beAWARE

beAWARE

Enhancing decision support and management services in extreme weather climate events

700475

D8.2

Dissemination and Communication strategy and activities report – v2

Dissemination level:	Public
Contractual date of delivery:	Month 24, 30 December 2018
Actual date of delivery:	Month 25, 21 January 2019
Work package:	WP8: Dissemination, exploitation and impact
Task:	T8.1 - Dissemination and Communication
Type:	Report
Approval Status:	Final version
Version:	V0.4
Number of pages:	70
Filename:	D8.2_Disseminiation_and_Communication_strategy_and_activities_report_v2_v0.4

Abstract

This document describes the activities taken for the formation of the Dissemination and Communication strategy and the planned activities that have been chosen and formulated in order to support its execution as well as whom it addresses.

Moreover, the document reports on the current status of the communication and

dissemination plan on M24. Since this is the 2nd version of the deliverable "D8.1: Dissemination and Communication strategy and activities report" some content may be the same as D8.1.

Co-funded by the European Union

History

Version	Date	Reason	Revised by
ToC_v1.0	27.11.2018	Deliverable structure	All partners
ToC_v1.0	04.12.2018	Deliverable structure	All partners
0.1	04.01.2019	1st version of the document	CERTH
0.2	11.01.2019	2nd version of the document	CERTH
0.3	15.01.2019	Pre-Final Version	CERTH
0.4	15.01.2019	Final Version	CERTH

Author list

Organization	Name	Contact Information
HRT	Iosif Vourvachis	projects@hrt.org.gr
HRT	Lorentzo Nerantzis	l.nerantzis@hrt.org.gr
HRT	Miltiadis Meliadis	m.meliadis@hrt.org.gr
HRT	Odysseas Spyroglou	ospyroglou@hrt.org.gr
HRT	Ioanna-Eleni Voudouri	elvoudouri@gmail.com
FBBR	Sefik Muhic	sefmu@fbbr.dk
UPF	Gerard Casamayor	gerard.casamayor@upf.edu
AAWA	Matteo Bisaglia	matteo.bisaglia@distrettoalpiorientali.it
AAWA	Francesca Lombardo	francesca.lombardo@distrettoalpiorientali.it
CERTH	Anastasios Karakostas	akarakos@iti.gr
CERTH	Stefanos Vrochidis	stefanos@iti.gr

Executive Summary

This deliverable is the 2nd 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 already taken or scheduled to take place during the 24 months of the project and until its end.

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 an analysis of the Communication and Dissemination plan is presented with an overview and of its objectives and the means that will be used in order to achieve those goals. A summary of the activities that have been carried out until M24 is mentioned since those activities are either mentioned in the next section of the deliverable or in other deliverables (e.g. D8.5, D8.6, etc.). Furthermore, the lessons learnt until M24 and the corrective actions that will need to be taken and embedded in the future actions are presented, along with all planned activities for the 3rd and final year of the project's lifecycle in order to maximize exposure and visibility of the project.

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 current status is reported against its 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))
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

Table of Contents

List of Figures

List of Tables

1 Introduction

This document presents the overall Dissemination and Communication Strategy of the beAWARE project, outlining the ways in which the project partners will disseminate and communicate with different audiences and public. This strategy is, therefore, the core of all the activities that will be implemented towards relevant stakeholders and interested parties. The activities that will be used in order to carry out the Dissemination and Communication Strategy will be, but not limited to:

- 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 is 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) provides a strategic guidance for the communication and dissemination of the various components of the project, its activities, results, outputs and outcomes. Its purpose is to support the overall goal of beAWARE which is 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 the system offers an aggregated analysis of all incoming data in order to present to the end 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 lays 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 is to maximise the impact of the research and development actions through communication 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 are:

- To raise awareness, disseminate and promote the project's activities and results with online and off-line tools, networking, events and media and press work. 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, the outcomes of the beAWARE project should be seen as an improving of existing knowledge, skills and lessons learned in the area of the civil preparedness planning of the EU-countries on the one side, and the application of the latest technical and IT achievements on the other side. It means that the results of the beAWARE project with their unique integrative characteristic designed into the beAWARE system can be used in all stages of the civil preparedness planning, i.e. before, during and after an extraordinary incident such as forest fire, heatwave, and flooding, caused primarily by climate change. This will 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.

There must be stressed that many EU-countries base their civil preparedness planning on the sectors responsibility principle (for instance, Denmark) as well as a comprehensive preparedness planning approach putting in the focus areas such as platform for preparedness planning (risk assessment through risk-based dimensioning, risk and vulnerability analysis, GIS-applications etc.), planning and crisis management, prevention, training & education, exercises, and evaluation.

Moreover, there should be added the need for a permanent harmonizing of the preparedness planning at all levels of a society 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 recognized 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 EMS. beAWARE aims to develop an early warning system and a decision support system that will allow decision makers to effectively prevent and manage climate disasters, such as

floods, fires and heatwaves. The adoption of an emergency system as a support tool may depend on the approval of these authorities, so it is 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 will be greatly benefited from projects such as beAWARE, which develops sets of tools that will aid them from the initial phases, through the response phases, to the final phases of an event with multiple technologies and systems that will greatly advance their capability to improve the management of natural disasters. Furthermore, civil society organization can benefit from the beAWARE platform and it can organize and track the rescue teams and volunteers that will participate 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 be useful for insurances 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 the end users (e.g. Civil Protections). Therefore, also in this context, beAWARE can respond to a market need, impacting on market growth of the sector addressed, thanks to an overall improvement in market positioning, an increase in revenues, and a reduction of costs supported for damage restoration and/or 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 (despite they are not the only one). 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 will 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 will be given to formulate a tailored made strategy to approach policy-makers, government representatives and other officials in international and national bodies that shape and decide policies, programs and priorities to present beAWARE's platform capabilities and functionalities.

3 Communication and Dissemination Strategy

The section examines the overall dissemination and communication strategy of the beAWARE project that will help determine all planned communication and dissemination actions during the project lifetime in order to ensure an increase of the project efforts and results including the announcements of potential events where the project will be represented.

Specifically, the C&D plan explains:

- *What*?
  This represents what will be disseminated in the framework of the project. These can be summarized in the following:

  o The public deliverables of the project
  o The dissemination material (both online and offline) that will be produced during the lifetime of the project that will contain information about the project and its results
  o All activities that will be implemented and executed within the project and provide dissemination added value, such as the execution of the pilots, the carrying out of a workshop, etc.
  o The tools and the system that will be 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 that the development and implementation of the C&D plan has.

- *How*?
  The "How?" represents the methodology, the tools (both offline and online) and media that will be used in order to support and fulfil the objectives.

- *When*?
  This mainly represents the timing in which the project will perform the foreseen activities.

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

- To increase the level of awareness of the beAWARE results within the industrial community
- To share the technical and academically results of the beAWARE project with the scientific community
- To gather feedback from our Network of Interest (see D8.7), experts, scientists, researchers, first responders, crisis management, institutes potential customers and industry
- To promote the research and receive useful inputs from other scientists and communities
- To create a strong base for future partnerships, collaborations and information exchange between relevant communities
- To keep open and constant communication with other relevant stakeholders and Horizon 2020 projects
- To communicate and disseminate the platform functionalities and the outcomes of the pilot
- To explore further exploitation prospects of the results of the project after its lifetime

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

Table 1. Updated List of Meetings with Stakeholders

PERIOD	OBJECTIVE	APPROACH
1	AWARENESS ID TARGET AUDIENCE & NEEDS RECRUIT USERS	- Website development - Publication of support material, mass media. - Scientific papers to relevant journals and conferences. - Events with similar EU or national projects.
2	ACTIVE USER GROUPS TRAINING OF PILOT USERS	- 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	- 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 Communication & Dissemination (C&D) strategy of beAWARE is both internal and external, each of which 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 he 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 is now in its 3rd period as specified in the table above (Table 1), the consortium has now more to show and present to stakeholders and all relevant audiences. The platform is onwards on its 2nd version, therefore the level of the maturity of some tools is very high, if not finalized, and additionally the 1st pilot has been carried out. Furthermore, the implementation and execution of the 1st pilot 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 will also use all upcoming activities and pilots (*see section 3.3 Upcoming beAWARE C&D activities*) in order to ensure the strengthening of its C&D plan. The goal is 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 will use the following means of engagement and interaction with the public and stakeholders in order to increase its impact.

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

  Focused social media accounts, which have been created since the beginning of the project, are being 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 with 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 are and will be produced during the duration of the project.

Beside the wide use of beAWARE's social media accounts, special emphasis will be given to the enrollment approach and communication approach of relevant individuals, including the invitation to enroll to our Network of Interest list, in dedicated groups related to crisis management and civil protection.

Furthermore, other, more traditional media have been used and will continue to be used during the project's final year, such as press releases, production of flyers and factsheets, posters, brochures in order to promote the C&D plan.

- *Partners' network*

  The C&D plan will not only be based on the use of social media but will also enable the establishment of direct connection with relevant stakeholders. To accomplish that, all partners have and will continue to promote the project, its goals and its outcomes through their own network. The attempt is to widen the network of the project and to use existing channels that partners already have in place.

- *Network of Interest*

  In addition to what is mentioned in the previous paragraph, a focused Network of Interested (NoI) will be established to support the direct connection with relevant stakeholders and to engage them in the project activities throughout the duration on the project. During the last part of the project the consortium will aim 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. This will be done through questioners that the members of the NoI will be asked to fill regarding the use and the potential adaptation of a system like beAWARE. Furthermore, meetings will also take place in order to present the system and request feedback. 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, will also be used to support the C&D plan's execution. These events will enable the consortium to promote the project to wider and diverse audiences. In addition, they will offer the opportunity to share with the scientific community the knowledge gained and the

technological results of the project, as well as provide the ground for knowledge exchange and publications.

- *Pilots*

  A different and more or less "stand-alone" category of events are the three (3) foreseen pilots that will take place during the lifetime of the project. These pilots can and will be used to increase the visibility of the project through various ways. First of all, apart from testing the platform, they will be used for the demonstration of the system in real life situations to stakeholders and potential end users. Moreover, they will serve as a "marketing tool" to attract audience in the project. More specifically, since beAWARE platform is in its 1st to 2nd version and the development of its tools has progressed, thus the project has now more to show, attractive dissemination material of active use of the system, will be produced. This will be images and especially videos of the system's use that can be produced during the pilot execution and will be disseminated through the project's social media and will also be used in the webinars (*see below*) that will take place. Furthermore, since the pilots are based on the use of the system in specific scenarios which are formulated by real life use cases, it will provide a clear storyline in which the system will be tested and demonstrated. Therefore, it will provide the ground to stakeholders and potential end users to understand better its use in a real-life situation and demonstrate its added value along with the system's capabilities.

- *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 a Webinar is the live and open approach and the more intimate, closed and recorded meeting style it provides. Webinars 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 Webinars 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) Webinars (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 in members of the NoI list and stakeholder that were invited to participate through an open social media invitation.

3.1 Past beAWARE C&D activities

In order to support the above-mentioned C&D strategy, all consortium members, either as individual partners or as a consortium, have carried out a number of dissemination and communication activities. More specifically, a summary of these activities carried out until M24 of the project lifecycle is:

- Participation in 54 conferences and workshops (see
- Table 4)
- 31 Publications (see *Table 5*)
- Workshops/info-days. Until M24, two (2) workshops have been carried out:
  - In May 2017 in Venice, carried by AAWA
  - In November 2018 in Thessaloniki, HRT carried out the 2nd workshop in the day before the pilot. The workshop targeted the audience and participants of the pilot in order to present the project and also to be used as training for the players. More information on the workshop in presented in D2.10.

- 2 Webinars were carried out.

  - The 1st on the 8th of January 2019 in Greek, in order to present the Greek pilot to Greek stakeholders and Greek members of the NoI. For its implementation the WebEx platform was used and there were 15 participants.
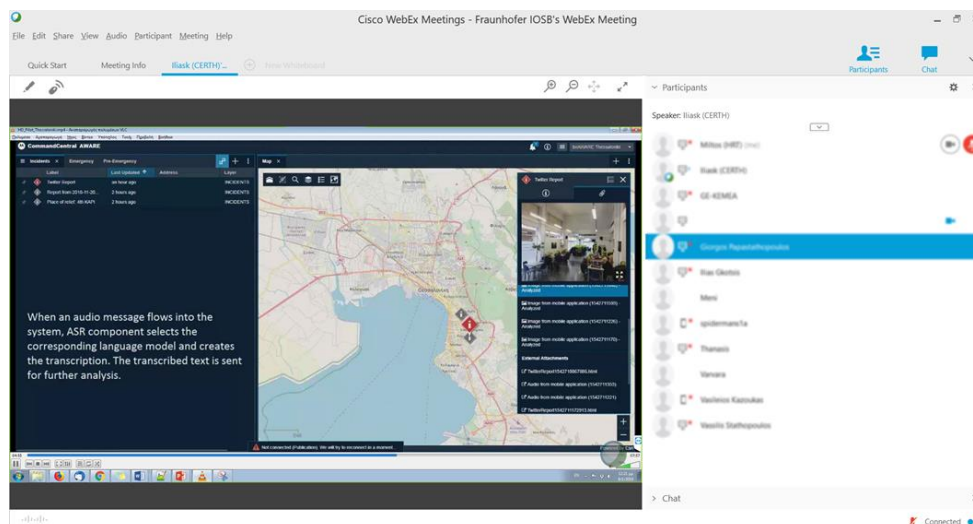
Figure 1: Image from the 1st Webinar

o   The 2nd on the 15th of January 2019 in English, in order to present the pilot a more international audience and relevant members of the NoI. For its implementation Zoom platform was used and there were 15 participants.
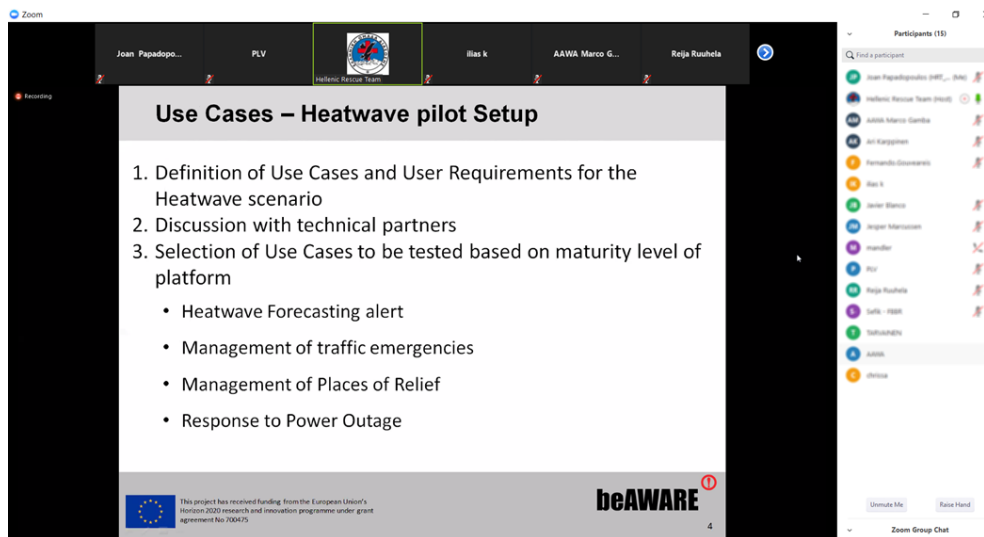
Figure 2: Image from the 2nd Webinar

Their main subject was the presentation of the results of the heatwave pilot that took place in Thessaloniki on 19-21 November 2018. Even though disseminated primarily among the Network of Interest contacts lists, these webinars were open to public audiences through an advertised registration process. Moreover, the webinars were strongly disseminated through the project's social media accounts and memberships in social media groups (*see below*) and also promoted by other projects, organizations as well. In total, 8 EU funded project, 2 organizations and 1 company promoted the webinar through their social media accounts.
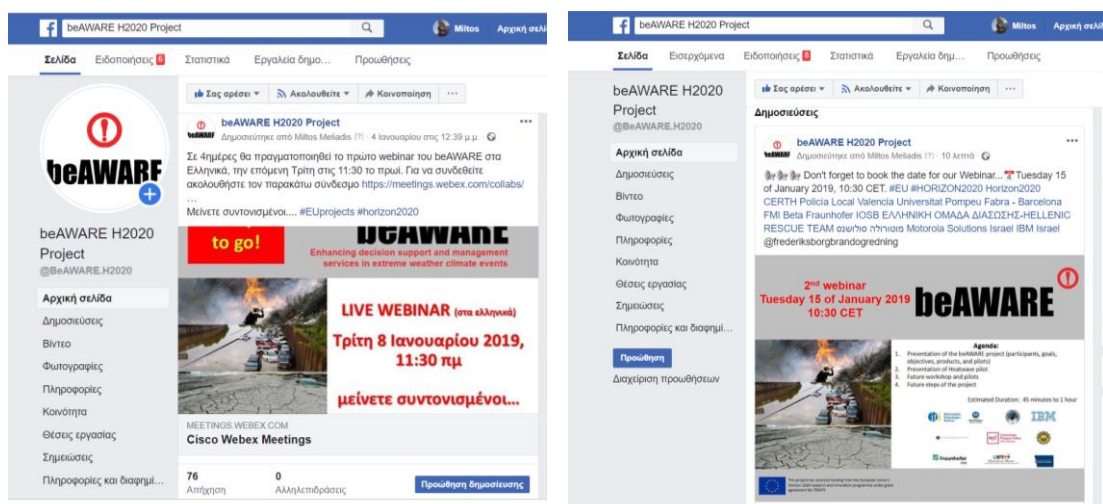
Figure 3: Facebook webinar announcements

Figure 4: Twitter webinar announcements

The webinars were titled, "The course and results of the H2020 beAWARE Heatwave Pilot", and were conducted by HRT and CERTH experts. During the sessions, the main parts of beAWARE as also of the pilot were presented giving special emphasis on the execution of the exercise as well as the comparison of the legacy tools used currently in crisis management with the real-time performance of the platform tools during an extensive heatwave as also the future steps of the project.

For both versions of the webinar, the presenters from HRT and CERTH were following an agreed a script. The presentation started in the beginning with a general presentation about the beAWARE project, introducing its concept, objectives, goals, the platform, the application, the members of the consortium, what has been achieved so far, and future goals.

During the second part of the first presentation, performed by CERTH, the webinar attendances had the opportunity to watch a video with a more detailed presentation of the beAWARE platform and more specifically, the PSAP and the mobile application. The components and tools of the PSAP were further analyzed with examples and pictures of the video and image analysis components, the real-time monitoring and crisis classification, the layout of the PSAP main screen and other functionalities of the platform.

The second presentation focused on the first heatwave pilot, which took place on the 19-20 of November 2018 in Thessaloniki, Greece at HRT headquarters. The pilot gave the opportunity to test the majority of beAWARE platform functionalities in real-cases scenarios, with the participation of consortium partners, civil protection authorities, rescue organisations and citizens.

More analytically, in the second presentation of the Webinar, the whole course of the pilot execution was shown step-by-step, along with the entire area of the pilot

execution for the 3 sessions, the storyline of the pilot, the legacy tools, the real-time performed of beAWARE platform and application, and overall the results and outcomes of the pilot.

In the last section, the floor was opened to the participants to raise any questions in order to provide further clarifications regarding the project, the pilot and the platform system.

Similar webinars will also take place after the execution of the other two pilots in Vicenza and in Valencia.

- Enrolment in relevant social media groups

In order to promote further the project's scope and activities, the project has become member of various groups that are in the same domain as beAWARE. beAWARE's presence in these groups is two-fold; one the one hand to promote and disseminate the project's activities and results and on the other to attract new members to the NoI, as mentioned in D8.8. Until M24, the project has enrolled in 5 LinkedIn groups and intends to continue its participation in other as well. A list of the groups that beAWARE is currently part of is as follows:

- o Emergency Management Networking

- o Emergency Management Chief (Fire/ EMS) Group

- o Disaster & Emergency Management

- o Institute of Civil Protection and Emergency Management

- o European Civil Protection unofficial network - EUCP

- o Search and Rescue (SAR) – *enrolment verification pending*

- o Professionals in Emergency Management – *enrolment verification pending*

- o Fire & Rescue Magazine group – *enrolment verification pending*

Furthermore, the groups that the project is represented were also used to promote the aforementioned webinars.
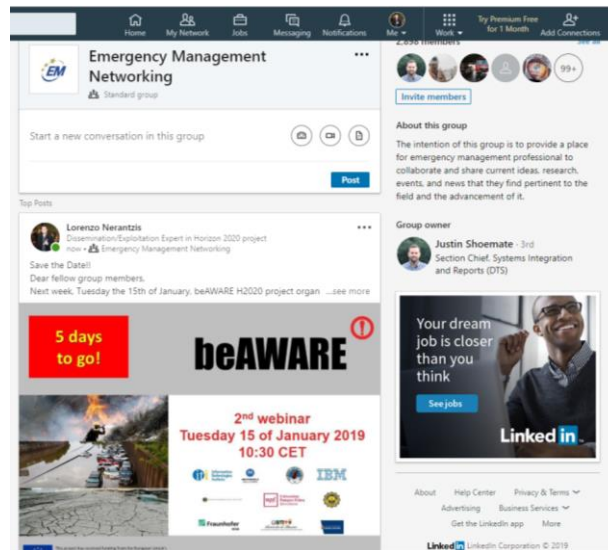
Figure 5: Announcement of the beAWARE webinar in a LinkedIn group

Moreover, in order to support the above mentioned goals of the C&D plan, the project has continued the development and production of various dissemination materials, the report on which will be in D8.6 (M30). An indicative summary of this material until the submission of the current deliverable is presented in the list below:

- 4 Newsletters (until M24) that contain news about the development and general progress of the project and its developed tools, project activities that have taken place as well as news in the relative domain as the project (management of events caused by extreme weather conditions).
- Production of 5 videos that have been posted on the project's website and dedicated YouTube channel
- Production of dissemination material such as posters, flyers etc.
- Social media posts in the project's dedicated accounts and press releases to disseminate project progress, activities and promote its scope.

3.2   **Lessons learnt**

By M24 and especially after project review and the comments of the reviewers, there is substantial feedback to evaluate what is on the right track and in which areas the project is required to make adjustments and needs to enhance its actions. Thus, some new interim goals have been defined in order to increase the efficiency and effectiveness of the C&D plan.

First, the consortium will aim to increase and enhance all partners' engagement in the implementation of the C&D plan and their involvement in all C&D activities. All partners, to the extent it is feasible, will aim to promote the project and its developments in their own network and attempt to increase the level of participation of various stakeholders.

Furthermore, all partners will continue to participate or organise events in order to increase the exposure of the project, as it is being done until today.

Second, the project will aim to increase NoI's engagement. The members of the NoI originate from various organisations and institutions and therefore can offer substantial knowledge in the implementation of the C&D plan and even support it more actively by being part of it by disseminating and promoting the project in their own network.

Third, social media interaction and activities need to become more intense. There is a need to engage all partners as well as members of the NoI to that in order to increase the traffic on the project's social profile. Moreover, the foreseen semi-annual newsletter will become more frequent since the implementation of the pilots will offer significant material to promote and disseminate in order to increase the exposure of the project and its results. Additionally, since the project has now more to show and videos will be produced during the implementation of the pilots, a YouTube channel has been created in order to increase exposure by providing a demonstration of the system in a wider audience.

3.3   Upcoming beAWARE C&D activities

As already mentioned, the project has entered its third and final year of its lifecycle. However, this will be the period when the project needs to be more extrovert in order to widen its audience for its results. The outcomes will be more concrete and the consortium will have more to show and demonstrate. Therefore, various communication and dissemination activities will take place in order to support the relative plan and its goals, all of which will aim to increase the project's impact and demonstrate its developments.

More specifically, a summary of those foreseen activities is presented below.

- At least two (2) more webinars will take place after the execution of the pilots in order to present their results to the NoI. However, the invitation to participate in the webinars will be distributed to other stakeholders as well. Their implementation will be done by the partner hosting the pilot and in both local and English language, in order to involve as much of a local audience as possible.
- Distribution and publication of newsletters, at least two (2) more, as foreseen in the DoA. However, the goal will be to distribute and publish more than those foreseen in order to disseminate the results of the upcoming pilots.
- Implementation of local workshops/info-days.
  - A workshop will be held by FBBR at Greater Copenhagen Fire & Rescue Emergency and Dispatch Centre in Copenhagen on the 29th of January 2019, in order to present the project into Scandinavian stakeholders, representatives from various local authorities and potential end users. Furthermore, external experts will be invited to make presentations and discussions will take place in

the domain of management of events caused by extreme weather conditions. In the aforementioned location of the workshop, a Command and Control room is also located there, as shown in fig. 1 and fig. 2 below, providing the opportunity to address the most suitable audience since the people that will be there will be the ones that will actually operate a system like beAWARE in real life, thus providing valuable input for the evaluation, the development and actual exploitation of the project.
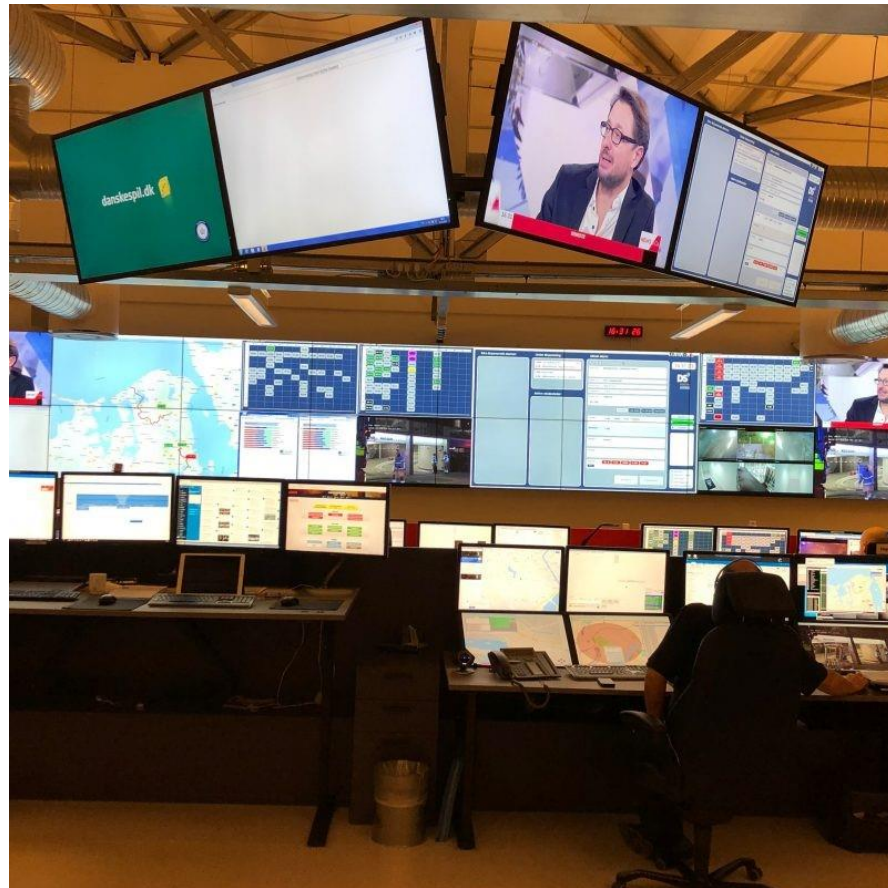
Figure 6. Greater Copenhagen Fire & Rescue Emergency and Dispatch Centre

Figure 7. Greater Copenhagen Fire & Rescue Emergency and Dispatch Centre.

- o A workshop held by AAWA, which will take place in the days before the pilot for the training of the Vicenza pilot participants and observers on the 5th of March 2019
- o A workshop held by HRT, which is foreseen to take place in October 2019 and to present the project, its results and its developed tools to citizens.
- o A workshop held by PLV, which will take place in the days before the pilot for the training of the Vicenza pilot participants and observers in November 2019.

- A pan European workshop which will take place during ISCRAM 2019, which is held in Valencia. Therefore, with the cooperation and support of the local partner, PLV, the project will attempt to "take advantage" of the international environment of the project and involve as many stakeholders as possible in order to present the latest version of the beAWARE system and its tools.
- Execution of the 2nd pilot in Vicenza by AAWA in March 2019. All the details for the pilot are presented in D2.10.

- Execution of the 3rd and final pilot in Valencia by PLV in November 2019, in order to test the final version of the beAWARE system and perform its final evaluation and demonstration.

Summing up, the upcoming implementation period of the project, as already mentioned, is the period when the two remaining pilots will take place, which will test and demonstrate the second and the final version of the system. Both pilots and the activities that will take place to prepare and execute them will be used to increase the visibility of the project and attract a bigger and wider audience. Moreover, various kinds of dissemination materials will be produced that will allow further dissemination of the project.

Furthermore, in order to enhance the implementation of the C&D plan, the dedicated account and group that has been created on LinkedIn will also be a member of other groups in the relative domain to attract more stakeholders and to communicate the project in a wider but more professional audience. Additionally, the goal will be to increase the participants in the NoI on the one hand and on the other to enhance NoI's engagement in the project. This will allow to involve its members in the exploitation research that is being carried out as well as the dissemination of the project's results.

In order to increase the project's visibility, a dedicated YouTube channel has been created in order to show and promote all the videos that have been and will be produced in the duration of the project and especially those that will be created for the pilots. This will also allow demonstrating more vividly the project and the capabilities of the developed system to audiences that were not present during the pilots' execution.

Finally, all partners will enhance their engagement in the dissemination of the project's results by e.g. increasing its promotion through social media, participate in social media campaigns, issuing press releases etc.

4 Communication and Dissemination Activities Report

In this section all the activities that have taken place since the beginning of the project and that are related with the dissemination and communication of beAWARE project and platform will be presented.

4.1 Meetings with Stakeholders and User Groups

In order to record and report all meetings that beAWARE partners have done with stakeholders and user groups, a corresponding table has been created and uploaded to the wiki. The goal of those meetings is 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	Feb 2017	Thessaloniki, GR	Stakeholder	HRT	Presentation of the project and securing their

#	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
	National Meteorological Service					involvement and participation in the user requirements
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	September 2017	Stockholm Sweden	Stakeholder	FBBR	Presentation of the project and

#	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
	coordinator at the Council of Baltic See Secretary in Stockholm					securing their interest project
9.	Presentation of the project for the Lead partner in HEIMDALL project	October 2017	Athens Greece	Stakeholder	FBBR	Presentation of the project and securing their interest project
10.	Presentation of the project for New Zeeland Fire Service	November 2017	Christchurch New Zeeland	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.	Training days	From Sept. 2018 to Feb. 2019	Vicenza, IT	Civil Protection, Municipality	AAWA with support	Information and training for the planning of first

#	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
				of Vicenza, citizen	of the other beAWARE partners	exercitation (Feb. 2019)
15.	Meeting with schoolchildren	Oct. 2018	Vicenza, IT	citizens and schoolchildren	AAWA	information about the project issues and proposal of participation at the first exercitation
16.	FBBR the 6 municipalities	Jul. Aug., Sep., Oct., Nov., Dec. 2018	FBBR	Municipality Authorities	FBBR	Very important
17.	Danish Emergency Management Agency (DEMA)	Sep. 2018	FBBR	Authority at national level	FBBR	Very important
18.	Danish preparedness Organization	Oct. 2018		Regional organizations	FBBR	Important
19.	End-users	Sep. 2018	FBBR Municipalities	Municipality level	FBBR	Important
20.	Meeting with new mayor of Vicenza Municipality	6th 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
21.	Informal meeting with delegates of the Vicenza Municipality, AIM Multy Utility, "Alta Pianura Veneta" Land reclamation	26th of November 2018	Vicenza, IT	Vicenza Municipality, AIM Multy Utility, "Alta Pianura Veneta" Land reclamation	AAWA, CERTH, IBM	Survey in view of the pilot, planning of the pilot, inspect the available equipment, discuss about the

#	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
	consortium			consortium		current emergency management protocol and how it can benefit from the beAWARE platform.
22.	Meeting	14th 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)
23.	Cartographic section of the Engineering Department (UPV)	7th November 2018	Local Police Headquarters	Security researchers and Local Police.	PLV	Dissemination of the beAWARE project and collaboration with the firefighter's use case.
24.	Polytechnic University of Valencia (UPV)	20th December 2018	Local Police Headquarters	Security researchers and Local Police.	PLV	Dissemination of the beAWARE project.
25.	Valencia Firefighters	21st December 2018	Firefighters Headquarters	Practitioners	PLV	Internal meeting in order to prepare the firefighter's use case.

#	WHO	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
26.	Training info days	February 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)

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 carried out a common workshop with iREACT and ANYWHERE during ISCRAM 2018 and furthermore, there is active support in social media, such as forwarding and retweeting news and posts with iREACT.

Additionally, during 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 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 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. Furthermore, a communication channel was established between the two projects who shares a common mission of promoting a pan-European Crisis Management culture

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.

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 environment ministries.	EU	https://www.eionet.europa.eu/about/
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

Title	Objective	Country	Website
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 at national and regional scales. 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.	EU	https://emergency.copernicus.eu/ http://effis.jrc.ec.europa.eu/
EFAS and GloFAS	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. 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 (medium-range lead time, probabilistic, river basin wide, flash flood indicators etc.) flood forecast products.	EU	https://emergency.copernicus.eu/ https://www.efas.eu/ http://www.globalfloods.eu/

Title	Objective	Country	Website
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 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.	EU	https://www.weobserve.eu/

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	PARTN ER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
1.	SRS Security Conference Bilbao	Security and Safety Internationa l 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"	Internationa l 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
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

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTN ER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
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 Computer Vision domain	CERTH	Presentation of the CERTH systems for traffic monitoring
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	Sep 2017	Spain	Automatic	UPF	Presentation of the

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
	Conference on Natural Language Generation (INLG 2017)				Text generation Community		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
18.	DRIVER+	Project Workshop	26 Sep 2017	Eindhoven	Security Stakeholders	CERTH	Collaboration with DRIVER+ project
19.	DRIVER+	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

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
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 group, workshop with scientists of similar projects	18-19 Apr 2018	Weeze, Germany	Scientists, innovators, end users,	IOSB	Presentation of beAWARE project to end user community, discussion with representatives of 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	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

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
	Systems for Crisis Response (ISCRAM)						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 FFBR'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
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, AristiVillage, Greece	Scientists Researchers in Computer	CERTH	Detecting people and vehicles in danger from social media images in

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTN ER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
					Vision domain		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 (Euro Science 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.	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"
34.	The First Multilingual Surface	Workshop	19 Jul 2018	Melbourn e, Australia	Text generation community	UPF	Demonstration of the potential of the linguistic generator

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTN ER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
	Realisation Shared Task (SR'18): Overview and Evaluation Results						used to produce multilingual reports in a text generation competition
35.	European Meterological 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
36.	EnviroInfo 2018	Conference	05-07 Sep 2019	Garching, Germany	Scientific community	CERTH, IOSB	Presentation of project results to research community
37.	"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.
38.	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
39.	SafeKozani	Internationa l Confernce	Nov 2018	Kozani, Grece	End Users, Governmental Authorities,	HRT	Presentation of beAWARE project to community

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
					Policy makers, Scientific Community		
40.	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
41.	Valencia Canvia pel Clima	Workshop	06 Nov 2018	Valencia-City Council	Climate change researchers, practitioners and citizens.	PLV	Dissemination & awareness workshop about climate change.
42.	TRECVID 2018	Workshop	13-15 Nov 2018	Gaithersburg, MD, USA	Scientific community	CERTH	Successful participation to the challenge
43.	"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.
44.	"Police Drones 2018."	National meeting	21-22 Nov 2018	Valencia	Spanish LEAs.	PLV	The national meeting assembled over 120 participants.
45.	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
46.	Security Research Event (SRE) 2018	Annually meeting	05-06 Dec 2018	Brussels	Scientists Researchers from Industry	CERTH	Presentation of beAWARE project to community

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTNER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
					and Governmental organizations as well as knowledge institutions		
47.	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.
48.	"Meeting with the Slovenian Ministry of Interior."	Meeting	11 Dec 2018	Slovenia-Ministry of Internal Affairs	Policy makers.	PLV	Dissemination of the beAWARE project.
49.	"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).
50.	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 felt of Civil Protection and with focus on prevention regarding the targeted groups. FBBR gave EVAPREM participants a short

#	CONFERENCE/ EVENT TITLE	TYPE	DATE	PLACE	TARGET GROUP	PARTN ER	RELEVANCE TO PROJECT / YOUR OBJECTIVE
							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.
51.	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
52.	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
53.	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
54.	Empirical methods for Natural Language Processing Conference EMNLP 2019	Organizatio n 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

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 and Future Activities Plan

Activities report for dissemination and communication play a vital role for beAWARE project. Report on past activities and future plans will provide to the members of the consortium the ability to track, monitor and create a complete picture on how the partners inform about beAWARE, in conferences, papers, workshops, formal and informal meetings.

Moreover, it is well known that a good communication strategy will provide 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 first 24 months of the project as well as their known planned activities and future steps for the upcoming period is presented below.

4.4.1 Past Activities

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.

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

UPF

In the reporting period, UPF-TALN participated to two international conferences with publications related to Natural Language Generation (T5.4). First, in July, UPF-TALN organized the first Workshop on Multilingual Surface Realization, held at ACL 2018 in Melbourne (Australia), where Simon Mille presented the Overview and Results paper for the 2018 Surface Realization Shared Task (SRST'18), in which the input structures provided to the participants have been produced automatically using the beAWARE analysis pipeline. Second, in November, Simon Mille and Aleksander Shvets presented two papers at the INLG'18 conference in Tilburg (The Netherlands), one on the automatic production of a dataset for training Natural Language Generation systems, derived from the Universal Dependency 2.0 treebank (and used in the SRST'18), and the other one reporting on a novel algorithm for sentence packaging for NLG, that is, for grouping information to be rendered as individual sentences by a generation system.

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 presentedthe 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 NoI, 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

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.

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.

AAWA also presented a scientific contribution about the beAWARE applications in the Vicenza Pilot area during the Italian National Hydraulic Conference, IDRA 2018 (September 12-14, 2018 in Ancona, Italy). As the main conference in Italy about hydraulic constructions, IDRA gathered together the main, national and international, scientific researchers, professionals in these fields and public administrations. The 2018 edition of IDRA focused on the responding to citizen needs about water management and hydraulic and hydrogeological risk management, so it was one of the most suitable contexts for presenting the beAWARE application to the Academic world.

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 Venuta" 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.

CERTH

CERTH in collaboration with other beAWARE partners organised the 1stInternational Workshop on Intelligent Crisis Management Technologies for climate events - ICMT in 15th Information Systems for Crisis Response and Management Conference (ISCRAM 2018), which took place on 20-23 May 2018 at Rochester NY, USA.

Furthermore, in the reporting period, CERTH participated into numerous of international conferences and workshops, namely *The Web Conference 2018, CVPRWAI City Challenge 2018, ICMT 2018, IEEE IVMSP 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.

Preliminary results of localization algorithm in machine vision included in the 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 to 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.

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.

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.

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.

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:

  o Firstly, an **internal meeting with the firefighters** took place in the **Valencia Firefighter's Headquarters** with the objective to prepare their use case.

  o 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.

4.4.2 Future Activities Plan

FBBR

FBBR will continue disseminating and communicating about the project to relevant other EU project meetings, throughout the organisation, relevant stakeholders, contacts, etc. This will be done trough newsletters, website, meetings, etc. Wherever it is relevant, and interest is shown, FBBR aims to disseminate the project and its progress. FBBR will continue to disseminate the beAWARE projects outcomes to the Civil Protection Organization (CPO) in the Balkan countries, namely to CPO in Bosnia Herzegovina, Serbia, FYROM, Montenegro, Albania. FBBR has signed a Letter of Cooperation with some partners in Bosnia Herzegovina and will try to promote and disseminate the beAWARE as a whole system as well as its outputs that can be used in case of an emergency situation in relation to fire-fires, flooding, and heatwave.

Finally, FBBR will present the beAWARE project to different parts such as the first responders on the municipal level, the representative from various municipal and regional institutions that deal with the risk management etc. at a workshop in Copenhagen planned for 29th-31th January 2019.

IOSB

Fraunhofer IOSB will submit two papers to the 16th International Conference on Information Systems for Crisis Response (ISCRAM) Conference upcoming at 19 - 22 May 2019 in Valencia, Spain.

IOSB submitted an article to the "International Journal of Information Systems for Crisis Response and Management" with the title "The backbone of decision support systems: the sensor to decision chain". The article is currently under review.

Fraunhofer IOSB is co-organizing an event in Hamburg planned for March 2019 about managing sensor data of German cities and municipalities for different applications, incl. crisis management.

UPF

Planned submissions include presenting publications to the following scientific events:

1. *Symposium on Applied Computing (SAC 2019): submitted paper on the linguistic generation system (Accepted)*

2. International Conference on Dependency Linguistics (DepLing 2019): will submit article on either text analysis or generation (to be defined).

3. Empirical Methods for Natural Language Processing (EMNLP 2019): will organize a shared task on text generation from deep linguistic representations such as those used in the report generation module of the beAWARE system (Accepted)

4. North American Chapter of the Association of Computational Linguistics (NAACL 2019): submitted paper on the evaluation of tools for semantic parsing (Submitted);

5. International Natural Language Generation conference (INLG 2019): will submit paper (call for papers not out yet)

HRT

HRT's future activities plan is to expand the Network of Interest, to contact and attempt to involve in the project more national and local authorities. More specifically, an Info-day will be planned in order to inform citizens in Thessaloniki about the beAWARE project, its goals and its tools for citizens. Furthermore, citizens will be invited to express the opinions, ideas

and problems they face in order to be noted. Also, a demonstration day in order to present the beAWARE platform to relevant stakeholders and potential end users will be carried out, however after the completion of the pilots.

Regarding the Network of Interest, HRT plans to hold another round of face-to-face meetings and will also search for new potential organizations and authorities that will be interested in technology and want to become members of the NoI. Last but not least, HRT plans to participate in events, conferences and related workshops in order to promote the beAWARE project among the search and rescue community.

AAWA

With the support from the other beAWARE partners, on March 2019 some training days will be organized in Vicenza, involving the authorities, first responders and citizens. These activities aim to inform and prepare the stakeholders for the second pilot exercise.

In February 2019, AAWA will participate in the Symposium on "Climate Change and Natural Hazards: coping with and managing hazards in the context of a changing climate" organized in Padua by the University of Padua, with a scientific contribution about some outcomes of the beAWARE on the theme "A new interoperable open platform for the analysis of earth observation data (EO data) to support flood risk management".

Finally, AAWA will provide a meeting with schoolchildren and citizens, in order to aware them about the project's issues and involve them in the field exercitation.

CERTH

CERTH will continue to disseminate the outcomes of the beAWARE project by participating to European and International workshops, conferences and other Climate-Related Crisis Management events. One of the main objectives will be the dissemination of the beAWARE project's results through further publications at international, well known journals.Some characteristic examples of planned future publications involve the evaluation of the adapted acoustic models and dictionaries used for Automatic Speech Recognition and the evaluation of the generated object detection models that will be used in drone analysis.

CERTH will continue to participate to the Multimedia Satellite task of MediaEval[1] benchmark initiative, analysing social media and testing their performance in disaster management applications (e.g. flood monitoring, road passability). CERTH will also examine novel data fusion mechanisms to combine weather data (provided by FMI) with social media

---

[1]http://www.multimediaeval.org/mediaeval2018/

information, targeting to a journal publication or presence at a prestigious conference in crisis management.

Towards to this direction, CERTH has already submitted a paper to the European Climate Change Adaptation conference (ECCA 2019) in Lisbon at 28–31 May 2018. The title of this work is: "*The Crisis Classification component to strengthen the early warning, risk assessment and decision support in extreme climate events*".

CERTH also plans to develop novel water segmentation, water level and water speed estimation from static surveillance cameras and monitor the state of specific rivers and their surroundings. The outcome of this research is going to be submitted as a paper in a security and surveillance conference, such as IEEE AVSS.

Further improvements are planned to be applied in people and vehicle detection from drone image data and be combine with a crisis segmentation mask (i.e. fire, flood) so as to analyze the Region of Interest (RoI) and define the crisis level. The outcome of this research is going to be submitted in relevant scientific and research conferences, such as IEEE ECCV VisDrone.

MSIL

During the 3rd year of the Project, MSIL will disseminate the Project within and outside the corporate network by leveraging the Motorola Solutions global presence. As part of the dissemination activities, MSIL will participate in events and tradeshows that will be organized by the Project partners and corporate colleagues. In addition, MSIL will continue assist in preparation of the Project related dissemination materials. The joint papers with CERTH and additional partners are expected to describe the outcomes of the beAWARE field trials.

IBM

IBM plans to continue with dissemination activities both inside the company and externally, geared towards the scientific community and possible end users. The participation in two upcoming beAWARE pilots (flood in Vicenza, and fire in Valencia), will serve as good opportunities and provide real-life material to augment the dissemination activities.

FMI

FMI further plans to participate in beAWARE-relevant conferences and events, as well as publish journal papers, particularly, (i) on evaluation of the use of HIRLAM-met data in AAWA flood forecasting model, joint with AAWA, and (ii) on case study on 2017 heatwave, joint with CERTH.

PLV

The Valencia Local Police (PLV) will participate in the **ISCRAM 2018** to disseminate the beAWARE project. This international conference will take place in Valencia.

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. Current publications of beAWARE members are listed below:

Table 5. Updated List of publications

No.	Title	Authors	Publication	Type
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
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),	Conference

No.	Title	Authors	Publication	Type
			2017	
5.	FORGe at WebNLG 2017	Mille, S., & Dasiopoulou, S.	Technical Report	N A
6.	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
7.	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
8.	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
9.	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
10.	The sensor to decision chain in crisis management.	Moßgraber, J., Hilbring, D., van der Schaaf, H., Hertweck, P., Kontopoulos, E., Mitzias, P., … &Kompatsiaris, I.	15th Information Systems for Crisis Response and Management Conference - ISCRAM 2018, Rochester NY, USA	Conference
11.	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

No.	Title	Authors	Publication	Type
12.	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
13.	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
14.	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
15.	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., Kompatisaris, I., Gialampoukidis, I., Andreadis, S.	EnviroInfo 2018, Garching, Germany	Conference
16.	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 Castro, Kim Lintrup, (2018)	EnviroInfo 2018, Garching, Germany	Conference
17.	A multimodal approach in estimating road passability through a flooded area using social media and satellite	Moumtzidou, A., Giannakeris, P., Andreadis, S., Mavropoulos, A., Meditskos, G., Gialampoukidis, I.,	MediaEval'18, 29-31 October 2018, Sophia Antipolis, France	Conference

No.	Title	Authors	Publication	Type
	images.	…&Kompatsiaris, I.		
18.	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
19.	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
20.	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
21.	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
22.	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
23.	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),	Conference

No.	Title	Authors	Publication	Type
			Venice, 27-30 November 2018	
24.	DRONES TO THE RESCUE – Bringing muscle to weather Crisis Management	Benny Mandler	Web	Blog post
25.	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
26.	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
27.	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
28.	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
29.	Using crowd source information for managing climate events through the use of modern mobile technology	Philipp Hertweck, Tobias Hellmund, Desirée Hilbring, Hylke van der Schaaf, Jürgen Moßgraber	Citizen Observatories for natural hazards and Water Management (COWM), Venice, 27-30 November 2018	Conference

No.	Title	Authors	Publication	Type
30.	"beAWARE: Enhancing Decision Support and Management Services in Extreme Weather Climate Events (**Poster**)"	Karakostas, Anastasios; Vrochidis, Stefanos; Kompatsiaris, Yiannis; Kantsepolsky, Boris; Moßgraber, Jürgen; Dasiopoulou, Stamatia; Mandler, Benjamin; Karppinen, Ari; Ferri, Michele; Vourvachis, Iosif; Castro, Carmen; Lintrup, Kim	ISCRAM 2018, 20.-24. Mai 2018, Rochester NY USA	Conference, Poster Session
31.	Providing meteorological data for emergency response in the beAware project	Karppinen A.[1], Tyuryakov S.[1], Wood 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	Abstracts of the 2nd International Conference on Citizen Observatories for Natural Hazards and Water Management Venice, 27-30 November 2018	Conference abstract

5 Current status of KPIs

In the revised version of the previous deliverable D8.1, a list of KPIs was presented. In this version an overview of the current 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 will act as a measurement tool for all activities of the beAWARE project. The figure below shows which KPIs have been indicated for the project.
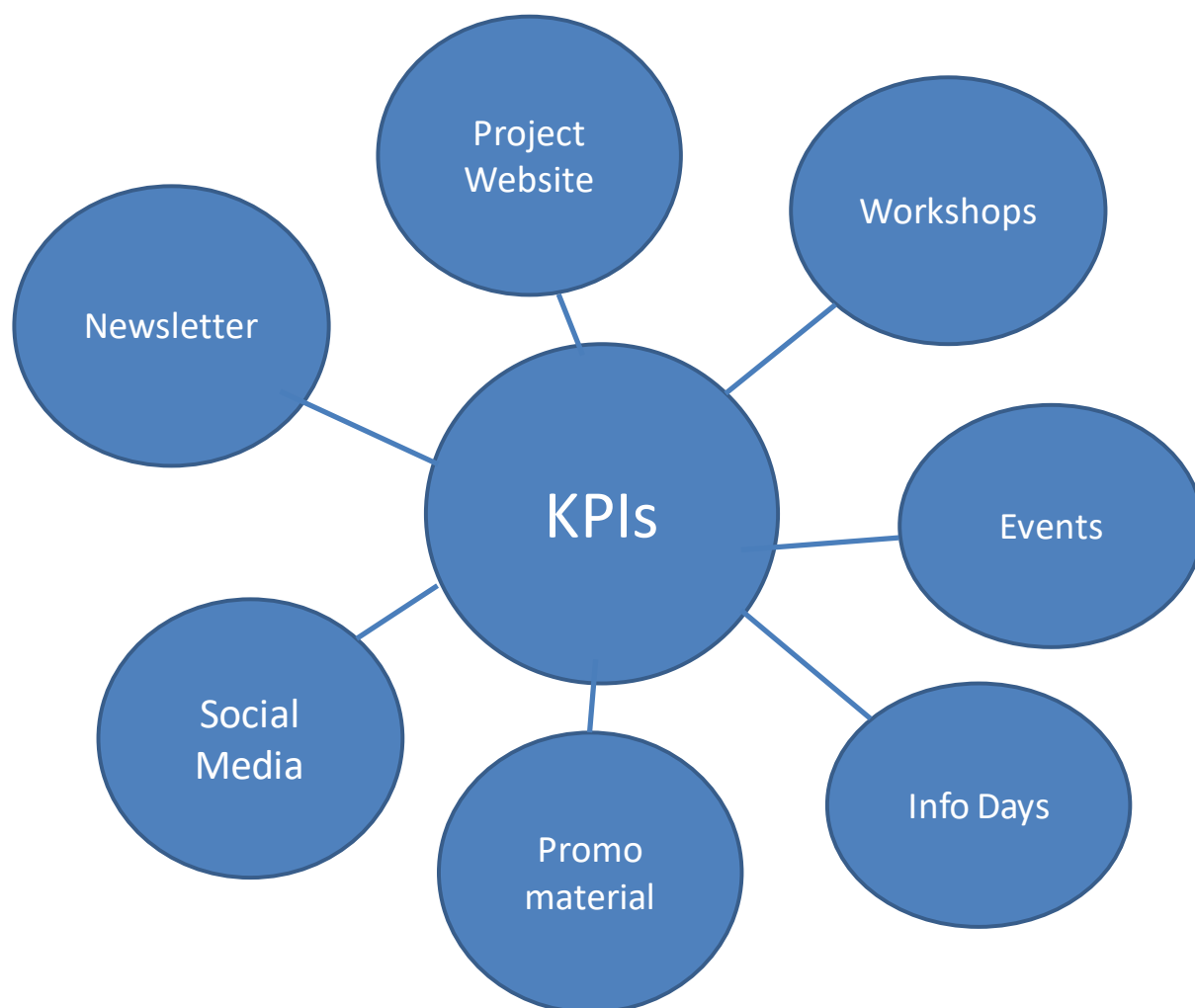

Figure 8. beAWARE KPIs.

5.1 **List of Key Performance indicators**

Table 6. List of KPIs – Currents Status

Channel	Description	Content	Source of information	KPI (End of Project)	Current 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	12.932 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	136 Twitter 169 Facebook 35 LinkedIn

Channel	Description	Content	Source of information	KPI (End of Project)	Current Status
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 NoI list.	All the project updates, news and participation in events and conferences	MailChimp Analytics Project website analytics	300 subscribers +	104 subscribers 1st newsletter: 33 opened (mail) 44 pageviews (site) Average time on page: 01:24 2nd newsletter: 31 opened (mail) 25 pageviews (site) Average time on page: 01:24 3rd newsletter: 28 opened (mail) 53 pageviews (site) Average time on page: 04:05 Total Pageviews in **news** section: 446 Average time on page: 01:21
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.	31 Publications

Channel	Description	Content	Source of information	KPI (End of Project)	Current Status
Promo Material	Project brochure, banner, poster, project presentation.	General project information	Downloads and number of printing material	300 Downloads[2] • Total Pageviews in Recourses page • Total Pageviews in deliverables page 3.000 items distribution	Total Pageviews in **Recourses** section: 452 Average time on page: 02:28 Total Pageviews in **deliverables** section: 608 Average time on page: 02:10 1.000 Flyers 50 factsheets 3 Posters 2 banners 4 videos
Events participation	Project presentation in a number of national and international conferences, fairs, seminars, workshops, etc.	General project information, publishable project results.	Attendance sheets, photo, announcement etc.	At least 5 participations	54 participations

---

[2] The material can also be viewed online

Channel	Description	Content	Source of information	KPI (End of Project)	Current Status
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	N.A. yet
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 activities of the pilots, while also training them on using the beAWARE platform.	Participation sheet, public announcement etc.	Three (3) info days will be arranged per pilot	One (1), during the Heatwave Pilot in Thessaloniki.

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 will also use the Project's website analytics to extract information such as:

- Number of pageviews

- Average time spent of a specific newsletter

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

Furthermore, based on the current status of the KPIs, the consortium needs to enhance its efforts to promote the interaction with relevant stakeholders and the newsletter that is produced with the project's news and updates. 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 are 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. Finally, it needs to be mentioned that an increase in the relative numbers is expected during the third and final year of the project, due to the pilot implementation and the general fact that the project will become more extrovert and visible in order to disseminate its results.

6 Conclusions

In this document an updated analysis of the target groups, the dissemination and communication strategy and the activities report has been presented along with the current 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 down that different types of target groups can give multiple and useful information, contribution and ideas for the beAWARE platform, within a large geographic and economic coverage, involving various stakeholders and interested organizations of different types and background, offering them at the same time different levels of involvement.

Furthermore, significant to technical and end users, is the cooperation with related 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.

Dissemination and communication strategy is crucial for the support of the exploitation plan of the platform to 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.

Finally, the activities reports, with coordinated and supported actions of all members of the consortium will contribute to the execution of the dissemination and communication strategy by providing a unified report and picture of activities made and those that are planned so that any weak points will be identified and corrective actions will be taken.

Summarizing, a sophisticated and methodological dissemination strategy, will explore correctly all the potential areas of interest in order to be more efficient, reliable and precise with the results that are goaled. Moreover, since the project enters its third and final year, it is crucial for all communication and dissemination activities to be enhanced to increase the visibility of the project and its interaction with stakeholders and potential end users. As also mentioned in other reports, a shift from a development and research orientation to an end users one is required since the project will focus on the testing and demonstration of the developed beAWARE system through the implementation and execution of the foreseen pilots. However, this will not only require the active involvement of the end users who are part of the consortium, but a coordinated and unified cooperation of all partners in order to secure the success of the aforementioned communication and dissemination strategy.