



beAWARE

Enhancing decision support and management services in extreme weather
climate events

700475

D8.3

Dissemination and Communication strategy and activities report – v3

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Abstract

This document describes the activities taken for the formation of the Dissemination and Communication strategy and the activities that have been chosen and formulated in order to support its execution, as well as the target groups that it will address.



Moreover, the document reports on the final status of the communication and dissemination plan on M36. Since this is the 3rd version of the deliverable “D8.1: Dissemination and Communication strategy and activities report”, some content may be the same as D8.1 and D8.2.

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Author list

Organization	Name	Contact Information
HRT	Iosif Vourvachis	projects@hrt.org.gr
HRT	Efstratios Manos	Efmanos1@yahoo.gr
HRT	Miltiadis Meliadis	m.meliadis@hrt.org.gr
HRT	Odysseas Spyroglou	ospyroglou@gmail.com
HRT	Ioanna-Eleni Voudouri	projects@hrt.org.gr
CERTH	Gerasimos Antzoulatos	gantzoulatos@iti.gr
CERTH	Anastasios Karakostas	akarakos@iti.gr

Executive Summary

This deliverable is the 3rd and final version of the deliverable “D8.1: Dissemination and Communication strategy and activities report” and it presents the dissemination and communication strategy along with the activity report of all the relevant activities that have been taken during the lifetime of the project.

In the first section of the deliverable, the target groups of the Communication and Dissemination plan are defined and a description of each target group is offered.

Following, in the second section, an analysis of the Communication and Dissemination plan is presented with an overview of its objectives and the means used in order to achieve these goals. A summary of the activities that have been carried out until M36 is mentioned, since these activities are mentioned in detail either in the next section of the deliverable or in other deliverables (D8.5, D8.6, etc.). Furthermore, the lessons learnt throughout the lifetime of the project are presented.

Moreover, in the third section of the deliverable a report of all activities that have been carried out by all partners is offered. The report contains information regarding:

- Meetings with Stakeholders and User Groups
- Synergies with related projects and initiatives
- Participation in Events, Conferences and Workshops
- Individual Partners’ activities carried out and Future Plans

Finally, the Key Performance Indicators that were defined in the revised version of D8.1 are analyzed and examined and their final status is reported against their target value.

Abbreviations and Acronyms

AAWA	Alto Adriatico Water Authority
C&D	Communication and Dissemination
CERTH	Center for Research and Technology Hellas
CISE	Centro Integral de Seguridad y Emergencias (Emergencies and Security Comprehensive Center (in Valencia city))
CO	Citizen Observatory
CPO	Civil Protection Organization
DEMA	Danish Emergency Management Agency
DoA	Description of Actions
DSS	Decision Support System
FBBR	Frederikssund-Halsnaes Fire & Rescue Service
FMI	Finnish Meteorological Institute
HRT	Hellenic Rescue Team
IBM	IBM Israel – Science and Technology Ltd
IOSB	Fraunhofer Institute of Optronics, System, Technologies and Image Exploitation
MSIL	Motorola Solutions Israel Ltd
NoI	Network of Interest
PLV	Valencia Local Police
PSAP	Public Safety Access Point
UG	User Groups

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1 Introduction

This document presents the overall Dissemination and Communication Strategy of the beAWARE project, outlining the ways in which the project partners disseminate the outcomes of the project and communicate with different audiences and public. This strategy is, therefore, the core of all the activities implemented towards relevant stakeholders and interested parties. The main activities used in order to carry out the Dissemination and Communication Strategy are:

- Meeting with stakeholders
- Synergies with related project and initiatives
- Participation in events and conferences
- Production of dissemination material (newsletters, flyers, brochures, etc.)
- Use of social media

Dissemination, networking and awareness-raising are critical to ensure the success of the project and a real impact towards its target groups. Consequently, it was essential to plan efficient and timely activities focused on these aspects, in parallel to the core activities of the project.

The WP8 in the beAWARE project Description of Action (DoA) specified a strategic guidance for the communication and dissemination of the various components of the project, its activities, results, outputs and outcomes. Its purpose was to support the overall goal of beAWARE which was to provide support in all phases of an emergency incident. More specifically, beAWARE promotes the management of weather-related events through forecasting and early warning while at the same time supporting the cooperation between first responders and authorities. In order to do that, beAWARE platform offers an aggregated analysis of all incoming data in order to present what is happening now and what will come next, in the context of situational awareness. The purpose of the Communication and Dissemination Strategy is to:

- Outline the objectives of beAWARE dissemination, communication activities and how they support the overall project goals
- Clarify the links with stakeholder engagement activities and set the basis for an aligned communication with all the different actors
- Define the main target groups and the group-specific dissemination objectives.
- Identify communication channels and tools
- Describe the beAWARE visual identity and branding

Objectives of the beAWARE Communication and Dissemination

As stated in the beAWARE Description of Action, the ambition of the beAWARE communication and dissemination strategy was to maximise the impact of the research and development actions through communication channels with interested target groups and to define the specific contents and forms of communication and dissemination material of the project, taking into account the various target groups and their specific background in terms of knowledge, context, motivation and potential uptake of various media.

Based on this, the specific objectives were:

- To raise awareness, disseminate and promote the project's activities and results with online and off-line tools, networking, events, media and the press. This specific objective is strengthened by a strong collaboration and coordination with other work packages.
- To achieve high visibility within the scientific community and with political actors at various levels to support a wide deployment of results.
- To share knowledge, lessons learned and strategies in order to support its transfer to end users, other related organizations and authorities.

2 Target Groups

As it has been pointed out in the previous deliverable D8.1 & D8.2, the outcomes of beAWARE project should be seen as an improvement of existing knowledge, skills and lessons learned in the area of civil preparedness planning of the EU-countries on one hand, and the application of the latest technical and IT achievements on the other hand. This is due to the fact that the results of beAWARE project, with their unique integrative characteristics, can be used in all stages of the civil preparedness planning, before, during and after a large-scale incident such as forest fires, heatwaves and floods. beAWARE aims to support all participants in the civil protection mechanism by offering tools that combine and analyze data and provide information which is vital in the management of events that are related to extreme weather conditions, such as early warning and crisis classification. This can contribute to reducing the risk of these incidents as well as the negative impact on people and their health, property, environment, and society as a whole including critical infrastructure functions.

It should be noted that many EU-countries base their policy planning on the principle of sector responsibility (for instance, Denmark), meaning that all authorities are responsible for the preparedness in their own area (sector) in case of major accidents and crises. Furthermore, these authorities focus on the use of platforms on various areas like preparedness planning, crisis management, prevention, education and training, exercises and evaluation in order to increase their efficiency in crisis management.

Moreover, the need for a permanent harmonizing of the preparedness planning at all levels of a society should also be taken into account, as well as the fact that this area is in the scientific, academic, and citizens focus.

Based on the above-mentioned, the target groups of the beAWARE system and services, as already presented in D8.1 and revised based on the comments of the reviewers in the revised version of D8.1, can be classified as:

1. Governmental Authorities
2. End Users (first responders, decision makers, civil-society organizations)
3. Technology providers and Industries
4. General Public (citizens)
5. Scientific community.
6. Policy-makers/government representatives

2.1 Governmental Authorities

Today, emergency management policies and practices are defined by local and regional governments of each European country or region with the support of the national government and the civil protection authorities including the Police, the Fire Brigade and Emergency

Medical Services. beAWARE has developed a system to provide early warnings and decision support allowing decision makers to effectively prevent and manage climate disasters, such as floods, fires and heatwaves. The adoption of such an emergency system as a support tool may depend on the approval of these authorities, so it was highly relevant for the consortium to establish communication and collaboration channels with these stakeholders such as municipalities, prefectures, local or regional governments, ministries (regional and central), authorities or offices of those regional governments and ultimately the central government.

2.2 End Users

First Responder organisations and Civil Protection authorities can benefit in a great extent from technological tools such these developed by beAWARE, that will aid them from the initial phase, through the response phase, to the final phase of an event with multiple technologies and systems that will greatly advance their capability to improve the management of natural disasters. Furthermore, Civil Protection organizations can benefit from beAWARE platform in organizing and tracking the rescue teams and volunteers participating in operations from the beginning until the end of a crisis.

2.3 Technology providers and Industries

beAWARE promotes innovation across many disciplines. The integration of data and the accessibility through multiple types of devices proposed by beAWARE could be applicable to other emergency management systems and could be useful for insurance companies and construction companies that usually purchase data to make predictions on the onset of natural disasters that potentially affect their assets. In addition, current flood and fire emergency system distributors already providing solutions to the emergency management units (e.g. flood barriers) could have an interest in extending their range of products. In fact, they could offer a solution that may be unique in the market and could provide significant benefits to end users (e.g. Civil Protections). Therefore, also in this context, beAWARE can respond to a market need, making an impact on market growth of the addressed sector, thanks to an overall improvement in market positioning, an increase in revenues and a reduction of costs for damage restoration and recovery.

2.4 General Public (Citizens)

Citizens in affected areas are one of the main sources of information through the gathering of crowd-sourced and social media data. In addition, they are in need of up-to-date and quick information on disasters. Therefore, it is important to establish an efficient communication flow with them.

2.5 Scientific community

beAWARE platform integrates competences across multiple sectors, such as: environmental sciences, including meteorology, hydrology, various computer technologies or Global Navigation Satellite Systems including Global Positioning System. This combined expertise together with the technological developments generated in the project can be of interest to scientific communities.

2.6 Policy-makers/government representatives

As requested by the reviewers, the policy makers and government representatives were identified as a target group as well and were included in the revised version of D8.1.

Special attention was given to formulate a tailor-made strategy to approach policy-makers, government representatives and other officials in international and national bodies that shape and decide policies, programs and priorities, in order to present beAWARE platform's capabilities and functionalities.

3 Communication and Dissemination Strategy

This section examines the overall dissemination and communication strategy of beAWARE project that assisted in determining all communication and dissemination actions during the project's lifetime, in order to ensure an increase of the project efforts and results including the preparation of events where the project was presented.

Specifically, the C&D plan explains:

- *What?*
This represents what should be disseminated in the framework of the project. These can be summarized in the following:
 - Public deliverables of the project
 - Dissemination material (both online and offline) produced during the lifetime of the project with information about the project and its results
 - All activities implemented and executed within the project that provide dissemination added value, such as the execution of the pilots, the preparation of workshops, etc.
 - The tools and the system that have been developed
- *Who?*
The “who”, represents the audience to whom the project addresses its activities and who will use its results. More specifically, these are the target groups, as they are defined in section 2 of the deliverable.
- *Why?*
These are the objectives of the communication and dissemination plan.
- *How?*
The “How?” represents the methodology, the tools (both offline and online) and media used in order to support and fulfil the objectives.
- *When?*
This mainly represents the time schedule of the C&D activities.

The overall communication and dissemination objectives of the project were identified as follows:

- Increase the level of awareness of the beAWARE results within the industrial community.
- Share the technical and scientific results of beAWARE project with the scientific community.

- Gather feedback from our Network of Interest (see D8.7), experts, scientists, researchers, first responders, crisis management authorities and industry.
- Promote research and receive useful inputs from other scientists and communities.
- Create a strong base for future partnerships, collaborations and information exchange between relevant communities.
- Keep open and constant communication with other relevant stakeholders and Horizon 2020 projects.
- Communicate and disseminate the platform functionalities and the outcomes of the pilot.
- Explore further exploitation prospects of the results of the project after its ending.

Furthermore, according to the DoA, the dissemination strategy of beAWARE was divided in three periods presented below.

Table 1. The three periods of the dissemination strategy

PERIOD	OBJECTIVE	APPROACH
1	AWARENESS, IDENTIFY TARGET AUDIENCE & NEEDS, RECRUIT USERS	<ul style="list-style-type: none"> - Website development - Publication of support material, mass media. - Scientific papers to relevant journals and conferences. - Synergies with similar EU or national projects.
2	ACTIVE USER GROUPS, TRAINING OF PILOT USERS	<ul style="list-style-type: none"> - Organization of Focus Group workshops - Pilot-Users training through info days - Enrich website and all mass media channels
3	FIND POTENTIAL CUSTOMERS, PROMOTE PRODUCT/SERVICE	<ul style="list-style-type: none"> - Organization of a pan-European Workshop - Focus Group with the UG - Enrich website and all mass media channels - Scientific papers to relevant journals and conferences

The C&D strategy of beAWARE is both internal and external. Each of the two approaches is discussed in turn below.

For internal purposes, this C&D strategy provides members of the beAWARE consortium with an effective and efficient blueprint to follow in disseminating the work and results of beAWARE. Internal C&D will be conducted via email, periodic teleconferences and face-to-face meetings (around other workshops). Shared documents (including project documents, case study data and reports and publications) are stored in a wiki page, giving all partners access at all times. The project website has both internal and external audiences in mind.

The external objectives of the beAWARE C&D strategy are (from the Description of Actions):

- To develop a multi-dimensional communication and dissemination plan and promote the project's developed services and outcomes in order to increase awareness among project's stakeholders and the general public.
- To provide viable business models that will lead to the long-term sustainability of the proposed approach involving all actors of the value chain the beAWARE dissemination strategy provides the basis for engaging with stakeholders through a stakeholder identification, analysis and interaction process.
- To plan and verify the exploitation potential, during and beyond the end of the project progress.

As the project has now completed its lifecycle, the consortium has more to show and present to stakeholders and all relevant audiences. The platform is finalized. Therefore the level of the maturity of some tools is very high, if not completed. All three pilots have been carried out and have offered increased visibility to the project. A variety of dissemination material has been produced and further-on the project is in a position to demonstrate its outcomes.

Moreover, the consortium used all activities and pilots to ensure the support of its C&D plan. The goal was to enhance the interaction with the target groups and also to increase the project's visibility.

To support this goal, as well as the overall objectives of the C&D plan, the consortium used the following means of engagement and interaction with the public and stakeholders:

- *Social Media and other media for the general public*

Focused social media accounts, which have been created since the beginning of the project, were used to disseminate the project's activities, results and outcomes as well as to support the general scope of the project and inform the public in regards to extreme weather-related events. Accounts have been created on Facebook and Twitter for promoting interaction to the general public and on LinkedIn to focus on a more professional and academic audience.

Moreover, a YouTube channel has been established to promote the videos that were produced during the project's lifecycle.

In addition to the widespread of beAWARE's social media accounts, particular emphasis was given to the enrollment approach and communication approach of relevant individuals, including invitations to our Network of Interest, as well as to specific groups related to crisis management and civil protection.

Furthermore, other, more traditional media have been used during the last year of the project, such as press releases, brochures, leaflets, posters and flyers to promote the C&D plan.

- *Partners' network*

The C&D plan was not only based on the use of social media but also allowed for a direct link with relevant stakeholders. To achieve this, all partners have promoted the project, its goals and results through their own network. The goal was to broaden the project network and use existing channels that partners already had in place.

- *Network of Interest*

In addition to what is mentioned in the previous paragraph, a focused Network of Interested (NoI) was established to support the direct liaison with relevant stakeholders and to engage them in the project activities. During the last part of the project the consortium aimed to enhance NoI's engagement by involving its members not only in the dissemination of the results but also in the exploitation research procedure for the developed system and tools by communicating directly with some members of the NoI and also by involving them in the execution of the pilots. This was done through meetings that took place in order to present the system and request feedback and more importantly, through participation in the project's pilots. Therefore, members of the NoI had the opportunity to interact with the system and provide feedback and evaluation. More details on the NoI and its members are offered in deliverables D8.7, D8.8 and D8.9.

- *Events*

Participation in various events, such as conferences and workshops, was also used to support the C&D plan's execution. These events enabled the consortium to promote the project to wider and diverse audiences. In addition, they offered the opportunity to share with the scientific community the knowledge gained and the technological results of the project, as well as the ground for knowledge exchange and publications.

- *Pilots*

A different and more or less "stand-alone" category of events are the three (3) pilots that took place during the lifetime of the project. Among other purposes they served, these pilots were used to increase the visibility of the project in various ways. First of all, they were used for the demonstration of the system in real life situations to stakeholders and potential end users. Moreover, they served as a "marketing tool" to attract an audience in the project. Specifically, during the implementation of the 3 pilots and the development of the beAWARE platform and the development of its

tools, the project had more to present and produced attractive dissemination material of active use of the system. These were images and especially videos of the system's use that were produced during the pilot execution and were disseminated through the project's social media and also were used in the online presentations (*see below*) that took place. In addition, as the pilots relied on the use of the system in specific scenarios formulated by actual use cases, they provided clear storylines in which the system was tested and demonstrated. As a result, stakeholders and potential end users were given the opportunity to understand better its use in a real-life condition along with its capabilities and its technological advances.

- *Online Presentations (Webinars)*

A webinar is a powerful and widely used tool for communication. It serves as a platform where multiple individuals achieve remote connection in order to be engaged with a presenter and a public audience through closed discussion groups. The webinar platform offers the possibility of panel question & answer sessions, software demonstrations and even large-scale conferencing.

The main benefit of an online presentation is the live and open approach and the more intimate, closed and recorded meeting style it provides. Online presentations offer the opportunity to the partners to interact directly with the Network of Interest; even after the broadcast is over recordings of each webinar will be available online to be watched whenever desired. Another benefit of using Online presentations is that enables the utilization of polls, chats, videos, and presentation of PowerPoint slides. As such, the more interactive the webinar is arranged, the greater insight into the necessities and priorities of the target audience can provide.

Two (2) online presentations (one in Greek and one in English) have taken place in January 2018 where the main subject was the presentation of the results of the heatwave pilot that took place in Thessaloniki on 19-21 November 2018. Another two online presentations (one in Italian and one in English) took place in order to present the results of the flood pilot that was carried out in Vicenza in March 2019. Subsequently, another 1 online presentation took place in order to present the results of the flood pilot that was carried out in Valencia in November 2019. All online presentations were addressed to members of the NoI list and various stakeholders that were invited to participate through an open social media invitation. The last two online presentations are also presented in section 4.6.

4 Communication and Dissemination Activities Report

This section presents all the activities that took place from the beginning of the project related to the dissemination and communication of the project and the beAWARE platform.

4.1 Meetings with Stakeholders and User Groups

To record and report all the meetings that beAWARE partners had with stakeholders and user groups, a corresponding table (Table 2) was created and uploaded to the wiki. The purpose of these meetings was to:

- Disseminate the project and its goals
- To communicate the project's results
- Attempt to involve the stakeholders as much as possible. Nevertheless, the level of involvement is two-fold. First, on the stakeholder's desired involvement and second on what the consortium will permit in each case

Table 2. Updated List of Meetings with Stakeholders

	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
1.	Informal meeting with Greek fire Brigade	Feb 2017	Thessaloniki, GR	Stakeholder	HRT	Presentation of the project and securing their involvement and participation in the user requirements and pilot implementation.
2.	Informal meeting with ex-director of the Region of Central Macedonia Civil Protection Directorate	Feb 2017	Thessaloniki, GR	Stakeholder	HRT	Presentation of the project and securing their involvement and participation in the user requirements and pilot implementation.
3.	Informal meeting with ex-director of the Hellenic National Meteorological Service	Feb 2017	Thessaloniki, GR	Stakeholder	HRT	Presentation of the project and securing their involvement and participation in the user requirements

	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
4.	Meeting with Head and deputy head of the Directorate of Civil Protection of the Region of Central Macedonia	July 2017	Thessaloniki, GR	Stakeholder	HRT	Presentation of the project and securing their involvement and participation in the user requirements and pilots
5.	Stakeholder meeting	Oct 2017	Vicenza/Venice, IT	Stakeholder	AAWA	Presentation of the project and securing their involvement and participation in the user requirements and pilot implementation.
6.	Meeting with Head and deputy head of Civil Protection of Municipality of Thessaloniki	July 2017	Thessaloniki, GR	Stakeholder	HRT	Presentation of the project and securing their involvement and participation in the user requirements and pilots
7.	Meeting with Head of directorate of Social protection and public health of Municipality of Thessaloniki	July 2016	Thessaloniki, GR	Stakeholder	HRT	Presentation of the project and securing their involvement and participation in the user requirements and pilots
8.	Meeting with the priority coordinator at the Council of Baltic See Secretary in Stockholm	September 2017	Stockholm Sweden	Stakeholder	FBBR	Presentation of the project and securing their interest project
9.	Presentation of the project for	October 2017	Athens Greece	Stakeholder	FBBR	Presentation of the project and securing

	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
	the Lead partner in HEIMDALL project					their interest project
10.	Presentation of the project for New Zealand Fire Service	November 2017	Christchurch New Zealand	Stakeholder	FBBR	Presentation of the project and securing their interest project
11.	Informal meeting	Apr 19, 2017	Vicenza, IT	Civil Protection Municipality of Vicenza	AAWA	Introductory meeting on the project to set the flow of data necessary for the implementation of the activities.
12.	1st Workshop	May 10-11, 2017	Venice, IT	BeAWARE partner, Vicenza Municipality	AAWA	Definition of User Cases and Initial User Requirement
13.	Info day	May/June 2018	Vicenza, IT	Vicenza Municipality	AAWA	Inform the stakeholders of the improvements done in beAWARE; definition of the final User requirements. Start planning of the first exercitation (Feb. 2019)
14.	FBBR the 6 municipalities	Jul. Aug., Sep., Oct., Nov., Dec. 2018	FBBR	Municipality Authorities	FBBR	Knowledge sharing. Informing stakeholders about beAWARE system and its capabilities
15.	Danish Emergency Management Agency (DEMA)	Sep. 2018	FBBR	Authority at national level	FBBR	Knowledge sharing. DEMA is the national authority and cooperate very closely with all FRSS in DK

	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
16.	Danish preparedness Organization	Oct. 2018	FBBR	Regional organizations	FBBR	Knowledge sharing. Informing stakeholders about beAWARE system and its capabilities
17.	End-users	Sep. 2018	FBBR Municipalities	Municipality level	FBBR	Informing stakeholders about beAWARE system and its capabilities
18.	Meeting with new mayor of Vicenza Municipality	6 th of November 2018	Vicenza, IT	Vicenza Municipality	AAWA	Inform the new mayor of Vicenza about the activities planned in the municipality of the BEAWARE project
19.	Informal meeting with delegates of the Vicenza Municipality, AIM Multy Utility, “Alta Pianura Veneta” Land reclamation consortium	26 th of November 2018	Vicenza, IT	Vicenza Municipality, AIM Multy Utility, “Alta Pianura Veneta” Land reclamation consortium	AAWA, CERTH, IBM	Survey in view of the pilot, planning of the pilot, inspect the available equipment, discuss about the current emergency management protocol and how it can benefit from the beAWARE platform.
20.	Meeting	14 th of December 2018	Vicenza, IT	Vicenza Municipality	AAWA	Inform the stakeholders of the improvements done in beAWARE; definition of the final User requirements. Start planning of the first exercitation (March 2019)

	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
21.	Cartographic section of the Engineering Department (UPV)	7 th November 2018	Local Police Headquarters	Security researchers and Local Police.	PLV	Dissemination of the beAWARE project and collaboration with the firefighter's use case.
22.	Polytechnic University of Valencia (UPV)	20 th December 2018	Local Police Headquarters	Security researchers and Local Police.	PLV	Dissemination of the beAWARE project.
23.	Valencia Firefighters	21 st December 2018	Firefighters Headquarters	Practitioners	PLV	Internal meeting in order to prepare the firefighter's use case.
24.	Meetings	31 th of January 2019, 7 th , 11 th and 13 th of february	Vicenza, IT	Vicenza Municipality	AAWA	planning of the flood pilor (March 2019)
25.	Training info days	25 th - 26 th February, 4 th , 5 th , 6 th of March 2019	Vicenza, IT	Civil Protection, Municipality of Vicenza, citizen	AAWA with support of the other beAWARE partners	Information and training for the planning of the exercitation (March. 2019)
26.	Press Conference	25 th of February 2019	Vicenza, IT	Municipality of Vicenza, Veneto Region, press	AAWA	Present the project and the flood pilot
27.	Hans Springer - Department Civil Protection and Crisis Management	12 th March 2019	IOSB Premises	Ministerium für Inneres, Digitalisierung und Migration Baden-Württemberg (Ministry of	IOSB	Overall presentation of the beAWARE project. Especially, demonstration of technical possibilities with

	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
				Interior of the German state Baden-Württemberg)		the Knowledge Base and FROST. Discussion about how the beAWARE technologies could benefit the needs of the Crisis Management in Baden-Württemberg and integration in existing systems
28.	Presentation inside the provincial civil protection committee	20th of March 2019	Vicenza, IT	Municipality of Vicenza, local and provincial Civil Protection, Region, Local and regional authorities	AAWA	Present the outcomes of the pilot
29.	info day	18th of October 2019	Vicenza and Padova, IT	Professional Orders of the Engineers of the provinces of Padova and Vicenza	AAWA	Inform the Engineers about the outcomes of beAWARE and present the technologies
30.	info day	25th of October 2019	Mestre, IT	Professional Order of the Engineers of the province of Venezia	AAWA	Inform the Engineers about the outcomes of beAWARE and present the technologies
31.	Meeting with the Local Police of San Sebastián	January, 2019	San Sebastián (Spain)	Local Police of San Sebastián	PLV	Information exchange among these organizations regarding the participation on different European projects.

	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
32.	Bilateral meeting with Mossos d'Esquadra and Local Police from Hospitalet de Llobregat.	February, 2019	Hospitalet de Llobregat (Barcelona, Spain)	Mossos d'Esquadra	PLV	In February 20 th staff from PLV presented beAWARE to other LEAs from Mossos de Esquadra (Catalonia's Regional Police Force) and the local Police of Hospitalet de Llobregat
33.	CEPOL	June 2019	Budapest (Hungary)	Law Enforcement	PLV	CEPOL facilitates cooperation and knowledge sharing among law enforcement officials of the EU Member States
34.	Bilateral meeting with Czech Republic representatives	16 July 2019	Valencia (Spain)	Member of the Department of Civil Protection and from the Department of Security Engineering	PLV	Exchange of best practices by both organizations, as well as dissemination of the beAWARE project and other H2020 projects
35.	Valencia Firefighters and Local Police.	17 September 2019	PLV Headquarters	Practitioners	PLV	Dashboard training for end-users during the pilot
36.	Valencia Firefighters and Local Police, Civil Guards.	30th October	PLV Headquarters	Practitioners	PLV	Mobile app and dashboard training for end-users during the pilot.
37.	General Secretariat of Civil Protection	08th November 2019	General Secretariat of Civil Protection in Athens	Practitioners	HRT	Presentation of the project and discussions regarding the tools of the system

	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
38.	Fire department HQ	09th November 2019	Fire department HQ in Athens	Practitioners	HRT	Presentation of the project and discussions regarding the tools of the system
39.	I.E.S. el Saler students and teacher	11th November 2019	I.E.S. el Saler	Practitioners	PLV	Final mobile app training for students and their teacher
40.	Valencia Firefighters and Local Police. Civil Guards.	12th November 2019	PLV Headquarters	Practitioners	PLV	Final mobile app and dashboard training for the players

4.2 Synergies with related projects and initiatives

For beAWARE members of the consortium it is important to have contacts with other EU related programs and organizations active in this space.

In that framework, beAWARE has already organised a common workshop with iREACT and ANYWHERE projects during ISCRAM 2018, namely the 1st International Workshop on Intelligent Crisis Management Technologies for climate events – ICMT. Following, the successful organization of this workshop, beAWARE, in coordination with iREACT and IN-PREP projects organized the subsequent 2nd ICMT workshop in ISCRAM 2019 on May 2019, with a focus on individual-centric emergency management systems. Finally, CERTH the lead partner of beAWARE, along with representatives from iREACT and ANYWHERE organised a special session on ‘Science in support of EU Disaster Risk Reduction policies in the area of weather and climate extreme events’¹, in the framework of the 4th European Climate Change Adaptation conference (ECCA 2019) in Lisbon, Portugal, during 28–31 May 2019, where they had the chance to interact and present the outcomes of their projects.

Additionally, during the 2018 Security Research Event (SRE 2018) a unique opportunity for synergies with related EU projects was presented and taken. The aim of the conference, entitled “Making Europe a safer place –demonstrating the impact of EU-funded security

¹ <https://www.ecca2019.eu/science-in-support-of-eu-disaster-risk-reduction-policies-in-the-area-of-weather-and-climate-extreme-events/>

research”, was to show the strength and utility of EU-funded security -related research and innovation, and the positive impact on the daily work of security practitioners and first responders.

The beAWARE partners participated in a joint workshop on the topic of Disaster Resilient Societies² with two other EU funded projects dealing with a similar topic, iREACT and ANYWHERE where they interacted with project demonstrations to present the innovative technological security products on hand.

Moreover, beAWARE members were invited and participated as external participants in the second trial of DRIVER+ project which was conducted on October 2018 in Valabre, France, in an entirely virtual environment created by a fire simulator. The solutions presented focused on firefighters’ support, emergency medical services and the European Civil Protection Mechanism. The interaction through the participation to the trial brought in useful insights and practical solutions that adopted for the planning and execution of the 1st beAWARE pilot. Additionally, the project’s coordinator, CERTH, participated in a pilot exercisethat was carried out by DRIVER+ project in order to evaluate the performance of the project’s Test-bed and methodology in combination with legacy tools on a simulation of a large-scale forest fire in southern France, threatening nearby towns and an industrial chemical plant. The participation of beAWARE partners to this trial, apart from enhancing communication and collaboration between the two projects, led to valuable conclusions and ideas for the successful organisation of beAWARE’s pilots

Similarly, beAWARE coordinator participated as external participant in the 3rd table-top exercise of IN-PREP project in Kampen (the Netherlands) on 10 October 2019. The aim of the exercise was to evaluate the performance of the project’s Mixed Reality Preparedness Platform (MRPP), developed to provide effective decision-making and efficient resource management, in a training scenario of a flooding incident in the city of Kampen, which involved an increased discharge of the Rhine compounded by strengthening winds, putting the city of Kampen at risk of large-scale flooding. Through the participation of beAWARE partners in IN-PREP’s exercise, a communication channel was established between the two projects who shares a common mission of promoting a pan-European Crisis Management culture.

Furthermore, during beAWARE’s flood pilot that took place in Vicenza, a roadshow event was organized in parallel by WeObserve project, where a beAWARE end user and the organizer of the pilot, AAWA is also a member of the consortium. AAWA worked strongly to the organization of the first Roadshow event of WeObserve, held in Vicenza on 7th March 2019

² <https://www.sre2018.eu/disaster-resilient-societies>

in conjunction with the pilot evaluation planned inside beAWARE. The aim of such field exercise was to evaluate directly and practically how citizens are really involved in the environmental monitoring of the territory and decision makers use the social information during an emergency, i.e. tangible outcomes of COs. Its arrangement required, in a previous phase, the involvement of stakeholders by taking part to emergency and flood risk management events with Civil Protection Institutions and to conferences/public events for discussing about Citizen Science. Additionally, As public authority in charge for the flood risk management (according to the EU flood directive 200/60/eu), AAWA redacted the flood management risk plan, including non-structural measures of prevention and preparedness for the flood risk reduction. Amongst these measures, AAWA emphasized the implementation of the COs, fund by the Ministry of Environment, where beAWARE tools provide guidelines, examples and suggestion for its implementation.

Finally, across Europe there are some initiatives and ideas that are trying to be expressed and organized in a major level. Those ideas are either from citizens, or small groups, teams or even organizations. It is important to open communication channels with the people of these networks and initiatives and allow them to communicate their ideas which may provide valuable feedback for use. beAWARE partners actively participate in several initiatives. Indicatively, beAWARE's leader, CERTH is a member of EOPEN and EFAS initiatives.

Such individuals/groups or organizations will be invited to enter our Network of Interest (NoI) of beAWARE in order to contribute feedback and new ideas for further exploitation.

The following table identifies seven relevant initiatives at European level.

Table 3. Updated List of Initiatives

Title	Objective	Country	Website
Eionet	Eionet is a partnership network of the European Environment Agency (EEA) and its 39 member and cooperating countries. The EEA is responsible for developing Eionet and coordinating its activities, together with national focal points (NFPs) in the countries, based in national environment agencies or	EU	https://www.eionet.europa.eu/about/

Title	Objective	Country	Website
	environment ministries.		
EEA	The EEA aims to support sustainable development by helping to achieve significant and measurable improvement in Europe's environment, through the provision of timely, targeted, relevant and reliable information to policymaking agents and the public	EU	https://www.eea.europa.eu/about-us
ACP-EU Natural Disaster Risk Reduction Program	Pushing for the effective integration of Disaster Risk Management (DRM) into the global development agenda, and to cementing the strong links among DRM, poverty reduction, and climate change adaptation.	EU Based in Belgium	https://www.gfdrr.org/en/acp-eu
EFFIS	The European Forest Fire Information System (EFFIS) monitors forest fire activity in near-real time and in Europe, Middle East and North Africa and supports wildfire management	EU	https://emergency.copernicus.eu/ http://effis.jrc.ec.europa.eu/

Title	Objective	Country	Website
	<p>at national and regional scales.</p> <p>At the global scale, the JRC leads the development of the Group on Earth Observations (GEO) Global Initiative for the development of a Global Wildfire Information System (GWIS), supported by EU Copernicus and NASA programs.</p>		
iREACT	<p>I-REACT is the result of a three-year European H2020 Project that developed the first European-wide platform to integrate emergency management data coming from multiple sources, including that provided by citizens through social media and crowdsourcing. This way, we are able to produce information faster and allow citizens, civil protection services and policymakers to effectively prevent and/or react against disasters.</p>	EU	http://project.i-react.eu/

Title	Objective	Country	Website
ANYWHERE	<p>The principal objective of ANYWHERE is to enable society as a whole and the main civil protection agencies to respond more rapidly than today to extreme climate and weather events, and to better cope with the high social, environmental and economic impacts related to these extremes.</p> <p>The Project will establish a pan-European platform on extreme climate risks that will enable to identify, in a number of geographic regions, critical situations that could lead to loss of life and economic damages. Such early-warning should enable to improve protection measures and, in case of catastrophic situations, ameliorate the coordination of rescue operations.</p> <p>The platform will therefore serve as decision-making tool for various authorities when faced with a situation of crisis, and will provide state-of-the-art early warning systems to help exposed populations avert disaster.</p>	EU	http://anywhere-h2020.eu/

Title	Objective	Country	Website
IN-PREP	IN-PREP aims to prepare responders better – so more lives can be saved during natural disasters and crises. It will improve collaborative response planning. IN-PREP is trialling a new multi-agency training platform for civil protection agencies and first responders. It is an end-to-end mixed reality preparedness platform, and an interoperable system with dynamic scenario building. Agencies using in-prep will be able to plan, train and collaborate better than ever before	EU	https://www.in-prep.eu/
EFAS and GloFAS	<p>The European and Global Flood Awareness Systems (EFAS & GloFAS) provide complementary flood forecast information to relevant stakeholders supporting flood risk management at national, regional and global level.</p> <p>The forecasts are derived using in-situ and satellite data as well as hydro-meteorological models and aim at facilitating users with a wide range of added value</p>	EU	https://emergency.copernicus.eu/ https://www.efas.eu/ http://www.globalfloods.eu/

Title	Objective	Country	Website
	(medium-range lead time, probabilistic, river basin wide, flash flood indicators etc.) flood forecast products.		
EOPEN (Open interoperable platform for unified access and analysis of Earth Observation data)	Provides a platform targeting non-expert Earth Observation (EO) data users (non-traditional user communities), experts and the SME community that reveals and makes Copernicus data and services easy to use for Big Data applications by providing EO data analytics services, decision making and infrastructure to support the Big Data processing life-cycle allowing the chaining of value adding activities across multiple platforms. One of the EOPEN applications is the flood risk assessment and prevention.	EU	https://eopen-project.eu
WeObserve	Tackles the three key challenges that Citizens Observatories (COs) face: awareness, acceptability and sustainability. The project aims to improve the coordination between	EU	https://www.weobserve.eu/

Title	Objective	Country	Website
	existing Citizen Observatories and related regional, European and International activities. The WeObserve mission is to create a sustainable ecosystem of Citizen Observatories that can systematically address these identified challenges and help to move citizen science into the mainstream.		
CO of the Brenta-Bacchiglione river catchment	Implement a Citizen Observatory (CO) on water for the Brenta - Bacchiglione catchment, supporting the Authorities through the acquisition of useful data for the implementation of the European Flood directive. Moreover, the CO is a strategy for the involvement of the Citizen in the policy processes of environmental management, knowledge and monitoring. The project has just now started, the expected outcomes are: <ul style="list-style-type: none"> • Improvement of the current sensor network, not only by installing new traditional sensors, but also by the integration 	IT	<p>The Official web page of the CO, which will include all the information, is currently under construction.</p> <p>In the meanwhile, useful information about the CO can be found:-</p> <p>http://www.alpiorientali.it/</p> <p>https://www.cowm.eu/</p>

Title	Objective	Country	Website
	<p>of the classical monitoring network with new social and low-cost physical sensors;</p> <ul style="list-style-type: none">• increasing the accuracy and trustworthiness of the early warning systems;• Improve the emergency protocols and the time response in case of flood• Active involvement of Citizen in the decisional process, sharing of environmental data, provide simple and easy access to these data and their elaborations, increasing of the collective trust in the Institutions, spreading of best practices, promoting of eco-sustainable behaviors. <p>Th</p> <ul style="list-style-type: none">• Improve the knowledge about the territory and the hydraulic risk, increase the awareness about the vulnerability and fragility, development of behaviors aimed to the respect of the territory, development of adequate behaviors during the emergency. These outcomes lead to the final and global objective of the CO,		

Title	Objective	Country	Website
	<p>which is to increase the resilience and address the residual risk, as a non-structural measure for the hydraulic risk reduction in the Brenta – Bacchiglione UOM by affecting the exposure and vulnerability. The annual benefit, in terms of avoided damage (in case of successfully implemented CO that reaches the above mentioned target), is approximately estimated as € 137,000,000.</p>		

4.3 Participation in Events, Conferences and Workshops

Since the beginning of the beAWARE project, all the members of the consortium have participated in different events, conferences and workshops. An updated list with all participations in events and conferences is presented in the table below

Table 4. Updated List of participations in events and conferences

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
1.	SRS Security Conference Bilbao	Security and Safety International Conference	Oct 2016	Bilbao Spain	Target group security and safety companies, end users, universities.	PLV	Relevant Conference with the participation of industries, universities and end users
2.	Collaboration Police-Fire fighters in emergencies	Workshop	Feb 2017	Valencia, Spain	First responders	PLV	Workshop with the collaboration of Fire- fighters an Local Police in order to improve our action in case of fire
3.	iV&L Net (COST Action IC1307: The European Network on Integrating Vision and Language	COST ACTION	03 Feb 2017	Lisbon, Portugal	COST Members	CERTH	Presentation: “Combining Computer Vision and Language Processing for Advanced Search, Retrieval, Annotation and Description of Visual Data”
4.	The 20th European Police Congress, topic “Europe – boundless? liberty, mobility, security”	International Police Conference	22 Feb 2017	Berlin, Germany	Industry, LEAs	PLV	Relevant Conference focuses in Smart policing and new police trends and platforms for information management to be implemented in smart policing

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
5.	Community of Users on Safe, Secure and Resilient Societies	EC event	13 Mar 2017	Brussels	Security Stakeholders	CERTH	Present beAWARE to the security community and collaboration with other projects
6.	SMILE Conference	International Conference	03 Apr 2017	Long Beach, CA USA	Industry, Media, LEAs	PLV	How to integrate the use of social networks to improve communication with the citizen and how to use them can help in the management of emergencies.
7.	6th Meeting of the Community of Users on Safe, Secure and Resilient Societies		13 Apr 2017	Brussels, Belgium		CERTH	...
8.	Community of Users on Safe, Secure and Resilient Societies	EC event	15 May 2017	Brussels	Security Stakeholders	CERTH	Present beAWARE to the security community and collaboration with other projects
9.	SafeGreece 2017	Greek Civil Protection event	28-30 Jun 2017	Athens, Greece	Security Stakeholders	CERTH	Present beAWARE to the Greek security community
10	SemEval-2017 “Task 9: Abstract Meaning Representation Parsing and Generation	Workshop	Aug 2017	Canada	Computational linguistics community	UPF	§ Presentation of the UPF generator in a shared task
11	IEEE Smart World NVIDIA AI City Challenge	Workshop	5 Aug 2017	San Francisco, USA	Scientists, Researchers in	CERTH	Presentation of the CERTH systems for traffic monitoring

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
					Computer Vision domain		
12	104th Technical Committee meeting of the open Geospatial Consortium	Workshop	Sep 2017	UK	Academic researchers and practitioners	IOSB	Presentation “OGC SensorThings API in HERACLES & beAWARE - Tools, tips and tricks
13	10th Inter. Conference on Natural Language Generation (INLG 2017)	Conference	Sep 2017	Spain	Automatic Text generation Community	UPF	Presentation of the UPF generator
14	“Natural Language Generation for the Semantic Web” challenge (WebNLG 2017) @ INLG	Challenge proceedings	Sep 2017	Spain	Automatic Text generation Community	UPF	Demonstration of the potential of the UPF generator in a text generation competition
15	Shared task on Extrinsic Parser Evaluation (EPE 2017) @ Depling 2017 & IWPT 2017	Shared task proceedings	Sep 2017	Italy	Automatic text analysis community	UPF	Demonstration of the potential of the UPF generator in a text generation competition
16	The Tel Aviv Coastal Forum	Conference	05 Sep 2017	Tel Aviv Museum of Art	Authorities	MSIL	The subject of the conference was “Resilience and Sustainability in Coastal Cities”
17	Community of Users on Safe, Secure and Resilient Societies	EC event	8-12 Sep 2017	Brussels	Security Stakeholders	CERTH	Present beAWARE to the security community and collaboration with other projects

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
18	DRIVE+	Project Workshop	26 Sep 2017	Eindhoven	Security Stakeholders	CERTH	Collaboration with DRIVER+ project
19	DRIVE+	Gaps Assessment Workshop	Jan 2018	Aix-en-Provence, France	End Users	HRT	Participation in the workshop held by DRIVER+ in the same domain as beAWARE by communicating knowledge learnt through the project
20	MSF 2017 IEEE ISPRS 4th Joint Workshop on Multi-Sensor Fusion for Dynamic Scene Understanding, in conjunction with ICCV 2017, 2017	Conference	22-29 Oct 2017	Venice, Italy	Scientists, Researchers in Computer Vision domain	CERTH	Presentation of the CERTH systems for Real-Time Water and Fire Classification
21	End-to-end (E2E) data-driven NLG challenge	Challenge proceedings, to appear	Feb 2018	...	Automatic text analysis community	UPF	Demonstration of the potential of the UPF generator in a text generation competition
22	"SICUR- International Exhibition for Security, Safety and Fire."	Conference & International exhibition	20-23 Feb 2018	Madrid	Companies, associations and professional end users of safety and security.	PLV	SICUR: International Exhibition for Security, Safety and Fire usually attracting an audience of more than 40000 visitors from 76 European countries, and 1300+ companies from 21 different countries.
23	INACHUS exploitation cluster	Brokerage: presentation for target	18-19 Apr 2018	Weeze, Germany	Scientists, innovators, end users,	IOSB	Presentation of beAWARE project to end user community, discussion with representatives of

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
		group, workshop with scientists of similar projects					close projects (DRIVER+, ANYWHERE, INACHUS, Toxi-Triage, ...)
24	The Web Conference 2018	Conference	23-27 Apr 2018	Lyon, France	Scientific community	CERTH	Presentation of project results to research community
25	15th International Conference on Information Systems for Crisis Response (ISCRAM)	Conference	20-23 May 2018	Rochester NY, USA	Academic researchers and practitioners	CERTH IOSB MSIL	Presentation of project results to research community. ISCRAM is the main community event for research on crisis management systems.
26	Heimdall Project meeting	Project meeting	12-13 Jun 2018	Munich	Heimdall Project partners	FBBR	FBBR is one of the end users in this project. The aim of the introduction was to introduce the Heimdall consortium participants to the beAWARE project, its outcomes, as well as how it will be used and integrated in FBBR's other parts daily work in the preparedness planning of municipal Service and Rescue Service. Moreover, to inspire our partners to keep in mind the beAWARE project and its outcomes. Moreover, the dissemination strategy has been pointed out and the possibilities it offers.
27	CVPR Workshop (CVPRW) on the AI City Challenge, 2018	Workshop	18-22 Jun 2018	Salt Lake City, USA	Researchers in computer vision domain	CERTH	Speed estimation and abnormality detection from traffic surveillance cameras

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
28	ICMT 2018	Conference	25-26 Jun 2018	Toulouse, France	Scientific community	CERTH, IOSB	Presentation of project results to research community
29	IEEE IVMSP 2018	Conference	10-12 Jun 2018	Zagori, Aristi Village, Greece	Scientists Researchers in Computer Vision domain	CERTH	Detecting people and vehicles in danger from social media images in flood or fire emergencies
30	Days of hydrology 2018	Conference	18-20 Jun 2018	Rome, IT	Scientists, innovators, policy makers, business people	AAWA	Presentation and poster “Innovative approach for decision support and integrate management of extreme weather events”
31	Surface generation shared task and ACL 2018 Workshop	Workshop proceedings	Jul 2018	Australia	Automatic text analysis community	UPF	Assessment of the state of the art in text generation and its comparison with techniques used in beAWARE
32	ESOF (EuroScience Open Forum) 2018	OPEN FORUM	09-14 Jul 2018	Toulouse, FR	Scientists, innovators, policy makers, business people and the general public	AAWA	Presentation: An effective citizen' participation in environmental stewardship: the Vicenza' s study case“ in the session ” Sustainable cities, sustainable living“
33	The First Multilingual Surface Realisation Shared Task (SR'18): Overview and Evaluation Results	Workshop	19 Jul 2018	Melbourne, Australia	Text generation community	UPF	Demonstration of the potential of the linguistic generator used to produce multilingual reports in a text generation competition

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
34	European Meteorological Society: Annual Meeting (EMS)	Serving Society with better Weather and Climate Information	03-07 Sep 2018	Corvinus University, Budapest	Researchers	FMI	Creating value through Open Data; FMI Open Data distributed on Amazon cloud service
35	EnviroInfo 2018	Conference	05-07 Sep 2019	Garching, Germany	Scientific community	CERTH, IOSB	Presentation of project results to research community
36	“European Brokerage Event on Resilience from disaster 2019.”	Brokerage Event	24 Oct 2018	Paris- Ministry of Research and Innovation	People interested in the uptake of security research and innovation.	PLV	The event was dedicated to those interested in the uptake of security research and innovation and it was an opportunity to meet other from practitioners our discipline and from other disciplines, and to share our needs and ideas with the aim of paving the way for future cooperation.
37	MediaEval 2018	Workshop	29-31 Oct 2018	Sophia Antipolis, France	Researchers in social media analysis and computer vision domains	CERTH	A multimodal approach in estimating road passability through a flooded area using social media and satellite images
38	SafeKozani	International Confernce	Nov 2018	Kozani, Grece	End Users, Governmental Authorities, Policy makers, Scientific Community	HRT	Presentation of beAWARE project to community

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
39	Proceedings of the 11th International Conference on Natural Language Generation	Conference proceedings	05-08 Nov 2018	Netherlands	Text generation community	UPF	Presentation of two publications describing the linguistic generator used to produce multilingual reports
40	Valencia Canvia pel Clima	Workshop	06 Nov 2018	Valencia- City Council	Climate change researchers, practitioners and citizens.	PLV	Dissemination & awareness workshop about climate change.
41	TRECVID 2018	Workshop	13-15 Nov 2018	Gaithersburg, MD, USA	Scientific community	CERTH	Successful participation to the challenge
42	“Meeting with the research groups of the UPV.”	Meeting	21 Nov 2018	Polytechnic University of Valencia (UPV)	Research groups from the UPV.	PLV	The meeting was an unparalleled opportunity to share and disseminate all the projects that the European Project department is carrying out.
43	“Police Drones 2018.”	National meeting	21-22 Nov 2018	Valencia	Spanish LEAs.	PLV	The national meeting assembled over 120 participants.
44	COWM 2018	Conference	27-30 Nov 2018	Venice, Italy	Scientific community	AAWA (organizer), CERTH, IBM, IOSB, FMI	Presentation of project results to research community Presentation of drone platform
45	Security Research Event (SRE) 2018	Annually meeting	05-06 Dec 2018	Brussels	Scientists Researchers from	CERTH	Presentation of beAWARE project to community

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
					Industry and Governmental organizations as well as knowledge institutions		
46	SRE Event: “Making Europe a safer place: demonstrating the impact of EU-funded security research.”	Annual conference	05-06 Dec 2018	Brussels	Security stakeholders: researchers, industry representative, public security providers and practitioners.	PLV	The conference gathered 800 participants representing security stakeholders: researchers, industry representatives, public security providers and practitioners.
47	“Meeting with the Slovenian Ministry of Interior.”	Meeting	11 Dec 2018	Slovenia- Ministry of Internal Affairs	Policy makers.	PLV	Dissemination of the beAWARE project.
48	“PSCE- Public Service Communication Europe.”	Conference & workshop	12 Dec 2018	Bled (Slovenia)- Ministry of Internal Affairs	Emergency management authorities, Policy makers, EU space ecosystem researcher and private companies.	PLV	The PSCE Conference is an international event organized with the support of the Republic of Slovenia for Civil Protection and Disaster Relief (ACPDR).

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
49	EVAPREM Project meeting	Project meeting	13-14 Dec 2018	Tallinn	EVAPREM Project partners	FBBR	FBBR is one of the participants in this project with the aim to spread the FBBR Danish knowledge and experience in the field of Civil Protection and with focus on prevention regarding the targeted groups. FBBR gave EVAPREM participants a short introduction about the beAWARE project its outcomes as well as the FBBR dissemination strategy. Also, the aim was to inspire our partners to keep in mind the beAWARE project and its outcomes.
50	Meeting with the Ministry of Interior of Finland in Helsinki and Local Police of Lahti (Finland)	Meeting	December 2018	Helsinki and Latti	Ministry of Interior of Finland in Helsinki and Local Police of Lahti (Finland)	PLV	Dissemination of the beAWARE project through participation to an event other than a conference or workshop.
51	Infoday Regional H2020	Conference	29 March 2019	ITE (Energy Technological Institute) Paterna (Valencia), Spain	Safe, clean and efficient energy. Secure societies community.	PLV	The aim is to promote safe European societies in a context of unprecedented transformations such as growing interdependence and global threats, as well as the strengthening of the European culture of freedom and justice.
52	Joint Final Conference: SmartResilience and SAYSO	Conference	31 March 2019	Budapest, Hungary	Practitioners, developers, technology	CERTH	Poster presentation of beAWARE project.

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
					suppliers, decision-makers		
53	34th ACM SIGAPP Symposium on Applied Computing (SAC'19)	Conference proceedings	Apr 2019	Cyprus	Text generation community	UPF	Presentation of a publication describing the linguistic generator used to produce multilingual reports
54	4th International Conference on Dynamics of Disasters (DoD 2019)	Conference	July 1 to 5, 2019	Kalamata, Greece	Scientists, Researchers in Crisis Management, Machine Learning	CERTH	Presentation of project results to research community: "The Crisis Classification component to strengthen the early warning, risk assessment and decision support in extreme climate events" <i>[Submitted to Springer]</i>
55	North American Association of Computational Linguistics NAACL 2019	Conference proceedings	July- August 2019	Florence, Italy	Text analysis community	UPF	Presentation of novel metrics for the assessment of the quality of syntactic parsing technologies for downstream applications (such as ontology population), which are also of relevance to beAWARE
56	International Conference on Dependency Linguistics Depling 2019	Conference proceedings	Aug 2019	Paris, France	Text analysis community	UPF	Presentation and discussion of the advances of UPF in the area of multilingual language processing
57	IFAFRI (INTERNATIONAL FORUM TO ADVANCE FIRST RESPONDER INNOVATION) INDUSTRY DAY	International Forum	15 October 2019	Brussels, Belgium	First Responders, Industry and Governmental organization, Scientists,	CERTH	Presentation of beAWARE project under "Gap9: The ability to create actionable intelligence based on data and information from multiple sources."

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
					Researchers in Crisis Management		
58	CAP Workshop 2019	Workshop	16-18 October 2019	Justice Superior Court of Mexico City, Mexico D.F.	Law Enforcement. Managers, technical staff, media, etc., including those in government, non- governmental organizations (NGOs), and commercial organizations.	PLV	The 2019 Common Alerting Protocol (CAP) Implementation Workshop was done in Mexico City at the Justice Superior Court of Mexico City.
59	MSE2019 – Mediterranean Security Event 2019	Conference	October 29th – 31st, 2019	Heraklion, Crete, Greece	Security Stakeholders	CERTH	Presentation of project results to research community
60	MediaEval Workshop 2019	Workshop	27-29 October 2019	Sophia Antipolis, France	Multimedia Analysis community	CERTH	Presentation of a publication describing Multimedia Analysis Techniques for Flood Detection Using Images, Articles and Satellite Imagery
61	Empirical methods for Natural Language Processing Conference EMNLP 2019	Organization of shared task	Nov 2019	Hong Kong, China	Text generation community	UPF	Demonstration of the potential of the improved linguistic generator used to produce multilingual reports in a text generation competition

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
62	I-LEAD INDUSTRY DAYS 2019	Workshop	15 November 2019	Helsinki, Finland	Technology companies, law enforcement practitioners	CERTH	Presentation of beAWARE project.
63	Milipol Paris	Conference - exhibition	21-23th November. 2.019	Parc des Expositions Paris- Villepinte (France)	Data protection - Information and Communication systems / Economic and Industrial Intelligence / Systems integration / Risk analysis and management / CBRN / Civil Defence / Forensic science services / Law enforcement , etc.	PLV	An international event for homeland security that is organized under the patronage of the French Ministry of Interior. It is an official event carried out in partnership with the French National Police and Gendarmerie, Civil Defence Service, French Customs, City Police, Interpol, etc.
64	CoU (National Community of Security Users)	Conference	26th November 2019	CDTI (Center for the Industrial and Technological Development)	Public security providers.	PLV	CoU will host several conferences regarding the following topics: human factors on secure societies, terrorism, and strategic perspectives on H2020 program.

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
				Madrid (Spain).			

It needs to be specifically mentioned that a dedicated session for beAWARE-related topics (named “*Decision support in extreme weather climate event*”) was organized during the international conference COWM 2018 (Citizen Observatories for Water Management), which was held in Venice (Italy) in November 27-30 2018. The chairman of this session was the scientific manager of beAWARE.

4.4 Individual Partners’ Activities

Dissemination and communication activities reports play a vital role for the beAWARE project. Reports on all previous activities gives members of the consortium the opportunity to follow and create a complete picture on how partners are reporting about beAWARE, in conferences, papers, workshops, formal and informal meetings.

Moreover, it is well known that a good communication strategy provides the ability to broaden the knowledge around beAWARE fields, exploit the needs and also expand the Network of Interest (T8.3) with a methodological communication strategy.

A report of the activities that the partners carried out during the project lifecycle is presented below.

4.4.1 Activities Report

FBBR

The beAWARE project, as one of the EU-funded projects, has been presented on an EVAPREM meeting in December 2018. Project’s objectives, exploitation and dissemination strategies have been presented, related to the FBBR’s scope of work in the field of Disaster Risk Reduction – DRR, as well as the further steps in relation to the abovementioned strategies.

Moreover, beAWARE project’s objectives and abovementioned strategies have been presented and discussed on the HEIMDALL project meeting in Munich in June 2018, which is an EU-funded project in the field of civil protection too.

Furthermore, the beAWARE project has been shortly named and presented to the participants of the EU founded EVAPREM project on the meeting held in Tallinn, December 2018.

The beAWARE project has been shortly named and presented to the contact persons in the Balkan countries – EU candidates regarding FBBR’s dissemination strategy. The project is described in the organization website and the progress of the project is continuously being communicated to the FBBR organization and other relevant stakeholders – at a municipal level.

Finally, the beAWARE project has been mentioned on the Baltic Excellence Programme for Council of Baltic Sea States. FBBR presented the main objectives of beAWARE platform and

explained how it will be integrated in FBBR's work with the preparedness planning. The meeting was hosted by Danish Emergency Management Agency (DEMA) and held On 18th - 20th November 2019 in Tinglev in Denmark.

IOSB

Fraunhofer IOSB participated in several conferences in order to promote and disseminate the project and authored or co-authored several papers which are presented in the relative section (§4.5).

Besides research conferences, IOSB gave several talks presenting the beAWARE project, using it as a scenario use-case:

1. "Sensor data for Crisis Management", Jürgen Moßgraber, Geospatial Sensor Webs – Münster, Germany, 4.9.2018
2. "Sensornetzwerke und Software-Architekturen für das Risikomanagement", Jürgen Moßgraber, Karlsruhe, Germany, Presentation to the Environmental User Group of Baden-Württemberg INOVUM
3. "Environmental Risk Management – EU projects beAWARE and HERACLES", Jürgen Moßgraber, Fraunhofer IOSB, OGC Summit on SensorThings API – Technology and Applications on the occasion of the OGC TC PC Meetings, Stuttgart, Germany, Tuesday, 11. September 2018
4. "Hands-on SensorThings API", Hylke van der Schaaf, Internet of Things conference, Munich, Germany, 14. March 2018
5. "FROST Fancy Features", Hylke van der Schaaf, OGC Summit on SensorThings API - Technology and Applications on the occasion of the OGC TC PC Meetings Stuttgart, Germany, Tuesday, 11 Sep 2018
6. "Management and Applications of Sensor Data using Open Standards", Jürgen Moßgraber, Geospatial World Forum, 2.-4.04.2019, Amsterdam, The Netherlands

UPF

UPF participated in several conferences and organized several shared tasks with the goal to promote beAWARE and to disseminate the results obtained in the area of natural language processing related to beAWARE (cf. Section 4.5). UPF also disseminated the information on the existence, goals and achievements of beAWARE via social networks (in particular, twitter, Facebook, and Instagram). Furthermore, UPF met with two members of the ANYWHERE project Consortium, *Agència Catalana de l'Aigua* and *Kajo*, to disseminate information on beAWARE, and, in particular, on natural language technologies developed in beAWARE.

HRT

As already reported in the previous deliverable (D8.1) the Hellenic Rescue Team made some contact meetings with organizations, national, regional and local authorities to inform them

about the beAWARE project. The meetings that took place during the first period of the project were with the most relevant authorities in the city of Thessaloniki, in relation to the domain of the beAWARE system. On that purpose, HRT had meetings with:

- The Head and deputy head of the Directorate of Civil Protection of the Region of Central Macedonia, where the needs of civil protection were discussed such as the faster flow of accurate data, the ability to organize volunteers during an event and the ability to ensure faster communication between relevant authorities, from national to local. Furthermore, HRT discussed the involvement of the Civil Protection Directorate during the pilot that will take place in Thessaloniki.
- The ex-director of the Directorate of Civil Protection of the Region of Central Macedonia, where past practices of managing major events were discussed, along with potential requirements of the end users.
- The ex-director of the Hellenic National Meteorological Service, who informed HRT on data gathering and processing as well as how the alerts were distributed to authorities, organizations and to the public generally.
- The Hellenic Fire Brigade, Central Administration in the Region of Central Macedonia, where HRT was informed on how the Fire Brigade gathers information and receives alert notifications using their own PSAP, how they manage calls, their fleet and their personnel. Furthermore, they presented to HRT their new PSAP software and overall control room for Northern Greece, in Thessaloniki, and also made a small simulation of an operation from the moment they receive a call until the end of the operation. Finally, they became a member of the Network of Interest and a preliminary discussion was made for their involvement in the pilot.
- The Head and deputy head of Civil Protection of Municipality of Thessaloniki, where HRT presented the beAWARE project and discussed about their actions, steps and procedures during crisis events. They became a member of the Network of Interest and have been informed about the project's future steps, as well as the implementation of pilots that will take place in Vicenza, in Valencia and in Thessaloniki, discussing if they will participate actively or as observers.
- The Head of director of Social protection and public health of Municipality of Thessaloniki where again HRT presented the beAWARE project and discussed about their actions, steps and procedures during crisis events. They also became a member of the Network of Interest and have been informed about the project's future steps, as well as the implementation of pilots that will take place in Vicenza, in Valencia and in Thessaloniki, discussing if they will participate actively or as observers.

Moreover, during the 2nd year of the project, HRT has carried out the following activities:

- HRT has participated in the International Conference SafeKozani where it presented the project, the developed platform and its tools and its general progress until the day.
- HRT has hosted and carried the first Pilot of the project for the Heatwave scenario. There a 2nd round with face-to-face meetings with the relevant stakeholders and participants in the Nol, such as the Municipality of Thessaloniki took place in order to disseminate the pilot and to secure the participation and support of the Municipality in it. All information regarding the pilot are presented in D2.4 and D2.10.
- The days before the pilot, HRT carried out a workshop for the presentation of the beAWARE system to the participants and the observer in order on the one hand to present the status of system at the time and on the other to train those that would participate in the pilot.
- HRT has presented the project during the courses of its annual 2018 training school in a class of around 120 people, all citizens and potential members of HRT
- HRT has participated in the FP7 Driver+ Project Gaps Assessment Workshop in Aix-en-Provence, in January 2018 as an end-user representative of beAWARE

Finally, during the 3rd year of the project, HRT has carried out the following activities:

- Bilateral meetings with local municipal authorities in order to discuss the tools and particularly the use of the beAWARE system
- Bilateral meetings with fire department and civil protection authorities
- Bilateral meetings with members of the Nol in order to discuss potential exploitation paths of the system
- HRT has presented the project during the courses of its annual 2019 training school in a class of around 150 people, all citizens and potential members of HRT.
- HRT HQ discussed the project and its potential use with other members from its own branches
- HRT supported the presentation of beAWARE made by CERTH in an event that took place in CERTH organized by “Turkey in Horizon 2020 Phase II”.

AAWA

The first activity organized by AAWA took place in Vicenza (Italy) on the 19th of April 2017. It was an informal meeting between AAWA and Civil Protection Municipality of Vicenza. Its goal was to introduce the main stakeholder in the use case of the project and set the necessary flow of data for the implementation of the future activities.

The following month (on 10-11 May 2017), the first workshop of beAWARE was settled in Venice, organized by AAWA. During this workshop, in presence not only of the beAWARE

consortium, but also of the delegate of Vicenza municipality, all the Use Cases (flood, fire and heatwave) and the Initial User Requirements were defined.

The 20th of June 2018 AAWA presented a scientific contribution about beAWARE as an new innovative approach for the management of the flood events, in occasion of the last of the ‘days of Hydrology’, which is most important conference about Hydrology in Italy, gathering together scientific researcher, professionals and public administrations,

AAWA presented a scientific contribution about “An effective citizens’ participation in environmental stewardship: the Vicenza’s study case”, in the session “Sustainable cities, sustainable living” of ESOF (EuroScience Open Forum) 2018. ESOF is a biennial Open Forum settled in Toulouse (FR) from July 9 to 14, and it represents the largest interdisciplinary science meeting in Europe. It is dedicated to scientific research and innovation and offers a unique framework for interaction and debate for scientists, innovators, policy makers, business people and the general public. Created in 2004 by EuroScience, this biennial European forum brings together over 4000 researchers, educators, business actors, policy makers and journalists from all over the world to discuss breakthroughs in science. More than a 40% of the participants are students and young researchers. For this reason, the participation at this forum provided the opportunity to promote the visibility of beAWARE project.

On the 6th of November, AAWA informed the New Mayor of Vicenza and the delegate of the Civil Protection about the latest developments of beAWARE, presenting also video and slides - provided by the whole Consortium - about the current level of technology and the future improvement planned for the pilot (March 2019). In this occasion, AAWA will start planning the pilot exercise.

On the 26th of November, AAWA’s staff, together with CERTH and IBM, was in Vicenza for a survey in view of the pilot. In that occasion, some meetings between the Consortium’s delegates also took place and some with the main stakeholders of the flood pilot, such as the Vicenza Municipality, AIM multi-utility and the “Alta Pianura Veneta” Land Reclamation Consortium. That was a very productive opportunity not only for the planning of the pilot and to inspect the available equipment, but also for discussing about the current emergency management protocol and how it can benefit from the beAWARE platform.

From November 27th to 30th 2018, AAWA organized in Venice the 2nd International Conference on *Citizen Observatories for natural hazards and Water Management* (COWM 2018). A specific session was held in COWM about “Decision support in extreme weather climate events”. The COWM 2018 conference focused on the potential of Citizen Science in the European (and beyond) water innovation landscape, and in particular in the fields of Environmental Management, Natural Risks management, Land use monitoring and management, investigating the role and opportunities for an active citizen participation in policy making and the new technologies and methods to support Citizen Observatories. Almost 90 scientific contributions (6 about BEAWARE) were presented at the event, attended

by over 220 people from 17 countries. The event, provided opportunities to engage with researchers, academics and practitioners actively involved in improving the understanding of citizen science initiatives and policy making bodies, and to find out more about the potential of Citizens' Observatories in empowering the society and improving the resilience at the community scale. This was the most suitable contest to publish, disseminate and promote beAWARE (also through the COWM's Facebook page). More specifically, beAWARE related issues have been discussed during the session "Decision support in extreme weather climate events".

Moreover, the COWM gathered together both national and international Stakeholders for the beAWARE pilot, starting from delegates of Vicenza Municipality, to international expertise on risk management. The many presentations about beAWARE performed by the Consortium's members who participated at the COWM were a great occasion to update the Stakeholders about the latest development of beAWARE.

In addition, these stakeholders provided to AAWA, a lot of feedback related to the project, in particular about user requirements, pilot set-up privacy and legal issues

The months of January and February 2019 had been full of activities related to beAWARE and the organization of the flood Pilot. AAWA staff was often in Vicenza, not only for organizing the pilot and perform the training of the technologies, but also to present beAWARE capabilities and, promote them to authorities, citizen and civil protection operators. In particular, amongst these activities AAWA and the Municipality of Vicenza Organized a press conference about the pilot and beAWARE (25th of February 2019)

After the flood Pilot, on the 20th of march 2019 AAWA presented the outcomes of that activity in occasion of the civil protection committee of the province of Vicenza, at the presence of Municipality of Vicenza, local and provincial Civil Protection, Region, Local and regional authorities.

Finally, the beAWARE project, with a particular focus on the technologies for the management of flood events, had been presented by AAWA in occasion of three info days to the Professional Orders of the Engineers of the provinces of Padova, Venezia and Vicenza (these events took place between the 18th and 25th of October 2019)

CERTH

CERTH, the lead partner of beAWARE, in collaboration with other beAWARE partners organised a common workshop with iREACT and ANYWHERE projects, namely the 1st International Workshop on Intelligent Crisis Management Technologies for climate events - ICMT at the 15th Information Systems for Crisis Response and Management Conference (ISCRAM 2018), which took place on 20-23 May 2018 at Rochester NY, USA. Similarly, CERTH in coordination with iREACT and IN-PREP projects organized the subsequent 2nd ICMT workshop in ISCRAM 2019 on May 2019, with a focus on individual-centric emergency

management systems. Additionally, CERTH, along with iREACT and ANYWHERE organised a special session on ‘Science in support of EU Disaster Risk Reduction policies in the area of weather and climate extreme events’³, in the framework of the 4th European Climate Change Adaptation conference (ECCA 2019) in Lisbon, Portugal, during 28–31 May 2019, where they had the chance to interact and present the outcomes of their projects. Finally, CERTH is among the organizers of TRACK 15 - Tool Talks of the 17th Information Systems for Crisis Response and Management Conference (ISCRAM 2020), which will take place on 24-27 May 2020 at Blacksburg, Virginia, USA.

Moreover, CERTH was invited and participated as external participant in the second trial of DRIVER+ project which simulating a large-scale fire and in the 3rd table-top exercise of IN-PREP project in Kampen (the Netherlands) on 10 October 2019, simulating a massive flood event.

Furthermore, throughout the project, CERTH participated into numerous international conferences and workshops, namely The Web Conference 2018, CVPRWAI City Challenge 2018, ICMT 2018, IEEE IVMSPP 2018, EnviroInfo 2018, MediaEval 2018, COWM 2018, TRECVID 2018, IEEE ECCV Visdrone, where the project’s results were presented. It is worth to be mentioned, that the work “A multimodal approach in estimating road passability through a flooded area using social media and satellite images” won the Second place in MediaEval, Multimedia Satellite task 2018. Additionally, preliminary results of localization algorithm in machine vision have been presented in the journal Computers in Industry, in a work entitled as “Dynamic texture recognition and localization in machine vision for outdoor environments” and published in the journal Computers in Industry.

Moreover, CERTH participated in the 2018 Security Research Event (SRE 2018) jointly organised by the European Commission and the Austrian Ministry for Transport, Innovation and Technology, that took place on 5th and 6th of December in Brussels at the Square Meeting Centre. The Security Research Event is the annual meeting where industry, governments and knowledge institutions come together to discuss the state of play and current challenges for security research in Europe. During this meeting, beAWARE team had the opportunity to present the results from the first 18th months of the beAWARE’s project lifetime. Similar events that CERTH participated include I-LEAD Industry Days 2019, IFAFRI (International Forum to Advance First Responder Innovation) Industry Day etc.

³ <https://www.ecca2019.eu/science-in-support-of-eu-disaster-risk-reduction-policies-in-the-area-of-weather-and-climate-extreme-events/>

Finally, CERTH is a member of several of initiatives, such as the European Flood Awareness System (EFAS), with the aim to support preparatory measures before major flood events strike.

MSIL

MSIL disseminated the Project within the corporate network. In addition, MSIL assisted in preparation of the Project related dissemination materials. Furthermore, MSIL gave in interview which was published by Globes [online], Israel Business News - www.globes-online.com - on May 10, 2017 (<https://en.globes.co.il/en/article-motorola-solutions-israel-developing-disaster-handling-system-1001188139>) that presented the project, its goals and potential use of the system. Besides, MSIL participated in 15th International Conference on Information Systems for Crisis Response (ISCRAM) Conference that took place on 20 - 23 May 2018, in Rochester NY, USA, where the dedicated paper on UX Architecture and Blueprint Robust Dashboard Architecture was presented.

Moreover, MSIL demonstrated the beAWARE platform in “The Israel National Emergency Summit” at **November – 28, 2019** (<http://www.emergencyisrael.org/?categoryId=24419>), as well as in an exhibition in Georgia - November 18-20 (<https://iaemconference.info/2019/>).

IBM

IBM dissemination efforts centered on the drone platform capabilities, with emphasis on search and rescue kinds of missions. The dissemination effort takes place both internally, within the company with the respective business units, and externally to attract the scientific and potential end-users. Specifically, IBM introduced the drone platform, as a part of the overall beAWARE solutions in the COWM 2018 conference. A corresponding blog post on the project web site was released as well.

In February 2019, IBM participated at the Mobile World Congress (MWC - <https://www.mwcbarcelona.com/>) in Barcelona introducing the drones platform to potential clients and potential EU partners. Further two visits in Zurich (IBM research lab) took place in May and June 2019 in which the drones platform was discussed with potential clients. Later in June the drones platform was presented at the IBM IoT Exchange in Berlin (<https://www.learnquest.com/iot-exchange-berlin-2019>) to potential clients and EU partners. In July, September and November 2019 three visits to a potential client in Copenhagen took place. In November the drones platform was presented in the IBM Zurich Lab Press Day, in which it was highlighted as one of the new and promising technologies coming out of IBM research.

FMI

FMI participated in the 2nd International Conference on Citizen Observatories for Natural Hazards & Water Management (COWM 2018) where informed potential open data users,

decision support system operators and developers on beAWARE solutions related to operational meteorological data.

Throughout the project period, the beAWARE solutions were regularly disseminated at specially organized internal FMI triplet meetings of three related H2020 projects where FMI was involved as a partner: I-REACT (Improving Resilience to Emergencies through Advanced Cyber Technologies, 2016-2019), ANYWHERE (EnhANCing emergencY management and response to extreme WeaTHER and climate Events, 2016-2019) and beAWARE (2017-2019). In total 15 meetings were held.

PLV

In order to disseminate the beAWARE project, the European Projects Department of the PLV has attended many different conferences and events:

- In **October 2016**, PLV attended the **SRS Security Congress in Bilbao** where the beAWARE project was disseminated.
- In **February 2017**, PLV attended two different events:
 - Firstly, an **internal meeting with the firefighters** took place in the **Valencia Firefighter's Headquarters** with the objective to prepare their use case.
 - PLV was one of the LEAs invited to speak at the [20th European Police Congress](#) hosted in Berlin in February 21st and 22nd of 2017. The topic of the congress was "Europe—boundless? Liberty, mobility, security" and there were about 1,600 national and international participants. The congress was addressed to LEAs and industries and the latest developments in technologies for the professional use in the security sector were presented by the exhibitors.
- In **April 2017**, PLV attended the **SMILE Conference** held in Long Beach (USA) on the 3rd April and was addressed to the industry, the media and the LEAs. The SMILE conference is devoted to social media, the Internet and the Law Enforcement initiatives for crime prevention and forensics.
- In **May 2017**, a meeting was held with two Valencian high schools (IES El Saler and CEIP Lluís de Santàngel), which are located in **La Devesa de El Saler**. It took place on May 17th and its aim was to design and organize a fire drill that was going to be carried out in the area of El Saler. The meeting was satisfactory due to the importance of this kind of activities and also thanks to the good cooperation of the stakeholders.
- PLV attended the **SICUR 2018**, which was held in Madrid in **February 20th-23rd** and was addressed to companies, associations and professional end users of safety and security. SICUR is an International Exhibition for Security, Safety and Fire usually

attracting an audience of more than 40000 visitors from 76 European countries, and more than 1300 companies from 21 different countries.

- On the **24th October 2018**, the [European Brokerage Event on Resilience from disaster 2019](#) was held in the Ministry of Research and Innovation in Paris. It was addressed to practitioners and the PLV was one of the attendants. The event was dedicated to those interested in the uptake of security research and innovation and it was an opportunity to meet other practitioners from our discipline and from other disciplines, and to share our needs and ideas with the aim of paving the way for future cooperation.
- In **November 2018**, different dissemination events and meetings related to the beAWARE project were held:
 - **Valencia Canvia pel Clima** is an initiative launched by the foundation of the City Hall of Valencia which consists in a series of activities focused on the fight against climate change. Due to its attachment with the beAWARE project, the PLV presented it to the audience of the workshop as a comprehensive solution to improve the responses of the emergency services regarding the climate change. It was held on the **6th November**.
 - On the **21st November**, PLV held a **meeting with the research groups of the Polytechnic University of Valencia (UPV)** so as to look for new ideas, synergies and other European projects to improve the security of all Valencian citizens. The meeting was an unparalleled opportunity to share and disseminate all the projects that the European Project department is carrying out.
 - On the **21st and 22nd November**, the first national meeting **“Police Drones 2018”** was held, which was addressed to the Spanish LEAs and which assembled over 120 participants. Amongst them, PLV attended the meetings and workshops and took new ideas and advices for the future development of our projects.
- In **December 2018**, two events took place:
 - On the **5th and 6th December**, the **Security Research Event 2018** was held in Brussels, and it was organized by the European Commission and the Presidency of the Council of the European Union. The event, under the theme “Making Europe a safer place: demonstrating the impact of EU-funded security research”, gathered 800 participants representing a wide range of security stakeholders: researchers, industry representatives, public security providers and practitioners. The PLV had a booth, where we presented and disseminated different projects such as beAWARE.

- On the **11th December the European Projects Department was in the Ministry of Interior of Slovenia**. It was an incredible opportunity to disseminate the beAWARE project.
- On the **12th December during the Public Service Communication Europe (PSCE) conference and workshop** that took place in the city of **Bled (Slovenia)**, the PLV had the opportunity to present “What are the benefits of an enhanced decision support system against wildfires? The case of beAWARE project.” This presentation received a valuable feedback from the experts that participated in the conference.
- In December, 2018, PLV visited the Ministry of Interior of Finland in Helsinki and the Local Police of Lahti, in order to exchange best practices and the participation on different European Projects. The beAWARE project and its development was presented to both organizations during face to face meetings, as well as other research & innovation activities.
- In January 15th, 2019, PLV had a bilateral meeting with the Local Police of San Sebastián. In this meeting it was discussed the participation of both organizations in different European projects, and it was specifically discussed the role that we perform as end-users in the beAWARE project.
- In February 20th, 2019, staff from PLV presented beAWARE to other LEAs from Mossos d’Esquadra (Catalonia’s Regional Police Force) and the local Police of Hospitalet de Llobregat on a bilateral meeting where the beAWARE platform was presented to these organizations.
- In May, 2019, PLV participated in the Regional Infoday H2020, where the aim was to promote safe European societies in a context of unprecedented transformations such as growing interdependence and global threats, as well as the strengthening of the European culture of freedom and justice. Here, PLV disseminated the beAWARE project in the scope of the extreme climatological events that we are increasingly facing as climate change is a worldwide issue.
- In June, 2019, PLV had a face to face meeting with CEPOL members from Hungary. The aim of the meeting was sharing the results of the innovation activities done under the H2020 European research framework. Specifically, it was described the work done under the beAWARE and TAKEDOWN projects, and how it has been integrated into our organization.
- In July, 2019, representatives of the government of the Czech Republic (specifically members of the Department of Civil Protection and from the Department of Security

Engineering), assisted to a meeting in the PLV Headquarters. During this meeting, it was done an exchange of best practices by both organizations, as well as the dissemination of the beAWARE project and other H2020 projects.

- In October, 2019, PLV took part in the Common Alerting Protocol (CAP) Workshop 2019. The CAP 2019 Implementation Workshop was held 17-18 October, in Mexico City, Mexico. The workshop was hosted by the Secretariat of Integral Risk Management and Civil Protection and co-sponsored by: the International Association of Emergency Managers (IAEM), the International Federation of Red Cross and Red Crescent Societies (IFRC), the International Telecommunication Union (ITU), the OASIS standards organization, and the World Meteorological Organization (WMO). In this international event, Mr. José Luis Diego explained in a conference the Common Alerting Protocol implementation in the beAWARE project. Among the attendees, there were Law Enforcement personnel, managers, technical staff, media, etc., including those in government, non-governmental organizations (NGOs), and commercial organizations.
- In November, 2019, PLV attended Milipol Paris, the 21th session of the leading event for homeland security and safety, where the beAWARE project was shown to different stakeholders. Among others, the solution was presented to the Ertzaintza (police from the Basque Country) and the Carabinieri (Italian Police).
- In November, 26th 2019, PLV will attend CoU in Madrid (National Community of Security Users), organized by the Ministry of Interior and CDTI (Center for the Industrial and Technological Development), will host several conferences regarding the following topics: human factors on secure societies, terrorism, and strategic perspectives on H2020 program.
- Production of Dissemination Materials
 - The dissemination material used for the final pilot was mostly provided by FBRR. However, PLV ordered 200 USB units with the beAWARE logo for dissemination purposes.

4.5 Journal and Conference Publications

In this section we present the journal and conference publications of the beAWARE consortium.

beAWARE is a multi-partner project and many important ideas and findings can be published as scientific papers or for general publication. All publications of beAWARE members are listed in the table below.

Moreover, the authors of each publication have identified specific keywords related to each publication in order to make the search of a relative paper easy to a future researcher. These keywords will be uploaded in the relative section in the project’s website.

Table 5. Updated List of publications

No.	Title	Authors	Publication	Type	DOI
1	FORGe at SemEval-2017 Task 9: Deep sentence generation based on a sequence of graph transducers.	Mille, S., Carlini, R., Burga, A., & Wanner, L.	Proceedings of the 11th International Workshop on Semantic Evaluation (SemEval-2017) (pp. 920-923), 2017	Conference	https://doi.org/10.18653/v1/s17-2158
2	Intelligent traffic city management from surveillance systems (CERTH-ITI)	Avgerinakis, K., Giannakeris, P., Briassouli, A., Karakostas, A., Vrochidis, S., & Kompatsiaris, I.	NVIDIA AI City Challenge 2017, 2017	Conference	
3	Visual and textual analysis of social media and satellite images for flood detection@ multimedia satellite task MediaEval 2017.	Avgerinakis, K., Moumtzidou, A., Andreadis, S., Michail, E., Gialampoukidis, I., Vrochidis, S., & Kompatsiaris, I.	Proceedings of the MediaEval. Workshop, Dublin Google Scholar, 2017	Conference	
4	A Demo of FORGe: the Pompeu Fabra open rule-based generator.	Mille, S., & Wanner, L.	Proceedings of the 10th International Natural Language Generation Conference (INLG); 2017 Sept 3-4; Santiago de Compostela, Spain. Stroudsburg PA: ACL; 2017. p. 245-6. ACL(Association for Computational Linguistics), 2017	Conference	https://doi.org/10.18653/v1/w17-3539
5	FORGe at WebNLG 2017	Mille, S., & Dasiopoulou, S.	Proceedings of WebNLG 2017	Conference	
6	FORGe at E2E 2017	Mille, S., S. Dasiopoulou	Technical Report Proceedings of E2E	Shared Task	
7	UPF at EPE 2017: transduction-based deep analysis.	Mille, S., Latorre, I., & Wanner, L.	Proceedings of the 2017 Shared Task on Extrinsic Parser Evaluation (EPE 2017); 2017 Sept 20; Pisa, Italy. p. 80-8, 2017	Conference	

No.	Title	Authors	Publication	Type	DOI
8	LBP-flow and hybrid encoding for real-time water and fire classification.	Avgerinakis, K., Giannakeris, P., Briassouli, A., Karakostas, A., Vrochidis, S., & Kompatsiaris, I.	MSF 2017 IEEE ISPRS 4th Joint Workshop on Multi-Sensor Fusion for Dynamic Scene Understanding, in conjunction with ICCV 2017, 2017	Conference	https://doi.org/10.1109/iccvw.2017.56
9	A topic detection and visualisation system on social media posts.	Andreadis, S., Gialampoukidis, I., Vrochidis, S., & Kompatsiaris, I.	International Conference on Internet Science (pp. 421-427). Springer, Cham, 2017	Conference	https://doi.org/10.1007/978-3-319-70284-1_33
10	Flood Relevance Estimation from Visual and Textual Content in Social Media Streams.	Moumtzidou, A., Andreadis, S., Gialampoukidis, I., Karakostas, A., Vrochidis, S., & Kompatsiaris, I.	Companion of the The Web Conference 2018 on The Web Conference 2018 (pp. 1621-1627). International World Wide Web Conferences Steering Committee, 2018	Conference	https://doi.org/10.1145/3184558.3191620
11	The sensor to decision chain in crisis management.	Moßgraber, J., Hilbring, D., van der Schaaf, H., Hertweck, P., Kontopoulos, E., Mitzi, P., ... & Kompatsiaris, I.	15th Information Systems for Crisis Response and Management Conference - ISCRAM 2018, Rochester NY, USA	Conference	https://doi.org/10.5281/zenodo.1243527
12	Intelligent Utilization of Dashboards in Emergency Management	Mordecai Y., Kantsepol'sky B	15th Information Systems for Crisis Response and Management Conference - ISCRAM 2018, Rochester NY, USA	Conference	
13	"beAWARE: Enhancing Decision Support and Management Services in Extreme Weather Climate Events (Poster)"	Karakostas, Anastasios; Vrochidis, Stefanos; Kompatsiaris, Yiannis; Kantsepol'sky, Boris; Moßgraber, Jürgen; Dasiopoulou, Stamatia; Mandler, Benjamin; Karppinen, Ari; Ferri, Michele; Vourvachis, Iosif; Castro, Carmen; Lintrup, Kim	15th Information Systems for Crisis Response and Management Conference - ISCRAM 2018, Rochester NY, USA	Conference, Poster Session	

No.	Title	Authors	Publication	Type	DOI
14	Speed estimation and abnormality detection from surveillance cameras.	Giannakeris, P., Kaltsa, V., Avgerinakis, K., Briassouli, A., Vrochidis, S., & Kompatsiaris, I.	CVPR Workshop (CVPRW) on the AI City Challenge, 2018	Workshop	https://doi.org/10.1109/cvprw.2018.00020
15	Ontology-based Representation of Crisis Management Procedures for Climate Events	Kontopoulos, E., Mitzias, P., Moßgraber, J., Hertweck, P., van der Schaaf, H., Hilbring, D., Lombardo F., Norbiato D., Ferri M., Karakostas A., Vrochidis, S. & Kompatsiaris I.	ICMT Workshop – Proceedings of ISCRAM 2018, 20.-24. Mai 2018, Rochester NY USA	Conference	https://doi.org/10.5281/zenodo.1243535
16	People and vehicles in danger-A fire and flood detection system in social media.	Giannakeris, P., Avgerinakis, K., Karakostas, A., Vrochidis, S., & Kompatsiaris, I.	IEEE IVMSP 2018, Image, Video, and Multidimensional Signal Processing, 2018	Conference	https://doi.org/10.1109/ivmspw.2018.8448732
17	Dynamic texture recognition and localization in machine vision for outdoor environments.	Kaltsa, V., Avgerinakis, K., Briassouli, A., Kompatsiaris, I., & Strintzis, M. G	Computers in Industry, 98, 1-13, 2018	Journal	https://doi.org/10.1016/j.compind.2018.02.007
18	Harmonizing Data Collection in an Ontology for a Risk Management Platform	Hilbring, D., Moßgraber, J., Hertweck, P., Hellmund, T., van der Schaaf, H., Karakostas, A., Kontopoulos, E., Vrochidis, S., Kompatsiaris, I., Gialampoukidis, I., Andreadis, S.	EnviroInfo 2018, Garching, Germany	Conference	
19	beAWARE: Enhancing Decision Support and Management Services in Extreme Weather Climate Events	Anastasios Karakostas, Stefanos Vrochidis, Yiannis Kompatsiaris, Boris Kantsepolsky, Jürgen Moßgraber, Stamatia Dasiopoulou, Benjamin Mandler, Ari Karppinen, Michele Ferri, Iosif Vourvachis, Carmen	EnviroInfo 2018, Garching, Germany	Conference	

No.	Title	Authors	Publication	Type	DOI
		Castro, Kim Lintrup, (2018)			
20	A multimodal approach in estimating road passability through a flooded area using social media and satellite images.	Moumtzidou, A., Giannakeris, P., Andreadis, S., Mavropoulos, A., Meditskos, G., Gialampoukidis, I., ...&Kompatsiaris, I.	MediaEval'18, 29-31 October 2018, Sophia Antipolis, France	Conference	https://doi.org/10.5281/zenodo.2540398
21	ITI-CERTH participation in TRECVID 2018	Avgerinakis K., Moumtzidou A., Galanopoulos D., Orfanidis G., Andreadis S., Markatopoulou F., Batziou E., Ioannidis K., Vrochidis S., Mezaris V., Kompatsiaris I.	TRECVID 2018	Conference	
22	Applying Semantic Web Technologies for Decision Support in Climate-Related Crisis Management	Kontopoulos, E., Mitzias P., Dasiopoulou, S., Moßgraber, J., Mille, S., Hertweck, P., Hellmund, T., Karakostas, A., Vrochidis, S., Wanner, L., &Kompatsiaris, I.	2nd International Conference Citizen Observatories for natural hazards and Water Management (COWM 2018), Venice, 27-30 November 2018	Conference	10.5281/zenodo.1297470
23	A Crisis Classification System for flood risk assessment: the beAWARE project	G. S. Antzoulatos, A. Karakostas, S. Vrochidis, F. Lombardo, D. Norbiato, M. Ferri, I. Kompatsiaris	2nd International Conference Citizen Observatories for natural hazards and Water Management (COWM 2018), Venice, 27-30 November 2018	Conference	
24	Social Media Observations for Flood Event Monitoring in Italy over a One-Year Period	S. Andreadis, I. Gialampoukidis, R. Fiorin, F. Lombardo, D. Norbiato, A. Karakostas, M. Ferri, S. Vrochidis and I. Kompatsiaris	2nd International Conference Citizen Observatories for natural hazards and Water Management (COWM 2018), Venice, 27-30 November 2018	Conference	10.5281/zenodo.2545381
25	Using crowd source information for managing climate events through the	Philipp Hertweck, Tobias Hellmund, Desirée Hilbring, Hylke van der	2nd International Conference Citizen Observatories for natural hazards and	Conference	

No.	Title	Authors	Publication	Type	DOI
	use of modern mobile technology	Schaaf, Jürgen Moßgraber	Water Management (COWM 2018), Venice, 27-30 November 2019		
26	DRONES – Rescue from above	Guy-Ifergan N., Ben-Harrush I., Pikus D & Barnea M	2nd International Conference Citizen Observatories for natural hazards and Water Management (COWM 2018), Venice, 27-30 November 2018	Conference	
27	The Crisis Classification component to strengthen the early warning, risk assessment and decision support in extreme climate events	Gerasimos Antzoulatos, Anastatios Karakostas, Stefanos Vrochidis, Ioannis Kompatsiaris	Submitted to European Climate Change Adaptation conference – ECCA, 2019, Lisbon, 28–31 May	Conference	
28	DRONES TO THE RESCUE – Bringing muscle to weather Crisis Management	Benny Mandler	Web	Blog post	
29	The First Multilingual Surface Realisation Shared Task (SR'18): Overview and Evaluation Results	Mille, S., A. Belz, B. Bohnet, Y. Graham, E. Pitler, L. Wanner	Proceedings of the 1st Workshop on Multilingual Surface Realisation (MSR), 56th Annual Meeting of the Association for Computational Linguistics (ACL)	Shared Task	https://doi.org/10.18653/v1/w18-3601
30	Underspecified Universal Dependency Structures as Inputs for Multilingual Surface Realisation	Mille, S., A. Belz, B. Bohnet, L. Wanner	Proceedings of the 11th International Conference on Natural Language Generation	Conference	https://doi.org/10.18653/v1/w18-6527
31	Sentence Packaging in Text Generation from Semantic Graphs as a Community Detection Problem	Shvets, A., S. Mille, L. Wanner	Proceedings of the 11th International Conference on Natural Language Generation	Conference	10.18653/v1/W18-6542
32	beAWARE: innovative approach in the support and integrate management of extreme weather events (in Italian: “beAWARE: approccio innovativo per il supporto decisionale e la gestione integrata di eventi climatici estremi”)	Ferri M., Norbiato D., Tomei G., Lombardo F., Zaffanella F.	Book of Abstract of the Days of Hydrology 2018 (Giornate dell’ Idrologia 2018); 2018 June 18-20, Rome, Italy. P. 80-81 (In Italian), 2018.	Conference	
33	Providing meteorological data for emergency	Karppinen A.1, Tyuryakov S.1, Wood	Abstracts of the 2nd International	Conference	

No.	Title	Authors	Publication	Type	DOI
	response in the beAware project	C.1, Rantamäki M.1, Tarvainen V.1, Ylinen K.1, Lombardo F.2, Monego M.2, Ferri M.2 & Norbiato D.2 1 Finnish Meteorological Institute 2 AAWA	Conference on Citizen Observatories for Natural Hazards and Water Management. Venice, 27-30 November 2018	abstract	
34	A portable grammar-based NLG system for verbalization of structured data.	S. Mille, S. Dasiopoulou, L. Wanner	34th ACM/SIGAPP Symposium on Applied Computing (SAC'19)	Conference	https://doi.org/10.1145/3297280.3297571
35	Management of Sensor Data with Open Standards	P. Hertweck, T. Hellmund, H. van der Schaaf, J. Moßgraber, J. Blume	ISCRAM 2019	Conference	
36	A Filtering and Visualization Workbench for Messages in Crisis Management	J. Blume, P. Hertweck, T. Hellmund, J. Moßgraber	ISCRAM 2019	Poster presented on Conference	
37	Towards to integrate a multi-layer Machine Learning Data Fusion approach into Crisis Classification and Risk Assessment of extreme natural event	Gerasimos Antzoulatos, Anastatios Karakostas, Stefanos Vrochidis, Ioannis Kompatsiaris	MSE2019 – Mediterranean Security Event 2019, October 29th – 31st, 2019, Heraklion, Crete, Greece	Conference	
38	“Multimedia Analysis Techniques for Flood Detection Using Images, Articles and 39Satellite Imagery”	S. Andreadis, M. Bakratsas, P. Giannakeris, A. Moutzidou, I. Gialampoukidis, S. Vrochidis, I. Kompatsiaris,	in Proceedings of the MediaEval Workshop, 27-29 October 2019, Sophia Antipolis, France	Workshop	
39	The backbone of decision support systems: the sensor to decision chain	Philipp Hertweck, Jürgen Moßgraber, Efstratios Kontopoulos, Panagiotis Mitzias, Tobias Hellmund, Anastasios Karakostas, Désirée Hilbring, Hylke van der Schaaf, Stefanos Vrochidis, Jan-Wilhem Blume, Ioannis Kompatsiaris	International Journal of Information Systems for Crisis Response and Management (IJISCRAM)	Journal	10.4018/IJISCRAM.2018100104

No.	Title	Authors	Publication	Type	DOI
40	Semantic Queries supporting Crisis Management Systems	Manfred Schenk, Tobias Hellmund, Philipp Hertweck and Jürgen Moßgraber	The Thirteenth International Conference on Advances in Semantic Processing SEMAPRO 2019	Conference	
41	Employing Geospatial Semantics and Semantic Web Technologies in Natural Disaster Management	Tobias Hellmund, Manfred Schenk, Philipp Hertweck, and Jürgen Moßgraber	Semantics 2019, September 2019, Karlsruhe	Conference Poster	
42	The Second Multilingual Surface Realisation Shared Task (SR'19): Overview and Evaluation Results	Mille, S., A. Belz, B. Bohnet, Y. Graham, E. Pitler, L. Wanner	Proceedings of the 2nd Workshop on Multilingual Surface Realisation (MSR), International Conference on Empirical Methods in Natural Language Processing, October 2019	Shared Task	https://doi.org/10.18653/v1/d19-6301
43	Teaching FORGe to Verbalize DBpedia Properties in Spanish	S. Mille, B. Fisas, S. Dasiopoulou, and L. Wanner	12th International Conference on Natural Language Generation. Tokyo, Japan, 2019	Conference	https://doi.org/10.18653/v1/w19-8659

4.6 Online Presentations (Webinars)

During the final year of the project, 2 online presentations (webinars) took place in order to disseminate the execution of the pilots and the respective version of the platform that was used in each of the pilots. The goal of these online presentations was to present the pilot and the capabilities of the platform to stakeholders and members of the NoI who were not able to attend the pilot so as to communicate the results to various audiences.

For the Flood scenario, two online presentations were carried out:

1. One in Italian, on the 12/09/2019, that attracted around 15 participants
2. One in English on the 08/10/2019, that attracted more than 40 participants

The purpose of carrying out two separate online presentations was to attempt to involve as many local stakeholders as possible. The idea was that by carrying out an online presentation in the local language of the partner that executed the pilot, more local stakeholders would be able to participate by removing the “barrier” of the language and due to the area, that the pilot took place.

However, an English online presentation also took place in order to attract and disseminate the pilot and its results to a more international audience.

The agenda of both presentations for the Flood scenario was:

- Greetings
- Presentation of the beAWARE project (participants, goals, objectives, products and pilots)
- Presentation of Vicenza / Flood pilot (including video)
- Open discussion, Q&As

In both presentations the video that was produced for the flood pilot was presented as well in order for the audience to obtain an even broader picture about the pilot.

For the Fire scenario, one online presentation was carried out in English on the 19th of December 2019 that attracted more than 30 participants. This presentation was carried out only in English due to the fact there was a lot of time pressure to finalize activities since the project was ending and the decision was made to carry it out only in English in order to attract bigger and more international audiences. It is also worth mentioning that there were cases representatives from some organisations connected collectively through a single connection.

The agenda for the Fire online presentation was the same, like in the case of the Flood online presentation.

In general, all online presentations had a good impact with stakeholders and set the ground for discussions with the participants in the end, who wanted to know more on the use and functionalities of the platform.

One thing that it was noticed after the heatwave online presentations was the low number of attendances. Although that dedicated invitations were sent to the NOI and additionally, social media campaigns were made in order to promote the event, the turnout was now as warm as hoped and expected.

For the following online presentations, this was met by calling and contacting stakeholders directly and asking them to participate in the online presentations, in addition to social media announcements and dedicated email communication to NOI members. This as a practice produced better results with higher numbers of attendance.

5 Overall status of KPIs

In the revised version of the previous deliverable D8.1, a list of KPIs was presented. In this final version an overview of the final status of these KPIs is presented.

For ensuring that all initiated dissemination and communication tools will be effective it is necessary to monitor them through a set of **Key Performance Indicators (KPIs)**. The objectives of the KPIs is to set a list of measurements that will be used as evaluating factors that are crucial to the success of a project. The purpose of using KPIs is to draw attention on the tasks and processes, make progress towards declared goals and targets, and deliver information on outputs and results across all areas of the project.

For the purposes of the dissemination and communication actions of the project, these indicators acted as a measurement tool for all activities of the beAWARE project. The figure below shows which KPIs have been indicated for the project.



Figure 1. beAWARE KPIs.

5.1 List of Key Performance indicators

Table 6. List of KPIs – Overall Status

Channel	Description	Content	Source of information	KPI (End of Project)	Overall Status
Project website	Online page which provides general project information for the public, including project objectives, consortium members, public deliverables, news and events, dissemination material, social network links, newsletter subscription etc.	General Project Information.	Google Analytics	20.000 page views	26.311 page views
Social media activities	Promotion of the project activities and results through LinkedIn, Facebook, Twitter, increasing the visibility of beAWARE	General project information, relevant news with the project scope, communication with other H2020 projects	Social Media page analytics	250 followers	329 Twitter 306 Facebook 55 LinkedIn
Publications	Consortium partners will publish (according to the IPR protection strategy) the results in a journal	Publishable project results.	Google scholars	10 scientific papers published in International Journals and conferences.	43 Publications
Events participation	Project presentation in a number of national and international conferences, fairs,	General project information, publishable project results.	Attendance sheets, photo, announcement etc.	At least 5 participations	64 participations

Channel	Description	Content	Source of information	KPI (End of Project)	Overall Status
	seminars, workshops, etc.				
Workshop	Organizing of a European project Workshop: It will take place nearly the end of the project at an EU country in parallel with a respective event with high reputation on emergency services.	Share experiences and lessons learned with stakeholders, and disseminate project results and success stories	Attendance sheets, photo, announcement etc.	At least 50 participants	More than 200 participants in the conference.
Newsletter	A newsletter will be created and distributed every six months, or after any major project event (e.g. pilots etc.) to all identified stakeholders, subscribers and members of the projects Nol list.	All the project updates, news and participation in events and conferences	MailChimp Analytics Project website analytics	300 subscribers +	<u>207 subscribers</u> 7 newsletters 33% opened (mail) 44 av. pageviews (site) Average time on page: 02:03 Total Pageviews in news section: 871 Average time on page: 01:20
Info Days	There will be training info days organised by the partners who lead the pilots.	They will be aimed at making pilot users aware about the objectives and	Participation sheet, public announcement etc.	Three (3) info days will be arranged per pilot	One (1), during the Heatwave Pilot in Thessaloniki.

Channel	Description	Content	Source of information	KPI (End of Project)	Overall Status
		activities of the pilots, while also training them on using the beAWARE platform.			One (1), during the Flood Pilot in Vicenza. One (1), during the fire Pilot in Valencia
Promo Material	Project brochure, banner, poster, project presentation.	General project information	Downloads and number of printing material	300 Downloads ⁴ <ul style="list-style-type: none"> • Total Pageviews in Recourses page • Total Pageviews in deliverables page 3.000 items distribution	Total Pageviews in Recourses section: 629 Average time on page: 02:47 Total Pageviews in deliverables section: 1068 Average time on page: 02:39 1.150 Flyers 200 factsheets 3 Posters 4 banners 8 videos 200 Notebooks & pencils 20 fluorescent vests 110 bags

⁴ The material can also be viewed online

Channel	Description	Content	Source of information	KPI (End of Project)	Overall Status
					100 folders Training materials 200 beAWARE agenda book 30 beAWARE badges 200 USBs

It should be mentioned that some of the KPIs were enriched based on the information that can be monitored and that can be used to extract feedback and relation to the dissemination and communication outcome of the project's status. More specific, for the newsletter apart from the MailChimp Analytics we also used the Project's website analytics to extract information such as:

- Number of pageviews
- Average time spent of a specific newsletter

The same information was used to assess the project's dissemination impact regarding the promotional material, which is also available to be viewed online on the website.

5.2 Overview of KPIs

Based on the final status of the KPIs, it can be seen that a significant boost was given during the final year of the project. More specifically:

- The page views on the web site have more than doubled during the final year of the project, which results to higher traffic and more people visiting the project's website, passing the goal set in the previous deliverables.
- The followers in the project's social media accounts also have been double and in the case of twitter almost tripled during the final year. The threshold set in D8.1 has been met and surpassed. However, we need to mention that in order to achieve more traffic and increase the impact of our social media we used the organizational accounts from project partners in order to use the already established basis of followers to those accounts.
- Regarding the newsletters the goals that were set were:
 - Based on the DoA a semiannual newsletter which translates in a total of 6 newsletters until the end of the project. The total number of newsletters that were created by the project were 8, were dedicated newsletters for the pilots were published as well.

- To reach 300+ subscribers. This goal has not been reached despite the fact that during the last year the subscribers have more than doubled. However, leaving aside the number of subscribers and taking into account the average time that was spent on the newsletters, it can be deduced that the people that either open the newsletter via the email or via the website were genuinely interested in reading its contents. Moreover, the lacking number of subscribers of the newsletters can somehow be balanced based on the number of page views of the News section of the website in combination with the average time spent in the section.
- Publications have been more than 4 times the goal that was set in the DoA, a goal that was met even during the first year of the project's lifecycle. This means that probably the goal was not high enough and a higher number could be set in the beginning of the project.
- Like in the case of publications, participation in events was a goal that was very easily met and surpassed, which also means that probably the goal was not high enough and a higher number could be set in the beginning of the project.
- Regarding promo material, the project covered all the referred requirements of producing posters, brochures, banners and project presentations. However, in order to support its pilots and to disseminate further its activities, other material was produced as well like notebooks, bags, folders and USBs containing information about the project. Moreover, all material has been uploaded in the project's website in order to be available.

Furthermore, apart from the before mentioned, other dissemination material was produced as well with videos being the most prominent. As mentioned in deliverables D8.6, a YouTube channel for the project has been established in order to disseminate the videos that have been produced, like videos from project presentation, videos of the pilots, etc. A total of 10 videos have been produced and uploaded in the project's YouTube channel and in a dedicated section of the project's website as well.

Finally, another way of disseminating project results was to publish non-confidential deliverables on the project website. Although not as appealing as a video or a presentation, this relevant section of the project's website has attracted more than 1000 page-views with an average duration on the site of more than 2.5 minutes, which is indicative to the fact that the average reader spent time to read the deliverables.

6 Dissemination highlights

Apart from the participation in notable and distinguished conferences and the writing of prestigious papers, during the last quarter of the project there have been some notable moments in the project's dissemination activities.

More specifically, 8 tweets relative to beAWARE project were retweeted by REA. As an example, it could be mentioned one from the beAWARE's twitter account and another made by PLV's account. The first tweet was made during the implementation of the third pilot of the project in Valencia and concerned the recent floods in Venice. The second was a tweet that disseminated an article in the largest regional newspaper in Valencia concerning the third pilot that took place in November 2019 and was characterized as a success story.

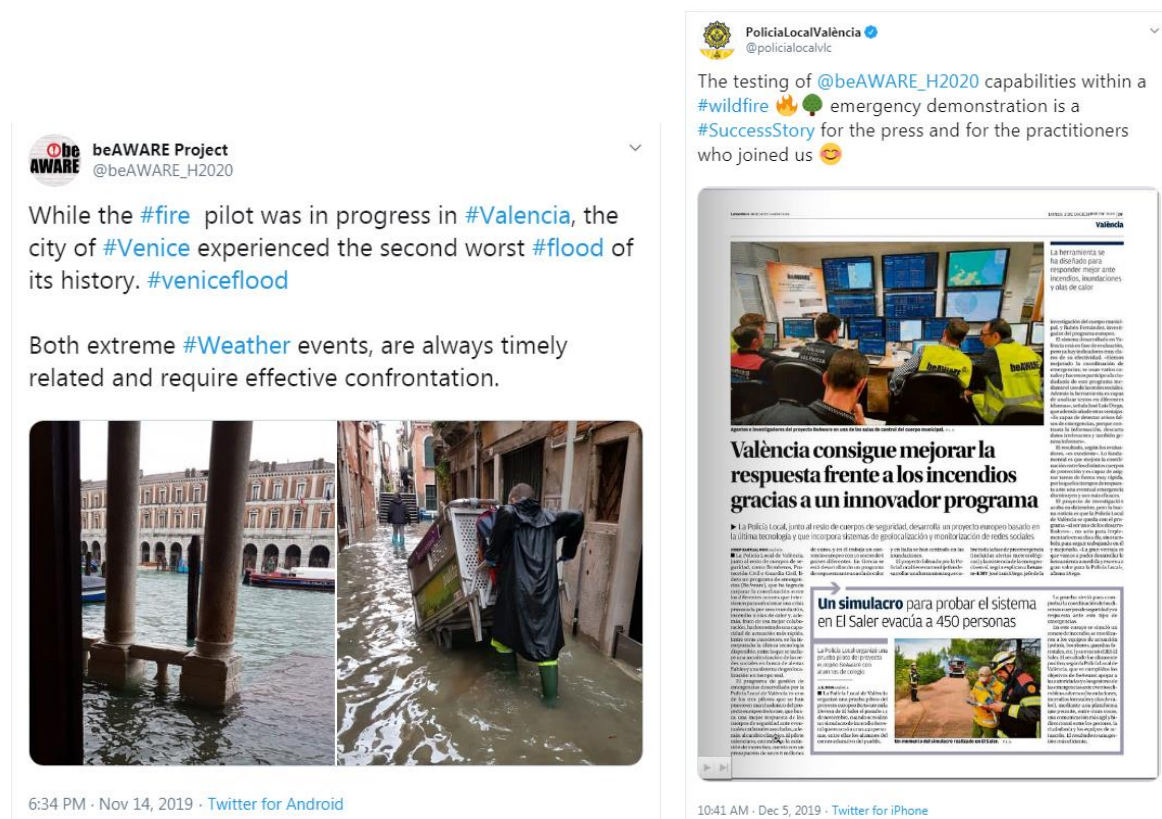


Figure 2. beAWARE tweets retweeted by REA.

Moreover, the aforementioned article was a full page article that was in the largest regional newspaper in Valencia, describing the project, the pilot mentioning at the same time that it supported the evacuation of 450 people.



Figure 3. Image of the article for fire pilot in Valencia.

A very notable highlight for the dissemination of the project was the publication of the beAWARE's results in an article published in CORDIS and included in "CORDIS Results Pack on disaster-resilient societies: A thematic collection of innovative EU-funded research results" in October 2019.

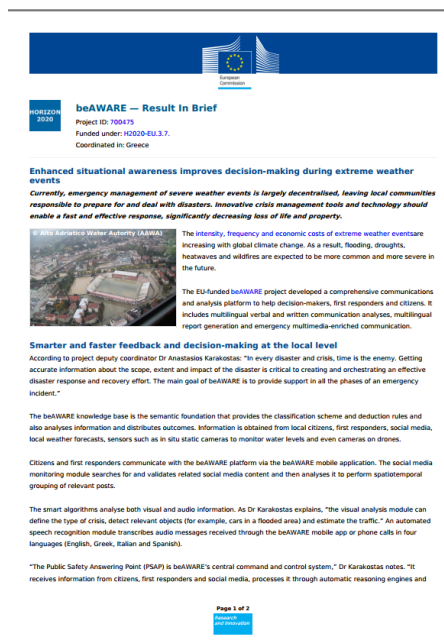


Figure 4. Image CORDIS factsheet for the project's result.



Figure 5. CORDIS Results Pack on disaster-resilient societies.

Last but not least, it is worth mentioning that apart from the participation and representation of beAWARE in the FP7 DRIVER+ project's events, beAWARE was also included in the DRIVER+ project on its 6th newsletter that was published on the 6th of March 2019

(<https://mailchi.mp/cc7240429069/driver-newsletter-6-march-2019?e=%5bUNIQID%5d>).

7 Conclusions

This document presents a final analysis of the target groups, the dissemination and communication strategy followed and the activities taken along with the final status of the defined KPIs.

Dissemination is something that needs to be planned and organized. A strategy that identifies the steps and the methods to achieve it will ensure its success.

It is noted that different types of target groups provided multiple and useful information, input and ideas for the beAWARE platform, in a wide geographical and financial coverage, involving various stakeholders and interested organizations of different types and backgrounds. Meetings with various stakeholders, from different communities, supported the dissemination of the project. Meetings were not limited at the local level but also to the at municipal, regional and national level, reinforcing the impact of the project.

Furthermore, it is important for project partners to work with relevant European, and not only, projects and initiatives which can provide extra knowledge and the know-how in many fields of beAWARE. Additionally, the participation of beAWARE members in conferences and their contribution in publications play vital role for the dissemination of beAWARE. Synergies with other EU projects allowed maximizing the impact and disseminate beAWARE to larger audiences. From the organization of common workshops in the framework of significant conferences (eg ISCRAM 2018, 2019) to posting articles of beAWARE to other project's newsletter (DRIVER+), beAWARE attempted to develop synergies in order to support its dissemination goal and fulfill its objectives.

The high number of publications demonstrates the strong scientific interest and the high research activity that took place during the development of beAWARE system as well as the consortium's efforts to disseminate all the technological developments and results to the scientific community so as to strengthen the scientific impact of the project. Furthermore, attending events was not mere participation but in some case the organisation of workshops during major conferences, like ISCRAM, gave ground to beAWARE.

The Dissemination and communication strategy is crucial to support our plan to reach a larger number of end users, technological providers, PSAP operators and other scientific and not only entities, who potentially are interested, want to collaborate, or even use the platform.

The activities reports, with coordinated and supported actions of all members of the consortium contributed to the execution of the dissemination and communication strategy, providing a unified picture of the activities carried out to identify weaknesses and take corrective actions.

Although at the beginning of the project the implementation of dissemination and communication activities met some setbacks and could be characterized as weak, corrective actions took place in order to enhance the impact of the relative activities. For example, regarding the use of social media, although the followers of the projects account could be described as low, all partners supported the distribution of the project's posts via their own social media accounts that have an extensive existing network. Needless to say this could have been done from the beginning of the project, however once this issue was recognized, corrective actions were taken which resulted in the satisfaction of all KPIs set for the project. Furthermore, it worth mentioning that as expected the execution of the project's pilots allowed the end users to come to the front of the project, shifting the project's image from a scientific to a more end-user focus, hence allowing to demonstrate the beAWARE's results and setting the ground for other end users to relate with the scenarios and recognize the overall value of the system.

Overall, during the implementation of all dissemination and communication activities, the project allowed the transfer of knowledge and its results not only to closed scientific audiences or stakeholders but also to other audiences, like citizens.