | | |
| **Countries addressed** | Croatia | | | |
| **Partners** | PENTA | | | |

#### 2.5.14.1 Scope of the event

"Energy Efficiency in Construction, Innovation and Environmental Protection" conference was organized by the Croatian Chamber of Economy – Pula County Chamber. The conference presented innovations and solutions provided by Croatian manufacturers and service providers in the field of energy efficiency and environmental protection. Representatives of the companies had presentations about public sector buildings after energy renovation, emphasizing that many solutions related to consumption control as well as air quality control, smart lighting, smart parking, etc. are applicable not only in public but also in other sectors. The scope of the event was IoT (Internet of Things) in the context of energy efficiency.

#### 2.5.14.2 Description of the participation

Autonomous self-powered multi-sensor card and application in building automation was the topic of Oskar Vujičić (PENTA) presentation. In his speech, Oskar Vujičić presented all the partners in the project, the main goals and expectations, and especially commented on the application of the AMANDA ASSC in building automation.

#### 2.5.14.3 Audience reached

Scientific community, industry, public city companies, local and regional self-government

#### 2.5.14.4 Feedback and follow-up

Even though the discussion after PENTA`s presentation was mainly focused on the building automation direction, an open discussion and relevant brainstorming followed for almost all AMANDA use cases. After the conference, several companies were informed about the AMANDA project and expressed interest in receiving the project communication material.

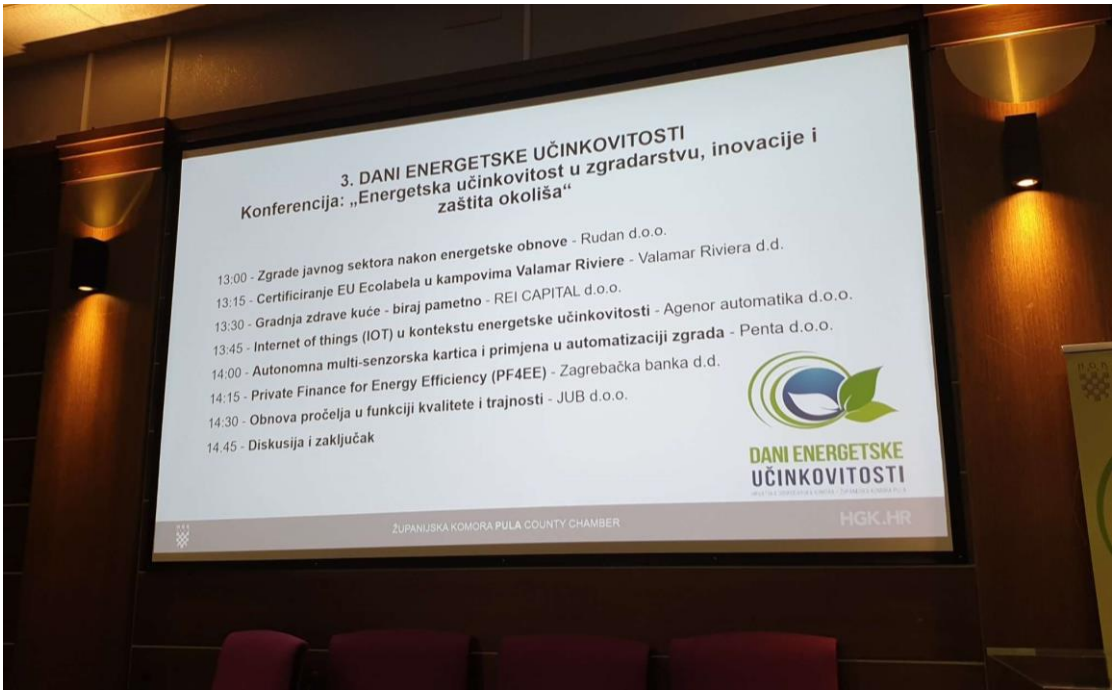
#### 2.5.14.5 Key figures

50 participants from Croatia, Slovenia

#### 2.5.14.6 Useful links

https://www.hgk.hr/zupanijska-komora-pula/u-hgk-zk-pula-odrzana-konferencija-energetska-ucinkovitost-u-zgradarstvu-inovacije-i-zastita-okolisa-najava
http://www.regionalexpress.hr/site/more/konferencija-energetska-uinkovitost-u-zgradarstvu-inovacije-i-zatita-okolia

#### 2.5.14.7 Photos


3. DANI ENERGETSKE UČINKOVITOSTI
Konferencija: „Energetska učinkovitost u zgradarstvu, inovacije i zaštita okoliša“
13:00 - Zgrade javnog sektora nakon energetske obnove - Rudan d.o.o.
13:15 - Certificiranje EU Ecolabela u kampovima Valamar Riviere - Valamar Riviera d.d.
13:30 - Gradnja zdrave kuće - biraj pametno - REI CAPITAL d.o.o.
13:45 - Internet of things (IOT) u kontekstu energetske učinkovitosti - Agenor automatika d.o.o.
14:00 - Autonomna multi-senzorska kartica i primjena u automatizaciji zgrada - Penta d.o.o.
14:15 - Private Finance for Energy Efficiency (PF4EE) - Zagrebačka banka d.d.
14:30 - Obnova pročelja u funkciji kvalitete i trajnosti - JUB d.o.o.
14:45 - Diskusija i zaključak
DANI ENERGETSKE UČINKOVITOSTI
ŽUPANIJSKA KOMORA PULA COUNTY CHAMBER
HGK.HR


penta Autonomna multisenzorska kartica i primjena u automatizaciji zgrada
AMANDA projekt
AutonoMous self powered miniAturized iNtelligent sensor for environmental sensing anD asset tracking in smArt IoT environments
imec
e-peas
lightricity
ilika
penta
Hrvatska gospodarska komora - Županijska komora Pula, Pula 03. listopad 2019.
HRVATSKA GOSPODARSKA KOMORA
ŽUPANIJSKA KOMORA PULA


IOT

### 2.5.15 Conference on 10 October 2019

| **Key figures** | | | | |
|---|---|---|---|---|
| **Name of event** | **Urban Traffic at a Standstill Conference** | | | |
| **Date** | **10-11 October 2019** | | | |
| **Place** | **Zagreb, Croatia** | | | |
| **Type of Activity** | | Organisation of conference paper reviews, poster presentation | **X** | Participation to a conference |
| | | Organisation of a workshop | | Participation to a workshop |
| | | Press release | | Participation to an event other than a conference or workshop |
| | | Exhibition | | Brokerage event |
| | | Flyers training | | Pitch event |
| | | Social media | | Trade fair |
| | | Web-site | | Participation in activities organised jointly with other H2020 project(s) |
| | | Communication campaign (e.g radio, TV)) | | Other |
| **Type of Audience** | **X** | Scientific Community (higher education, Research) | | Medias |
| | **X** | Industry | | Investor |
| | | Civil Society | | Customers |
| | **X** | General Public | | Other |
| | | Policy markers | | |
| **Countries addressed** | Croatia | | | |
| **Partners** | PENTA | | | |

#### 2.5.15.1 Scope of the event

The Conference "Urban Traffic at a Standstill" organized by the Faculty of Transport and Traffic Sciences was held in the period of 10-11 October 2019 with a purpose of presenting the results and achievements of the project SPARK Sense, funded by the European Regional Development Fund. The holder of the SPARK Sense project is PENTA, while the project partner is Faculty of Transport and Traffic Sciences from Zagreb. On the first day of the conference, the AMANDA project, consortium, primary goals, as well as the expected results, were presented.

#### 2.5.15.2 Description of the participation

The Faculty of Transport and Traffic Sciences from Zagreb, a scientific research institution and a partner in this project, presented the results of the conducted research into the impact of the system on the environment. As part of the research, the faculty created an environmental impact study and a citizen satisfaction study with a new standstill traffic solution. CEO of PENTA, Mladen Pamic, took the opportunity to present AMANDA project, features and possibilities of using the innovative ASSC card in smart parking systems, emphasizing that it can be integrated into the realized SPARK Sense project.

#### 2.5.15.3 Audience reached

Scientific community, industry and IT sector, general public

#### 2.5.15.4 Feedback and follow-up

The high interest of all present was expressed, which was reflected in the affirmative and substantive discussion. As AMANDA project was in the first year of implementation, participants were interested in monitoring the progress of the project, so they were given information about the official website, profiles on social networks (LinkedIn, Twitter), as well as contacts of PENTA as a project partner.

#### 2.5.15.5 Business opportunities identified

Instead of using sensors with a battery life of up to 5 years that are attached to the asphalt surface, in SPARK Sense parking solution it is possible to use the AMANDA ASSC by installing it in parking barriers located in parking spaces.

#### 2.5.15.6 Key figures

70 persons joined the two-day conference

#### 2.5.15.7 Useful links

https://www.penta.hr/en/news/spark-sense-project-presentation-faculty-transport-and-traffic-sciences-zagreb-traffic-rest-conference/

#### 2.5.15.8 Photos



## 2.6 Scientific papers and other publication

| No. | Title | Leading author | Title of the journal or series | Publisher | Year of publication |
|---|---|---|---|---|---|
| **ATTENDED** | | | | | |
| 1. | AMANDA: An Autonomous Self-Powered Miniaturized | CERTH | 2019 IEEE International Conference of Consumer Electronics | IEEE | 2019 |

| | | | | | |
|---|---|---|---|---|---|
| | Smart Sensing Embedded System | | | | |
| **FORESEEN** | | | | | |
| 1. | Designing a miniaturised embedded system for energy harvesting and storage | CERTH | - | - | 2020 (Estimated) |
| 2. | Data fusion on embedded systems | CERTH | - | - | 2020 (Estimated) |
| 3. | Indoor Localization | ZHAW | - | - | 2020 (Estimated) |

Table 27 Interaction with other EU funded project

# 3 Advisory board

The Advisory board helps keeping AMANDA directly oriented towards the societal and economic needs for energy autonomous measurement devices by evaluating AMANDA outputs and advising the consortium about the market needs. Its main role is to provide with expertise, outside the consortium's members, leading to augmentation of knowledge and strategic thinking. Furthermore, it will review selected reports of the project related to use cases, standardization, business models, etc.

The Advisory Board members are permanent for the project duration, except if they wish to voluntarily leave the Board. The Advisory Board is comprised of experts from scientific community. All Board's members have wide recognition in their respective fields at different backgrounds and areas of expertise, including needs/requirements of the market, technological trends and standards. This Group will meet at least once per annum to monitor the project achievements and to help and advice the consortium about the market's needs in order to enhance project's impact. The members of the Advisory Board are summarised in Table 28 below.

| Title | Name | University | Department |
|---|---|---|---|
| Professor | Vedran Bilas | University of Zagreb | Electronic Systems and Information Processing |
| Associate Professor | Ioannis Papaefstathiou | Aristotle University of Thessaloniki | Electronic and Computer Engineering |
| Professor | Des Gibson | University of the West of Scotland | Institute of Thin Films, Sensors & Imaging School of Engineering & Computing |

Table 28 Advisory Board Members

# 4 Conclusions and future activities

The **Deliverable D7.4 - Dissemination and Communication with Relevant Activities Reports v1** provided an overview of the dissemination, communication and other activities carried out during the M1-M12 period of the AMANDA project. The main objective is to keep the interested parties engaged with the project and its results. The project partners participated in various events such as conferences, tradeshows and presentations. Great importance is attached to the presences of the project on social networks. The partners have successfully started building a network of contacts interested in the goals of the AMANDA project. The Table 1 List of  shows the aims pursued in **Deliverable D7.3 - Dissemination and Communication Plan v1.** Many of these goals are achieved, such as:

- The first project newsletter and the Poster are issued
- The AMANDA project website is up-to-date well maintained
- The Deliverables provided are submitted and published within the deadline
- The news related to the project and partner activities is regularly posted on social networks
- The partners have participated in many events where they actively promoted the AMANDA project

Work on the project video has started and it is anticipated that it will be completed during M13 of the project. The previous period was intense in defining the architecture and design of the ASSC as well as exploring the best technical solutions that would meet the stated goals. It is the main reason why some of the goals have not fully achieved. In the coming period, the partners will emphasise their activities in connection with other EU projects, participation in international conferences and publication of papers. All subsequent actions will lead to a significant improvement in the visibility of the AMANDA project.