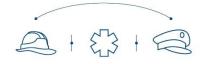
ASSISTANCE

Adapted situation awareneSS tools and tallored training curricula for increaSing capabiliTie and enhANcing the proteCtion of first respondErs



European Commission

Project co-funded by the European Union within the Horizon 2020 Programme



assistance

Project Ref. N°	ASSISTANCE H2020 - 832576
Start Date / Duration	May 1, 2019 (36 months)
Dissemination Level ¹	PU (Public)
Author / Organisation	Łukasiewicz Research Network – Przemysłowy Instytut Automatyki i Pomiarów PIAP

Deliverable D9.3

Mid-term Dissemination Report

31/10/2020

¹ PU: Public; PP: Restricted to other programme participants (including the EC services); RE: Restricted to a group specified by the Consortium (including the EC services); CO: Confidential, only for members of the Consortium (including the EC services).

ASSISTANCE

Nowadays different first responder (FR) organizations cooperate together to face large and complex disasters that in some cases can be amplified due to new threats such as climate change in case of natural disasters (e.g. larger and more frequent floods and wild fires, etc.) or the increase of radicalization in case of man-made disasters (e.g. arsonists that burn European forests, terrorist attacks coordinated across multiple European cities).

The impact of large disasters like these could have disastrous consequences for the European Member States and affect social well-being on a global level. Each type of FR organization (e.g. medical emergency services, fire and rescue services, law enforcement teams, civil protection professionals, etc.) that mitigate these kinds of events are exposed to unexpected dangers and new threats that can severely affect their personal safety.

ASSISTANCE proposes a holistic solution that will adapt a well-tested situation awareness (SA) application as the core of a wider SA platform. The new ASSISTANCE platform is capable of offering different configuration modes for providing the tailored information needed by each FR organization while they work together to mitigate the disaster (e.g. real time video and resources location for firefighters, evacuation route status for emergency health services and so on).

With this solution ASSISTANCE will enhance the SA of the responding organisations during their mitigation activities through the integration of new paradigms, tools and technologies (e.g. drones/robots equipped with a range of sensors, robust communications capabilities, etc.) with the main objective of increasing both their protection and their efficiency.

ASSISTANCE will also improve the skills and capabilities of the FRs through the establishment of a European advanced training network that will provide tailored training based on new learning approaches (e.g. virtual, mixed and/or augmented reality) adapted to each type of FR organizational need and the possibility of sharing virtual training environments, exchanging experiences and actuation procedures.

ASSISTANCE is funded by the Horizon 2020 Programme of the European Commission, in the topic of Critical Infrastructure Protection, grant agreement 832576.

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Executive Summary

The purpose of this document is to summarise all the dissemination and communication activities performed by the ASSISTANCE consortium in the first 18 months of the project duration. It has been prepared by the Łukasiewicz Research Network – Przemysłowy Instytut Automatyki i Pomiarów PIAP (ŁUKASIEWICZ-PIAP) basing on the inputs from all project partners.

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Change control datasheet

Version	Changes	Chapters	Pages	Date
0.1	First draft	All	25	16/10/20
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1.0	Final version	All	30	30/10/20

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Acronyms

ASSISTANCE	Adapted situation awareneSS tools and tallored training curricula for increaSing capabiliTie and enhANcing the proteCtion of first respondErs				
PC	Project Coordinator				
D#.#	Deliverable number #.# (D1.1 deliverable 1 of work package 1)				
DoA	Description of Action of the project				
EC	European Commission				
EU	European Union				
GA	Grant Agreement				
H2020	Horizon 2020 Programme for Research and Innovation				
IPR	Intellectual Property Rights				
M#	#th month of the project (M1=May 2017)				
WP	Work Package				
PSC	Project Steering Committee				
PIC	Project Implementation Committee				
PSB	Project Security Board				
AB	Advisory Board				
TL	Task Leader				
WPL	Work Package Leader				
CMS	Content Management System				

1. Introduction

The dissemination and communication activities in ASSISTANCE project are executed under the WP9 Exploitation and dissemination within the Task 9.2 Dissemination and Communication of Project Results, which role is to update and implement the dissemination plan for communicating and promoting the project and its findings. Deliverable D9.3 is aimed at summarising all the dissemination and communication activities performed by the ASSISTANCE consortium in the first 18 months of the project duration as well as to indicate future prospects for these activities in the next reporting period. The deliverable is closely related to deliverable D9.2 Updated Exploitation and Dissemination plan, which has been submitted in M12.

2. Communication and Dissemination Strategy

ASSISTANCE communication and dissemination strategy has been developed with an aim to maximise the expected impacts of the project, in particular the ones related to creation of new knowledge, methodologies and technological advancements as well as provision of best practices and policy recommendations encompassing consideration of societal and ethical implications of project results.

In order to meet these goals the communication and dissemination efforts have been structured around the key objectives and the target groups in the wider community who must be influenced to achieve those objectives.

Project results are disseminated through different channels among various audiences in order to raise the awareness of the project related issues, in particular its assumptions, progress and achieved results. While having an aim to popularise the project on as wide scale as possible, the ASSISTANCE dissemination activities are focused on specific target groups that are directly concerned by the project results.

The first and the foremost group targeted in the communication and dissemination efforts are the **End-users** – various First Responders organisations, ie. Medical Emergency services, Firefighters, Law Enforcement Agencies, Civil Protection, etc. Their acknowledgement and acceptance of the ASSISTANCE results is the most important factor for project's successful execution and potential adoption of its results. It can also open new channels of positive perception of the project in other environments.

Other important stakeholder groups which need to be kept constantly updated on the project achievements and engaged in different stages of the implementation also via targeted communication and dissemination actions are:

• Local authorities & national/regional public bodies,

- Public security agencies,
- Private security companies,
- Policy makers, legislative framework creation bodies,
- Standardisation bodies.

Another very important target group is **the scientific/technological professional community**, as the new knowledge gained in ASSISTANCE should not only benefit the consortium partners but also a wider community of experts in the related fields. Therefore, the activities aimed at proliferation of research results generated by the project also among other researchers and engineers working on relevant R&D domains are also undertaken, including submission of research papers to journals and conferences as well as liaison with other security research projects and publication of the deliverables developed as public via the project website.

Finally, one of the very important project stakeholders is the **European society/general public.** It is a responsibility of the researchers, as practitioners, to ensure that the EU community is engaged as widely as possible and constantly informed about investments in security R&D, ongoing research works, project concepts and resulting technologies as well as their benefits to society which can share the decisions about how this technology should fit into European societal and political roadmaps.

According to the needs and interests of the different target groups and stakeholders different communication and dissemination tools are used in ASSISTANCE:

- building the ASSISTANCE User Community,
- creation of the professional visual identity for the project,
- establishment of the project public website and social media accounts,
- preparation of the advertising materials (project leaflet and poster/roll-up),
- an annual publication of the project newsletter,
- release of the project dissemination video,
- organisation of/participation in congresses, workshops, symposia, conferences and exhibition fairs,
- dialogue with policy makers, stakeholders, citizen's associations,
- research papers (including Open Access),
- development of training material,
- media-related actions (press releases, interviews) when appropriate.

Summary of activities implementing the communication and dissemination strategy undertaken by the ASSISTANCE consortium in the first 18 months of the project execution is included in the next sub-chapters.

2.1. ASSISTANCE User Community

ASSISTANCE efforts to establish a broad dialogue with End-users that will enable collection of expectations and existing practices as well as opening of many communication and dissemination channels and creation of large awareness are strongly fostered by strong representation of the end-users organisations in the project – there are 7 end user partners in the ASSISTANCE consortium. This process has been further expanded by implementation of **Task 1.3 End Users Group Coordination** coordinated by AAHD as well as engagement of different project partners in external initiatives, such as e.g. Community of Users (CoU), International Forum to Advance First Responder Innovation (IFAFRI), ISO/TC92 Fire Safety: Subcommittees SC3 Fire threat to people and environment and SC4 Fire Safety Engineering, EUROCAE WG-105 on Unmanned Aircraft Systems, etc. Moreover, the end user partners in other H2020 security projects in collaboration with ASSISTANCE are invited and encouraged to join the group. The Letter of Intent for participation in the Group has also been published in the project website along with the general invitation directed to interested stakeholders.

Currently, the End Users Group includes the following organisations:

- Mälardalens Brand- och Räddningsförbund, Sweden
- Södra Älvsborgs Räddningstjänstförbund, Sweden
- Swedish Civil Contingencies Agency
- Turkish LEA
- Izmir Fire Fighter Department, Turkey
- Izmir Tepecik Training and Research Hospital, Turkey
- Izmir Provincial Health Directory, Turkey
- Ankara Provincial Health Directory, Turkey
- Ochotnicza Straż Pożarna w Niemcach, Poland

Another Polish end user entity – Police Academy in Szczytno has been invited and expressed initial interest in joining the ASSISTANCE End user Group – currently proceeding the LoI signature through internal procedures.

In addition, AAHD is involved in clustering activities for First Responders organisations from other H2020-SEC-DRS-02 projects:

- ResponDrone Novel Integrated Solution of Operating a Fleet of Drones with Multiple Synchronized Missions for Disaster Responses' (DRS-02-2018)
- FASTER First responder Advanced technologies for Safe and efficienT Emergency Response (DRS-02-2018)
- CURSOR Coordinated Use of miniaturized Robotic equipment and advanced Sensors for search and rescue OpeRations (DRS-02-2018)

- INGENIOUS The First Responder (FR) of the Future: a Next Generation Integrated Toolkit (NGIT) for Collaborative Response, increasing protection and augmenting operational capacity' (DRS-02-2018)
- RESPOND-A Next-generation equipment tools and mission-critical strategies for First Responders (DRS-02-2019)
- SIXTHSENSE Smart integrated extreme environment health monitor with sensory feedback for enhanced situation awareness (DRS-02-2019)
- INTREPID Intelligent Toolkit for Reconnaissance and assessmEnt in Perilous Incidents (DRS-02-2019)
- PathoCERT Pathogen Contamination Emergency Response Technologies (DRS-02-2019)
- Search and Rescue Search and Rescue: Emerging technologies for the Early location of Entrapped victims under Collapsed Structures and Advanced Wearables for risk assessment and First Responders Safety in SAR operations (DRS-02-2019)

2.2. Communication and Dissemination materials

In order ensure that the project and its results are communicated with a coherent and interesting message and presented in an attractive way for various audiences, a set of dissemination materials has been developed and made available to all partners as well as publicly (online). An overview of these materials is included in the following sub-chapters.

2.2.1. Visual identity

ASSISTANCE visual identity has been developed by the Task 9.2 leader using professional graphic design services. Its primary element is the project logo (Fig. 1) that has been chosen to symbolically reflect the main project purpose/motivation: **to help and protect different kinds of first responders that work together** (during the mitigation of large disasters). The design patterns and colour scheme of the logo was the reference for other graphic elements used for dissemination materials (e.g. external/internal presentation template, Fig. 2) and it was aligned with the selected design/template of the project website.



assistance Figure 1 ASSISTANCE logo



Figure 2 ASSISTANCE external and internal presentation template (opening slides and basic content slide)

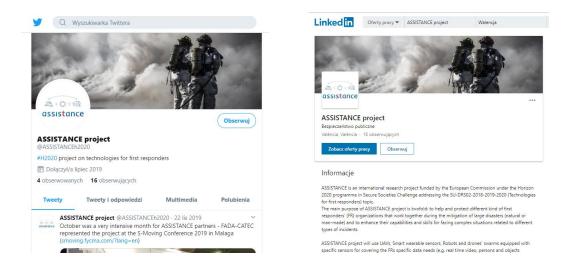
2.2.2. Webpage and social media

<u>ASSISTANCE project public website</u> has been launched in M03 and it is described in detail in deliverable D9.1. It includes general information about the project, its partners, progress and the crucial project results and achievements, including all the public deliverables, project-related publications, brochures, presentations and any other material, which may be generally distributed (Fig. 3). The structure and content of the webpage is constantly updated to adjust to evolving dissemination activities, e.ge.g. recently one of the project website sub-pages has been devoted to the H2020 security projects that ASSISTANCE is collaborating with. In addition, project social media accounts have been launched (<u>Twitter, LinkedIn</u>) and are administered by the Task 9.2 Leader (basing on inputs from all partners) that include updates about the most important news and events related to the project (Fig. 4).

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Figure 3 ASSISTANCE public website (home page)





2.2.3. Leaflet, poster and general project presentation

In order to support communication and dissemination efforts of all partners, advertising materials of a high quality and in a standardised format have been prepared (Fig. 5), i.e. project leaflet, poster, roll-up (including versions for self-print and professional print outs) to be distributed/used at meetings and events as well as the general project presentation (Fig. 6 and attached as Appendix 1) that contains the main facts and figures about the project and explains its main objectives and assumptions. It can be used by all partners to prepare individual presentations for different occasions. The print-out versions of the leaflet and roll-up are available at the Task 9.2 Leader premises (to be send by courier) – the leaflets have been prepared to be distributed in a number of copies to each partner, but the SARS-COV-19 outbreak at the beginning of 2020 has disturbed and suspended the dispatch.

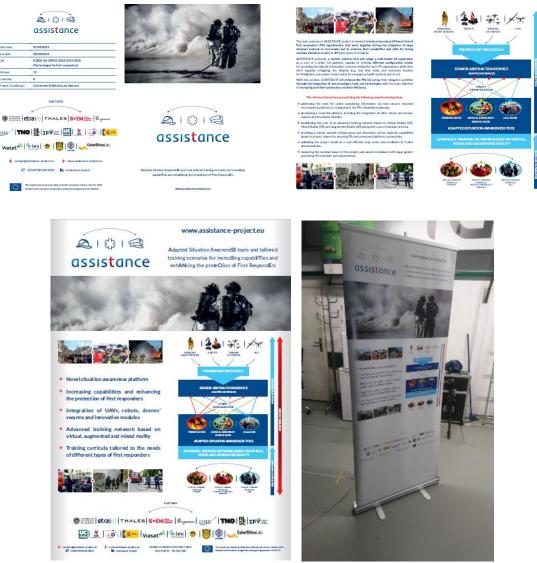


Figure 5 ASSISTANCE leaflet (outer and inner pages), poster and roll up



Figure 6 ASSISTANCE general presentation (3 first slides)

2.2.4. Dissemination video

To illustrate the scientific and practical benefits resulting straight from the outcomes of the project and enhance the attractiveness of the message a dissemination video explaining project objectives and goals has been prepared by the Task 9.2 leader using professional movies production services. The dissemination video has been provided in various digital formats (MP4, AVI, MOV, MPEG, WMV) and published via the <u>YouTube</u> platform (example stills in Fig. 7). Since its publication at the beginning of July 2020 it has reached 570 views.

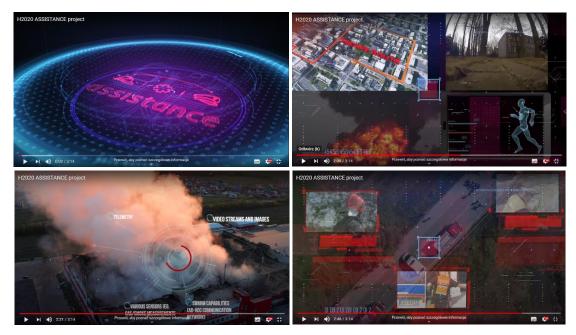


Figure 7 Example stills from the ASSISTANCE Dissemination movie

3. Communication & dissemination list

In order to coordinate and plan the various communication and dissemination efforts of different partners a common reporting sheet – Communication & dissemination list – has been proposed, where the information both on the activities performed and planned, as well as the potential dissemination opportunities (e.g. events of possible importance to ASSISTANCE, that could be performed jointly or by other project partners) are collected. This Communication & dissemination activities collector sheet is available

at the project repository for continuous reporting by partners as well as circulated by the Task 9.2 leader for regular updates every 6 months.

The list covers collection of the following categories of information:

- Partner submitting
- Presentation/publication/activity title/scope
- Archive (if the activity results in a format, which can be archived (e.g. publication in a newspaper).
- Event or medium name
- of event/ medium Conference/fair/trade • Type (Internet, show, Workshop/seminar, Professional/scientific journal, F2F meeting, Newspaper/magazine, Interview, Media/social media/public inquiry, Newsletter, Catalogue, TV, Radio, Patent application)
- Location (country, city etc., if applicable)
- Event/ medium territorial scope (Individual, Local, National, International, Global (internet))
- Event/medium/activity target audience (End-users, High level stakeholders, Research/scientific community, General public)
- Date of the event/ publication/ activity
- Status (Planned or performed)
- Event/ medium website or contact data
- Short description of the event/medium character or additional info

A copy of the current list is attached as Appendix 2 to the deliverable. The overview summary of activities reported by ASSISTANCE consortium in the first 18 months of project execution is provided in the next chapter.

4. Communication and dissemination activities M01-M18

In the period from May 2019 to October 2020 the ASSISTANCE consortium has performed almost a 100 of different types of communication and dissemination activities that are summarised in Table 1 below. Some activities are described in more details in the next subchapters.

It is important to underline that the SARS-COV-19 outbreak has heavily affected some of the already planned activities (events cancelled or postponed). Therefore, the below summary of activities has not changed significantly from the last summary as described in the respective chapters of deliverable D9.2. However, all the partners are devoting efforts to continue the dissemination activities in these new circumstances, refocusing and seeking opportunities in the types of communication and dissemination that does not rely on physical attendance, e.g. online events or preparation of research publications.

Type of activity	N°	Examples
Papers/articles publication	2	Proceedings of the 17th ISCRAM Conference (paper accepted for publication in 2020, the conference is postponed to 2021 due to COVID-19 situation), scientific paper in Safety Science journal
Posters at conferences	2	ITEC 2019 conference & MSB Seminar; Skadeplats 2019
Presentations at events and meetings (incl. distribution of leaflets)	12	Milipol 2019; 12. National Trauma Congress Turkey; 6. International Earthquake Symposium Turkey; Vision Zero Summit 2019; 3. International-21. National Public Health Congress; 6th IPRED International Conference on Preparedness & Response to Emergencies & Disasters; DRS Community of Users (CoU) Workshops
Internet/social media activities	50	Tweets, posts or news items (on project website and partners websites/social media accounts)
Trade fairs/industry shows attendance (stand, leaflet distribution etc.)	6	Global Robot Expo 2019; DroneTech World Meeting 2019; Droniada 2019; S-moving 2019; Droniada 2020; S-moving 2020
Workshops organisation/ participation	15	International Workshop on Data Protection and Security in Emergency Situations, International Medical Congress; 4th Next Generation Technologies in Emergency Services, workshops with end-users during Droniada 2019; EU Efforts Towards a Full Protection of Personal Data seminar; ERIA - Early Response Innovation Arena workshop; DRS Community of Users (CoU) Workshops
Liaison with other initiatives	4	Meeting with other DRS-02 projects during the Mediterranean Security Event 2019; meeting with technical coordinator and project director of Driver+ project; project presentation during the INGENIOUS project KoM; participation and brief introduction of the project at FASTER teleconference
Interviews/media activities	2	University of Cantabria Youtube Channel (<u>https://www.youtube.com/watch?v=4THXgd9CvCA</u>), Interview with Eric Didderen (IFV), Tina Mioch (TNO) and Robbert Heinecke (GB) in Brand & Brandweer
Other	2	Student's report and Master's thesis

Table 1 Summary of the communication and dissemination activities M01-M18

4.1. Online activities

Online activities in ASISSTANCE encompass both the updates on the project activities via ASSISTANCE public website and social media feeds as well as actions of the consortium partners via their organisation's online channels – websites, social media, newsletters etc. as shown in Table 1 above there was around 50 various online actions undertaken in the project to disseminate information on its progress, events and results. Table 2 below presents some basic statistics of the ASSISTANCE online channels by M18.

Channel	Visits	Unique visitors
Project website	66 933	29 171
	Number of followers	Number of views
Twitter	Number of followers 34	Number of views 5 626

Table 2 statistics of the ASSISTANCE online channels by M18

4.2. Newsletter1

An annual publication of the project newsletter has been envisaged in the project to present and make the information about the project progress, in particular its results and achievements, widely available. The first issue of the newsletter (Fig. 8, Appendix 3) has been developed by the Task 9.2 Leader and released in May 2020. It contains the introduction to the ASSISTANCE project and summary of the first year of its execution, including accomplishments of the first project milestones and completion of deliverables. A part dedicated to inviting end users and stakeholders to join the ASSISTANCE Community/End-user Group has also been included.

Newsletter1 has been circulated in the consortium to be further distributed via partners' communication channels and it was also <u>published on the project website</u> with relevant announcements posted in the News section and on project social media accounts and was re-posted and propagated by some partners via their online channels.



Figure 8 ASSISTANCE Newsletter1 (first two pages)

4.3. Events organisation/participation

One of the methods for targeted dissemination undertaken by the ASSISTANCE partners is participation and/or organisation of various events – congresses, workshops, symposia, conferences and exhibition fairs. These activities were unfortunately heavily biased by the SARS-COV-19 outbreak, but some initiatives have been performed in the period up to March 2020. While the general summary is presented in the Table 1 some notable examples which can be illustrated by pictures are given below.

On 18-19 October 2019 CNBOP-PIB has co-organised the 4th DroneTech World Meeting (Fig. 9) – an event encompassing two days of B2B meetings, demonstrations and indoor drone racing championships combined with a trade fair and a conference. At the event, ASSISTANCE was presented to the end-user community during a project-themed workshop for all representatives of first responders, uniformed services and rescuers, which was devoted to the use of new technologies (VR, AR, drones, etc.) when dealing with disasters such as: earthquake, industrial accident or terrorist attack, as well as new training methods.

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Figure 9 DroneTech WorldMeeting 2019 (CNBOP-BIP's stand and workshop with end-users) Also in October 2019 FADA-CATEC has presented ASSISTANCE at their stand during the S-moving 2019 event (Smart, Autonomous and Connected Vehicles Forum, Fig. 10) and E-Lex has organised a public seminar - International Workshop on Data Protection and Security in Emergency Situations, where ASSISTANCE was presented by its coordinator prof. Esteve (Fig. 11).



Figure 10 S-moving 2019 event (FADA-CATEC's stand)

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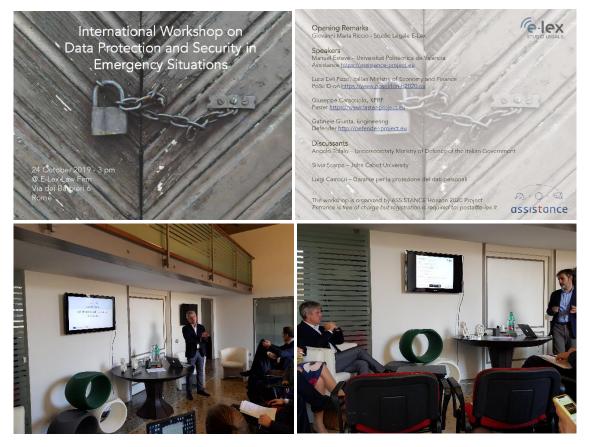


Figure 11 International Workshop on Data Protection and Security in Emergency Situations (digital invitation and presentations at the workshop)

In the period of the pandemic most initiatives were transformed into an online format, such as the EU Efforts Towards a Full Protection of Personal Data seminar organised by E-Lex (digital invitation in Fig. 12). ASSISTANCE has been presented and discussed along with two other H2020 projects PoSeID-on (Protection and control of Secured Information by means of a privacy enhanced Dashboard) and DEFENDER (Defending the European Energy Infrastructures).



Also, the Community of Users meetings/workshops, were performed online in September 2020. ASSISTANCE was presented there twice: at the Natural Hazards (Technologies for First Responders) session by UC and at the CBRN session by UPVLC.

Figure 12 EU Efforts Towards a Full Protection of Personal Data seminar (digital invitation)

Even though many events have been cancelled, postponed or transformed online, there were still a few that took place in a traditional, physical form.

On 8th September 2020 RISE has attended the Early Response Innovation Arena (ERIA) workshop (Fig. 13 and 14) organised by the Swedish Civil Contingencies Agency (MSB) and presented ASSISTANCE to a variety of stakeholders (end-users, academia, innovator and insurance company). ERIA was focused on series of in field experiments on how the rescue service can handle an electric car that is burning in a parking garage. For three days, innovative methods have been tested, new research was presented and problems around electric car fires were discussed.

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Figure 13 Invitation to the Early Response Innovation Arena workshop



Figure 14 Experiments during the Early Response Innovation Arena

At the end of September and beginning of October 2020 the 2020 edition of the S-Moving event has been held in Malaga, Spain combined with the Greencities event. In total, the events have brought together 1,560 professional visitors around a wide range of services and tools for a more advanced management model and for the improvement of public services. ASSISTANCE was represented by FADA-CATEC that had a stand at the event and distributed the project leaflets.





Figure 15 FADA-CATEC at S-moving 2020 event (FADA-CATEC's stand)

4.4. Liaison with other projects

ASSISTANCE partners have a strong focus on liaison with related research initiatives, in particular the on-going and newly launched H2020 projects. A <u>dedicated subpage</u> of the project webpage has recently been devoted to the projects that are in continuous collaboration with ASSISTANCE towards exchange of the experiences and knowledge.

So far, ASSISTANCE has close links with the following projects:

- **INGENIOUS**: The First Responder (FR) of the Future: a Next Generation Integrated Toolkit (NGIT) for Collaborative Response, increasing protection and augmenting operational capacity
- DRIVER+: Driving Innovation in Crisis Management for European Resilience
- **FASTER**: First responder Advanced technologies for Safe and efficienT Emergency Response
- **CURSOR**: Coordinated Use of miniaturized Robotic equipment and advanced Sensors for search and rescue OpeRations
- **FIRE-IN**: Fire and Rescue Innovation Network
- **iProcureSecurity**: Strategic Partnership of Emergency Medical Service Practitioners for Coordination of Innovation Procurement

These collaborations involve i.a. mutual attendance at various project meetings or workshops, e.g. in October 2019 UPVLC made a presentation introducing the project during the kick-off meeting of the H2020 INGENIOUS project (Fig. 13) and in August 2020 ŁUKASIEWICZ-PIAP participated in an introductory teleconference of the H2020 project

FASTER where ASSISTANCE was briefly introduced to the participants and the all the practitioners organisations present at the meeting were invited to join the ASSISTANCE End-user Group.



Figure 16 ASSISTANCE project presentation during the INGENIOUS project KoM

5. Conclusions and further planning

As mentioned in the previous chapter, the consortium makes its best efforts to continue the dissemination activities, refocusing and seeking opportunities in the different types of communication. This also includes the currently started discussions on organising project events in an online format, e.g. webinars for end-users and/or general public.

The project partners have reported a number of events and initiatives they intend to participate in or undertake once these will be available. The initial list of planned activities (as reported by partners until end of October 2020) with indication on their territorial scope and targeted audience is included in Table 3 below.

However, since the pandemic situation is expected to further affect to some extent the activities related to dissemination, the below outline of planned activities should be treated as only an initial plan for further actions that will be updated in the course of project implementation and adjusted to the evolving situation.

In addition, the project website and social media accounts will be continuously updated with all the up-to-date project-related information, including publication of the Newsletters and other publishable materials.

Partner	Event's or medium name and type of activity	Type of event/ medium	Location (country, city etc., if applicable)	Event's/ medium territorial scope	Event's/medium/activity target audience	Date of the event/ publication/ activity
CEL	DECON Conference 2021	Conference/fair/trade show		International	Research/scienitific community	2021
THALES	JPAL (journées de palaiseau)	Workshop/seminar	France	Local	End-users	2020
CNBOP-PIB	DroneTech WorldMeeting 2020	Workshop/seminar	Poland	International	Research/scienitific community	2020
	Marketing video summarizing and highlighting the main accomplishments of the commm system built and the mission control system					
VIASAT CH	developed	Other	Switzerland	International	End-users	2020
Ł-PIAP	Project presentation	Workshop/seminar	N/A	International	Research/scienitific community	December 2020
FADA-CATEC	Stand at Expodronica or UNVEX 2020	Conference/fair/trade show	Spain	National	End-users	2020/2021
	Paper in scientific conference with main technological results of ASISTANCE (related to drones) - ICUAS, IROS, ICRA or				Research/scienitific	
FADA-CATEC	similar conference	show		International	community	2020/2021
UPVLC/IFV/AAHD	Open Access paper related to mobile robot WP6 results (D6.1 and D6.2)	Professional/scientific journal	N/A	International	Research/scienitific community	2020/2021

SBFF	Articles	Newspaper/magazine	Sweden	National	End-users	2020/2021
IFV	eRIC	Conference/fair/trade show	The Netherlands	National	End-users	March 2021
UC/RISE	Poster at 13th International Symposium on Fire Safety Science (IAFSS)	Conference/fair/trade show	Waterloo, Canada	International	Research/scienitific community	April 2021
Ł-PIAP	Newsletter 2	Newsletter	N/A	International	End-users/general public	April 2021
ETRA/UC/IFV	Presentation and leaflet/ Presentation and video (maybe demo) at INTERSCHUTZ 2021	Conference/fair/trade show	Hannover, Germany	International	End-users	11-21 June 2021
UPVLC	ISCRAM conference (paper presentation)	Conference/fair/trade show	USA	International	Research/scienitific community	2021
THALES	GSI (geometric science of information)	Workshop/seminar	France	National	Research/scienitific community	2021
THALES	PGMO (programme Gaspard Monge)	Workshop/seminar	France	National	Research/scienitific community	2021
RISE	Updates on study about physical loads in the Nordic countries	Professional/scientific journal	N/A	International	Research/scienitific community	2021
CNBOP-PIB	Droniada 2021	Workshop/seminar	Poland	National	Research/scienitific community	2021
CNBOP-PIB	DroneTech WorldMeeting 2021	Workshop/seminar	Poland	International	Research/scienitific community	2021

			I	1		1
	Scientific Paper in Journal:				Research/scienitific	
CNBOP-PIB	Infrastructures	journal	N/A	International	community	2021
	Paper on ethics and societal					
	aspects in DRS research in one					
	of the journals: Journal of					
	Information Technology &					
	Politics, Journal of Information					
	Technology, Ethics and					
	Information Technology,					
	Philosophy & Technology,					
	International Journal of	Professional/			Research/scienitific	
CEL	Technoethics	scientific journal	N/A	International	community	2021
	Open Access paper related to					
	mobile robot	Professional/scientific			Research/scienitific	
Ł-PIAP	technologies/WP4 results	journal	N/A	International	community	2021/2022
					End-users/general	
Ł-PIAP	Newsletter 3	Newsletter	N/A	International	public	April 2022
					Research/scienitific	
CNBOP-PIB	Droniada 2022	Workshop/seminar	Poland	National	community	2022
					Research/scienitific	
CNBOP-PIB	DroneTech WorldMeeting 2022	Workshop/seminar	Poland	National	community	2022

Table 3 Initial plan of the communication and dissemination activities for the next reporting period

6. Appendixes

Appendix 1 General project presentation

Appendix 2 Communication & dissemination list

Appendix 3 Newsletter 1



Adapted Situation Awareness tools and tailored training scenarios for increasing capabilities and enhancing the protection of First Responders

Name/organisation



assistance

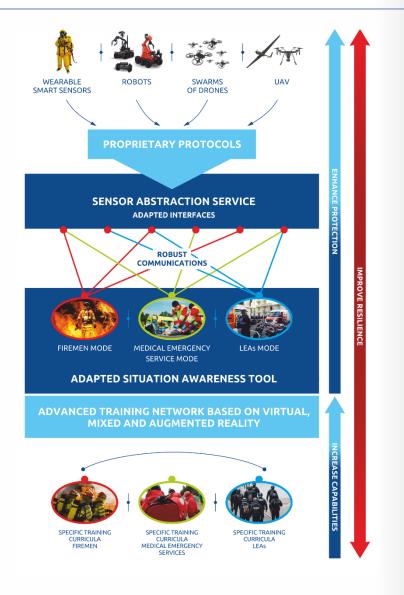
www.assistance-project.eu

Facts and figures

+ H2020 call	H2020-SU-DRS02-2018-2019-2020 (Technologies for first responders)						
+ Timeline	01/05/2019 - 30/04/2022 (36 months)						
+ Budget	6 393 691.25 Euro						
+ Coordinator	Universidad Politécnica de Valencia						
+ Countries	8						
+ Partners	19						
PARTNERS							
	Viasat. Viasat. Www.assistance-project.eu						
ussistunce	VIASAT. STUDIO LEGALE V V Responsible Research & Innovation WWW.assistance-project.eu						

ASSISTANCE in short

- NOVEL SITUATION AWARENESS PLATFORM
- INCREASING CAPABILITIES AND ENHANCING THE PROTECTION OF FIRST RESPONDERS
- INTEGRATION OF UAVs, ROBOTS, DRONES' SWARMS AND INNOVATIVE MODULES
- ADVANCED TRAINING NETWORK BASED ON VIRTUAL, AUGMENTED AND MIXED REALITY
- TRAINING CURRICULA TAILORED TO THE NEEDS OF DIFFERENT TYPES OF FIRST RESPONDERS

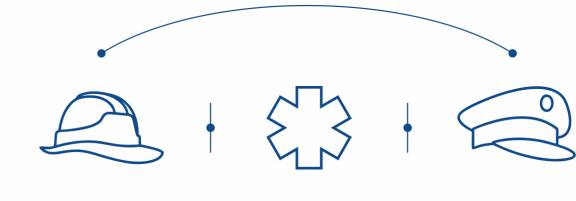




www.assistance-project.eu

The main purpose of ASSISTANCE project is twofold:

- to help and protect different kind of first responders' (FR) organisations that work together during the mitigation of large disasters (natural or man-made)
- + to enhance their capabilities and skills for facing complex situations related to different types of incidents





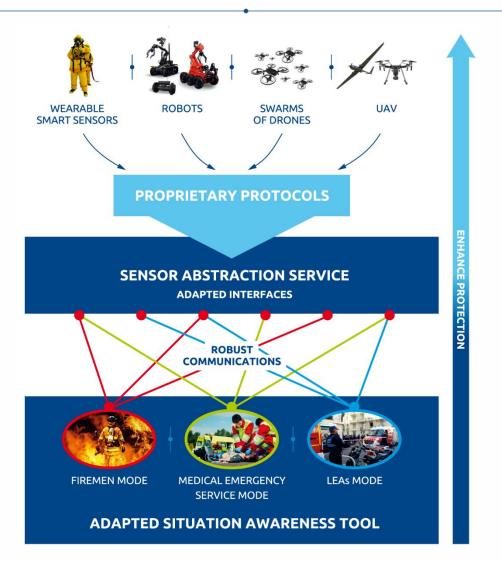
www.assistance-project.eu

Main objectives

- addressing the need for useful operational information via new sensors mounted on unmanned platforms or integrated in the FR's wearable equipment,
- developing a novel SA platform, including the integration of UAV, robots and drones' swarms and innovative modules,
- establishing the core of an advanced training network based on Virtual Reality (VR), Augmented Reality (AR) and Mixed Reality (MR) along with a set of training curricula,
- providing a robust network infrastructure and alternative ad-hoc network capabilities based on drones' swarm for ensuring FRs and unmanned platforms connectivity,
- validating the project results in a cost effective way under real conditions in 3 pilot demonstrations,
- measuring the societal impact of the project and assure compliance with legal, gender and ethical EU principles and requirements.



ASSISTANCE system



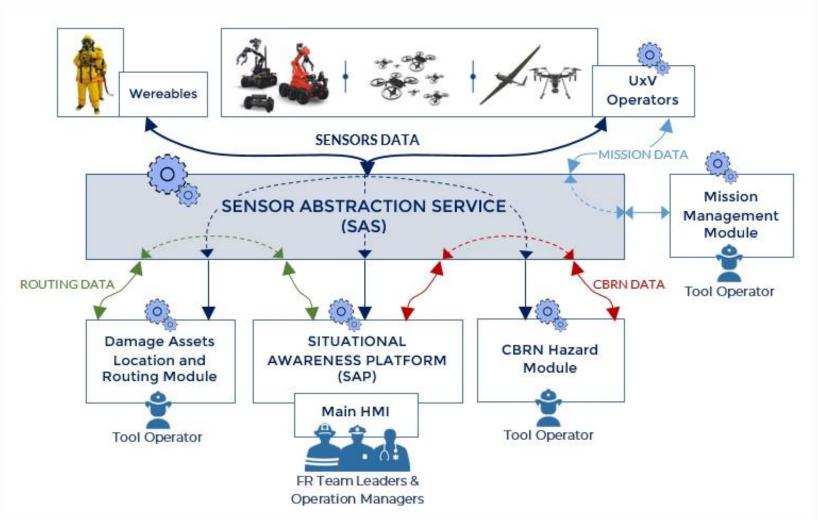


ASSISTANCE training



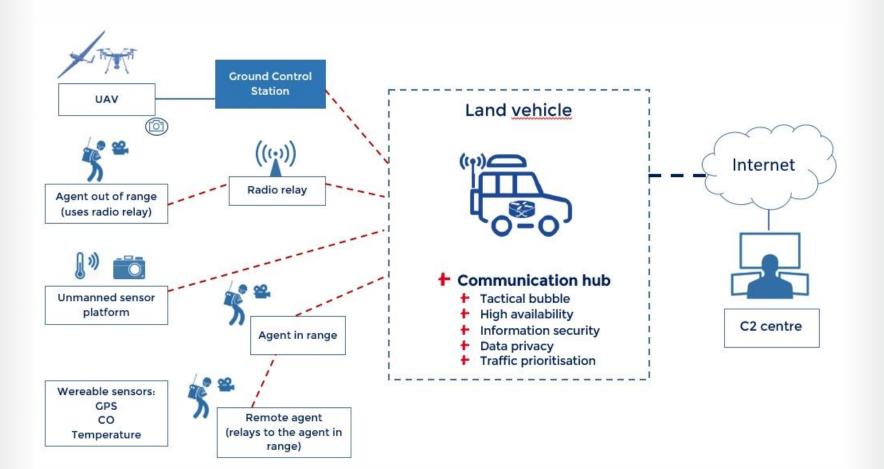


ASSISTANCE architecture





ASSISTANCE network architecture





ASSISTANCE User Community

End User Group coordinated by AAHD

- to establish a broad dialogue with the end-users on the solutions proposed in the project
- to collect input on expectations as well as feedback on the results
- to inform on the progress of the project and actively engage in different project activities (workshops, demonstrations, etc.)

Lol available at: <u>https://assistance-</u> project.eu/dissemination/communication-materials/

-- send to: <u>fecarrod@upvnet.upv.es</u>





THANK YOU!

assistance

Adapted Situation AwareneSS tools and tallored training scenarios for increaSing capabiliTies and enhANcing the proteCtion of First RespondErs

www.assistance-project.eu

+ <u>contact@assistance-project.eu</u>

☑ /ASSISTANCEh2020

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 832576.



								nformation about e	wents/nubli	cations/activit	ies where dissemination of ASSISTANCE pro	iert/results is nlanned	
1	<u> </u>				1		Event's/		Date of the	cations/activit	ies where dissemination of AbbistAnce pro		
No	artner	Presentation/publication/activity title/scope	Archive	Event's or medium name	Type of event/ medium	Location (country, city etc., if applicable)	medium territorial	Event's/medium/activity target audience	event/	Status	Event/ medium website or contact data	Short description of the event/medium character or additional info	Comments
sur	Juniteing						scope	target addrence	activity				
		Poster at conference and discussion with potential End User Advisory							14-15 May				
1 RIS	RISE	Board members.	Please choose	ITEC 2019 conference & MSB Seminar	Workshop/seminar		International	High level stakeholders	2019	Performed	https://www.itec.co.uk/	International conference on AR/VR simulations + national seminar on AR/VR training for emergency responders	MSB = Swedish Civil Contingency
		International Conference on Decision	n _{Please}										
2 CE	.EL	Economics Editing of the text book with best	choose	DECON Conference 2020	Conference/fair/trade show		International	Research/scienitific com	n 2020	0 Not performed	https://www.decision-economics.net/	The International Conference on Decision Economics is a multidisciplinary international forum dedicated to advancing knowledge and improving instruction in economics, business, technology, ps	y Participation in the June 2020 se
3 CE	EL	session's papers	Please choose	DECON Conference 2020 textbook	Professional/scientific journal		International	Research/scienitific com	n 202:	1 Planned	https://www.springer.com/it		Given the setback with the confi
		GPU implementation of an eikonal	Please										
4 TH	THALES	solver GPU implementation of an eikonal	choose	JPAL (journées de palaiseau) GSI (geometric science of	Workshop/seminar		Local	End-users	2020	0 Planned			
5 TH	THALES	solver	No	information)	Workshop/seminar		National	Research/scienitific com	202	1 Planned			
		GPU implementation of an eikonal											
6 TH	THALES	solver	No	PGMO (programme Gaspard Monge)	Workshop/seminar		National	Research/scienitific com	n 202:	1 Planned			
7 44	AAHD	Presentation	No	12.National Trauma Congress Turkey	Conference/fair/trade show	Turkey	National	End-users	2019-10-09	9 Performed	www.travma2019.org	Trauma and Disaster	
	-			International Earthquake									
8 AA	AAHD	Presentation	No	Symposium Turkey	Conference/fair/trade show	Turkey	International	End-users	2019-09-25	5 Performed	www.iesko2019.org GVA 112CV	Disaster	
9 AV	AVSRE	Tweet about KoM	Yes	Twitter	Media/social media/public inquiry		Global (interne	Please choose	2019-05-03	7 Performed	@GVA112CV @GVA112	Short report about ASSISTANCE purpose and KoM	
									September				
10 AV	AVSRE	Internal Dissemination day	Yes	ASSISTANCE Dissemination day	Other	Emergencies Coordination Center	Local	AVSRE staff and integrated	t 2019	Planned		Presentation of the proyect to AVSRE's staff and integrated Agencies	
11 UP	UPVLC		No	TAKEDOWN project final conference	Workshop/seminar	Valencia, Spain	International	End-users	2019-06-18	8 Not performed	https://www.takedownproject.eu/conference/	Could not be attended	
			Please						27-				
12 FA	FADA-CATEC	Stand at Expodronica 2019	choose Please	Expodronica 2019	Conference/fair/trade show	Madrid, Spain	National	End-users	28/06/2019	Performed	https://expodronica.com/es/	Drone fair targeting end users applications	+
13 FA	FADA-CATEC	Stand at S-moving	choose	S-moving 2019	Conference/fair/trade show	Malaga, Spain	International	Research/scienitific com	n 9-10/10/2019	Performed	https://smoving.fycma.com/	S-Moving is the reference space for companies, professionals, entities and public administrations in the sectors of Intelligent, Autonomous and Connected Vehicles.	
14.00		La UC, socio del Proyecto Europeo Assistance		University of Cantabria Youtube Channel	Interview		Global (int	General public	2010 05 24	8 Performed	https://www.youtube.com/watch?v=4THXgd9CvCA	Daniel Alvear presents ASSISTANCE and the UC contribution to the project	In spanish
14 00	<u> </u>		res	Constitict	INC. VICW		Giobai (interne	ocrieral public	2019-05-20	on enonned	www.youtube.com//watchrv=41mAgd9CVLA	participante process possibility can be contrologion to the project	
		La UC, socio del proyecto europeo							1				
		ASSISTANCE para dotar a los equipos	5										
		de primera intervención con herramientas de alta tecnología y							1		https://web.unican.es/noticias/Paginas/2019/mayo 2		
15 UC	JC	entrenamiento avanzado	Yes	University of Cantabria News Website	Internet		Global (interne	General public	2019-05-28	8 Performed	019/Proyecto-ASSISTANCE.aspx	New about ASSISTANCE at University of Cantabria webpage	In spanish
16.110		Reunión de arranque del Proyecto ASSISTANCE	Ye-	GIDAI Group (UC) weblog	Internet		Global (interne	General public	2010.05 **	0 Performed	http://gidaigroup.blogspot.com/2019/05/reunion-de- arranque-del-proyecto.html	ASSISTANCE KOM at GIDAI Group weblog	In spanish
10 UC	CNBOP-PIB	Workshop with end-users	No	Droniada 2019	Workshop/seminar	Katowice, Poland	National	Research/scienitific com			https://www.5zywiolow.pl/droniada2019/	ASSISTANCE KOW At GIDAL GROUP WEDING	in spanish
											http://dronetech-poland.com/?lang=en ,		
10 (1)	CNBOP-PIB	Unmanned Aerial Vehicles in fire		Deservation Manufacture 2010	Workshop/seminar	Toruń. Poland	Internet and	Research/scienitific com		Destanced	https://www.facebook.com/events/32935508434424		
18 CN	INBUP-PIB	fighting activities	NO	DroneTech WorldMeeting 2019	worksnop/seminar	Torun, Poland	international	Research/scientific com	1 18-19.10.2015	Performed	12 https://www.targikielce.pl/pl/targi-branzy-pozarniczej-		
											i-ratownictwa-ochrony-przeciwpozarowej-sprzet-	The International Trade Fair of Fire Brigade and Rescue Service Equipment IFRE-EXPO, made it possible to get acquainted with the latest technologies related to firefighting activities. 127	
19 CN	CNBOP-PIB		No	Targi Kielce IFRE-EXPO	Conference/fair/trade show	Kielce, Poland	International	End-users	6-8.06.2019	Performed	strazac.20187.htm	exhibitors from 8 countries showed up. During the course, field demonstrations of the technologies presented were organized.	
		Dissemination of project movie durin	ng									Droniada 2020 was conducted partly online. It consisted of many aspects, incl. presentation of new drone technologies and the challenges posed to them. In addition to the above, as in the	
20 CN	CNBOP-PIB	event	No	Droniada 2020	Workshop/seminar		National	Research/scienitific com	2020	Performed	https://www.5zywiolow.pl/	previous year, competitions were held among academic teams. As part of the online broadcast, a presentation on ASSISTANCE and a promotional film were presented.	
		Dissemination of project movie durin event, short presentation about	ng								http://dronetech-poland.com/?lang=en, https://www.facebook.com/events/32935508434424		
21 CN	CNBOP-PIB	ASSISTANCE project	No	DroneTech WorldMeeting 2020	Workshop/seminar		International	Research/scienitific com	2020	Planned	https://www.facebook.com/events/32935508434424 7/		
22 CN			No	Droniada 2021	Workshop/seminar		National	Research/scienitific com	n 2021	Planned			
23 CN	CNBOP-PIB CNBOP-PIB CNBOP-PIB		No	DroneTech WorldMeeting 2021 Droniada 2022	Workshop/seminar Workshop/seminar		International National	Research/scienitific com Research/scienitific com	n 2021	Planned Planned	http://dronetech-poland.com/?lang=en_		
24 CN	CNBOP-PIB CNBOP-PIB		No		Workshop/seminar Workshop/seminar		National	Research/scienitific com		Planned	http://dronetech-poland.com/?lang=en		
				General information about the					29 mei 2019		ifv.nl	General information about the project	
26 IFV	FV	Newsitem on website ifv.nl	Please	project									
27 IFV			choose		Internet		National	General public		Performed			
	۶V	Newsitem on website ifv.nl Newsitem on website ifv.nl	choose Please	Results IFV-survey ASSISTANCE and	Internet		National		30 aug 2019	Performed	ifv.nl	Results IFV-survey ASSISTANCE and forecast new activities	Contact TNO and GB
	FV		choose	Results IFV-survey ASSISTANCE and forecast new activities General information about the	internet			General public General public	30 aug 2019 15 sept 2019		ifv.nl Firefighting event		Contact TNO and GB Images to use?
		Newsitem on website ifv.nl	choose Please	Results IFV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU	internet		National	General public				Results IP4-survey ASSISTANCE and forecast new activities	
28 IF\	IFV	Newsitem on website ifv.nl Leaflet Assistance	Choose Please choose Please choose Please	Results IFV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU project version	Other		National	General public End-users	15 sept 2019	Performed Performed	Firefighting event	Results IPV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU project version	Images to use?
29 IFV	IFV	Newsitem on website lfv.nl Leaflet Assistance Inspiratieplein	choose Please choose Please choose	Results IFV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU project version PPT-presentation	internet		National	General public	15 sept 2019 3/4 okt 2019		Firefighting event Firefighting event	Results IPV-survey ASSISTANCE and forecast new activities General Information about the project; Dutch version based on EU project version PPT-presentation with highlights ASSISTANCE	Images to use? Images to use?
	IFV	Newsitem on website ifv.nl Leaflet Assistance Inspiratieplein Infographic	Choose Please choose Please choose Please	Results IFV-survey ASSISTANCE and forecast new activities General information about the project version project version PPT-presentation Results IFV-survey ASSISTANCE	Other		National	General public End-users	15 sept 2019 3/4 okt 2019 15 sept 2019	Performed Performed	Firefighting event	Results IFV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU project version PPT-presentation with highlights ASSISTANCE Annual firefighting event	Images to use?
29 IF\ 30 IF\	IFV IFV	Newsitern on website ifv.nl Leaflet Assistance Inspiratieplein Infographic Inspiration day continuous	choose Please choose Please choose Please choose Please	Results IFV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU project version PPT-presentation	Internet Other Conference/fair/trade show Other		National Individual Local	General public End-users High level stakeholders End-users	15 sept 2019 3/4 okt 2019	Performed Performed Performed	Firefighting event Firefighting event	Results IPV-survey ASSISTANCE and forecast new activities General Information about the project; Dutch version based on EU project version PPT-presentation with highlights ASSISTANCE	Images to use? Images to use?
29 IFV	IFV IFV	Newsitem on website ifv.nl Leaflet Assistance Inspiratieplein Infographic	choose Please choose Please choose Please choose Please choose	Results IFV-survey ASSISTANCE and forecast new activities General information about the project version project version PPT-presentation Results IFV-survey ASSISTANCE	Other		National Individual Local	General public End-users High level stakeholders	15 sept 2019 3/4 okt 2019 15 sept 2019	Performed Performed Performed	Firefighting event Firefighting event	Results IFV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU project version PPT-presentation with highlights ASSISTANCE Annual firefighting event	Images to use? Images to use?
29 IF\ 30 IF\	IFV IFV	Newsitem on website ifv.nl Leaflet Assistance Inspirateiplein Infographic Infographic Infographic competence Publish article in RISE's newsletter	choose Please choose Please choose Please choose Please choose	Results IFV-survey ASSISTANCE and forecast new activities General information about the project version project version PPT-presentation Results IFV-survey ASSISTANCE	Internet Other Conference/fair/trade show Other		National Individual Local	General public End-users High level stakeholders End-users	15 sept 2019 3/4 okt 2019 15 sept 2019	Performed Performed Performed	Firefighting event Firefighting event	Results IFV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU project version PPT-presentation with highlights ASSISTANCE Annual firefighting event	Images to use? Images to use?
29 IF\ 30 IF\	IFV IFV	Newsitem on website ifv.nl Leaflet Assistance Inspirateplein Infographic professional competence Publish article in RISE's newsletter Trandposten ³ bout the start of the	choose Please choose Please choose Please choose Please choose	Results IPV-survey ASSISTANCE and forecast new activities General information about the project: Duck version based on EU project version PPT-presentation Results IPV-survey ASSISTANCE PPT-presentation, leaflet, infographic	Internet Other Conference/fair/trade show Other Conference/fair/trade show		National Individual Local	General public End-users High level stakeholders End-users End-users	15 sept 2019 3/4 okt 2019 15 sept 2019 15 nov 2019	Performed Performed Performed Not performed Performed	Firefighting event Firefighting event Firefighting event and ifv.nl	Results IPV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU project version PPT-presentation with highlights ASSISTANCE Annual finefighting event PPT-presentation, leaflet, infographic	Images to use? Images to use?
29 IFV 30 IFV 31 IFV 32 RIS	IFV IFV IFV IFV	Newsitem on website ifs.nl Leaflet Assistance Inspiratieptein Inspiration day continuous professional competence Publish article in MSCs newsletter "Brandposten" about the start of the ASSISTANCE project.	choose Please choose Please choose Please choose Please choose	Results IV-survey ASSISTANCE and forerast new activities General information about the project buck version based on EU project version PPT presentation Results IV-survey ASSISTANCE PPT-presentation, leaflet, infographic Brandpoten	Internet Other Conference/fair/trade show Other Conference/fair/trade show Newspaper/magazine		National Individual Local International Local International	General public End-users High level stakeholders End-users End-users Research/scienitific com	15 sept 2019 3/4 okt 2019 15 sept 2019 15 nov 2019	Performed Performed Not performed Performed Performed Performed 9 Performed	Fireflighting event Fireflighting event Fireflighting event and ifv.ni Currently in transition, contact: erika.bjelm@ri.se	Results IPV-survey ASSISTANCE and forecast new activities General Information about the project; Dutch version based on EU project version PPT-presentation with highlights ASSISTANCE Annual firefighting event PPT-presentation, leaflet, infographic Infer description of ASSISTANCE and the roles of RISE in it.	Images to use? Images to use?
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29 IFV 30 IFV 31 IFV 32 RIS 33 SBI 34 SBI	IFV IFV IFV IFV RISE SBFF SBFF	Newsitem on website IfV.nl Leaflet Assistance Inspirateplein Infographic Ingoration day continuous professional competence Publish article InIUS's newsletter "Trandposten" about the start of the ASSIFTANCE project. Page on our website SEFF PLAY Presentation to the Swedish Civil	choose Please choose Please choose Please choose Please choose	Results IV-survey-ASSISTANCE and forecast new activities General information about the project, buck twosino based on EU project, buck twosino based on EU project version PPT presentation Results IV-survey ASSISTANCE PPT presentation, leaflet, infographic PPT presentation, leaflet, infographic Brandposten https://www.youtube.com/watch?vef	Internet Other Conference/fair/trade show Other Conference/fair/trade show Newspaper/magazine		National Individual Local International Local International Global (Interne	General public End-users High level stakeholders End-users End-users Research/scientific com General public End-users	15 sept 2019 3/4 okt 2019 15 sept 2019 15 nov 2019 15 nov 2019 14 wrz-11 July 2019 June 2019	Performed Performed Not performed Performed Performed Performed Performed Performed Performed	Fireflighting event Fireflighting event Fireflighting event and ifv.ni Currently in transition, contact: erika.bjelm@ri.se	Results IFV-survey ASSISTANCE and forecast new activities General information about the project; Dutch version based on EU project version PPT-presentation with highlights ASSISTANCE Annual infeglighting event PPT-presentation, leaflet, infographic Infer description of ASSISTANCE project and the roles of RISE in it. Information page on our official web, www.suff.se, about EU projects and national collaborations. Infernal communication. Information about the project to approximately 500 employees within SBFF Via our film channel SBFF Play, which is published on the intranet.	Images to use? Images to use? Not performed. Leaflet was sufficient The Excel sheet describes
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1	workshop with advisors 'dangerous										
48 TNO	substances' of Fire department region 'Rotterdam-Riimond'	se meeting	F2F meeting	The Netherlands	Local	End-users	15 january 2020	Performed		Workshop in which the project was presented to a group of experts from the Fire department 'Rotterdam-Rijnmond' regarding dangerous substances, and input recieved regarding requirements and challenges to which the project might contribute.	
49 UPVLC	ASSISTANCE Presentation during the Mediterranean Security Event 2019 cho	se ise workshop	F2F meeting	Crete - Greece	International	Research/scienitific	29 October	Performed	https://mse2019.kemea-research.gr/	Meeting with the rest of DRS02 projects with end users and stakeholders for clustring and dissemination activities	
45 01 122		Workshop	121 meeting		international	incident in scientine i	comitors	renomed		וווירבווון, אווידיור רבא טי טרפע איפן-בנא אוויר ביים עבי אווייר שע אווייר בא טי טרפע איפן איפי מעצרוווישנטיו פראיני	
50 UPVLC	Paper accepted for ISCRAM conference Yes	C	Conference/fair/trade show		later at a set	Research/scienitific	comi mai-2	Discord	https://www.drrm.fralinlifesci.vt.edu/iscram2020/ind	a dama a su a	
1	Newsitem on website ifv.nl and in Plea	se Website and social media (Twitter IF		USA	International	Research/scientific	19-gru-19	to Planned	ifv.nl	Conference paper submitted and accepted Base for trainingprogramme ASSISTANCE ready	
	newsletter cho Article in professional journal for	and Linkedin)	Internet		National	General public		Performed	had a set of the set of	Interview with Eric Didderen (IFV), Tina Mioch (TNO) and Robbert Heinecke (GB)	
f	firefighters Plea	Brand & Brandweer					kwi-20		https://www.sdu.nl/shop/brand-en-brandweer- abonnement-tijdschrift-inclusief-online-en-stapp-	Interview with Eric Didderen (I-V), Iina Mioch (I-VO) and Kobbert Heinecke (GB)	
52 IFV	cho Newsitem on website ifv.nl and in Plea	se Website and social media (Twitter IF	Professional/scientific journal	The Netherlands	National	End-users	2020/2021	Performed	app.html	Results WP 6.2	
53 IFV r	newsletter on website itv.ni and in Plea newsletter cho	se Website and social media (Twitter IF and Linkedin)	Internet		National	General public	2020/2021	Planned	irv.ni	Nesuits WP 6.2	
54 IFV	Plea	se eRIC	Conference/fair/trade show		National	End-users	March 2021	Planned			Depending on what to show.
55 IFV	Plec	se Interschutz	Conference/fair/trade show		International	End-users	June 2021	Planned			Depending on what to show.
56 RISE	Plec		Internet		Global (intern			- C			Keen in mind
	Information on www.ri.se cho Poster at conference and discussion	Information on webpage	Internet		Giobal (intern	e General public		Performed	www.n.se		
	with potential End User Advisory	se el la la enco	Conference/fair/trade show						https://www.brandskyddsforeningen.se/webbshop/kg		
F	Board members. cho Participated in a workshop for Pleo	se Skadeplats 2019	Conterence/fair/trade show	Uppsala, Sweden	National	End-users		Performed	https://www.brandskyddstoreningen.se/webbshop/ko	National conterence for firefighters	
58 RISE f	firefighter. cho	ISP ERIA	Workshop/seminar	Revinge, Sweden	National	End-users		Performed	https://www.msb.se/sv/amnesomraden/krisberedska	g Discussed with end-user about challenge and requirements	
59 RISE	Participated in a workshop about the use of UAS cho	se https://www.msb.se/sy/amnesomra	de Workshop/seminar	Revinge, Sweden	National	End-users		Performed	https://www.msb.se/sv/amnesomraden/skydd-mot-o	Discussed with end-user about challenge and requirements	
	Participant in a exchange of expert						1				
60 RISE	meeting for firefighters tactics in Arnhem, NL cho	se Exchange of Expert	Workshop/seminar	Amhem, NL	International	Research/scienitific	community	Performed	https://www.ifv.nl/kennisplein/Documents/20200113	- Discussion with potential End User Advisory Board members	
	Pleo	se International Association of Fire									Conference was postponed un
61 RISE F	Poster at conference cho	se Safety Scientists (IAFSS)	Conference/fair/trade show	Waterloo, Canada	International	Research/scienitific	com 202	1 Planned	https://iafss.org/upcoming-events/	Discussion and networking with fire safety scientists	April 2021 due to corona virus.
62 FADA-CATEC	CATEC presentation at Expodronica cho	ise Expodronica 2020	Conference/fair/trade show	Spain	National	End-users	9-10/9/2020	Performed	https://expodronica.com/es/	Drone fair targeting end users applications	
	Paper in scietific conference where										
	the main technological results of										
63 FADA-CATEC	ASISTANCE, with respect to drones, plea will be presented cho	se ICUAS, IROS, ICRA or similar se conference	Conference/fair/trade show		International	Research/scienitific	com/TRD	Planned		Any of these international conferences will be a great place to present project results.	
- USTADA CATLE			concretely uny rude show		international	Ne seureny selemente	21-23	i latitica			
64 AAHD	Plea Presentation and leaflet cho	se 6th SAYKAD International Health Related Quality of life meeting	Conference/fair/trade show	Izmir. Turkev	International	General public	November 2019	Performed	https://congress.savkad.net/		
	resentation and realize	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	concretely uny rude show	anni, rancy	international	deneral public	26-30	renomed	http://tong/calaywooliteg		
65 AAHD	Plea Presentation and leaflet cho	se 3.International-21.National Public se Health Congress	Conference/fair/trade show	Antalya, Turkey	International	Bosopreh (scionitific	November	Borformod	https://uhsk.org/2019/index.php/en/		
03/04/10	Fresentation and leaner cho	nearch congress	conterence/tail/trade show	Antalya, Turkey	international	Researchyscientinic	01112013	Fenomieu	https://disk.org/2015/index.php/en/		
66 AAHD	Plea Presentation and leaflet	se International Medical Congress	Workshop/seminar	Izmir Turkev	International	High level stakehold	6-8 December ers 2019	r Performed	http://imcidu.idu.edu.tr/		
66 Junio	Presentation and leanet 200	international Medical Congress	workshop/seminar	izmir, Turkey	International	High level stakehold		Performed	http://incidu.idu.edu.tr/		
		se 4th Next Generation Technologies					12-13		http://www.aahd.org.tr/2019/12/10/4-acil-		
67 AAHD	Plea Presentation and leaflet cho	se 4th Next Generation Technologies in Emergency Services (Internationa) Workshop/seminar	Izmir, Turkey	International	End-users	December 2019	Performed	http://www.aand.org.tr/2019/12/10/4-acii- hizmetlerde-veni-nesil-teknoloiiler-sempozvumu/		
-		6th IPRED International Conference									
	Pleo	on Preparedness&Response to					15-16 January 2020	<i>'</i>			
68 AAHD F		Emergencies&Disasters	Conference/fair/trade show	Tel Aviv, Israel	International	End-users		Performed	https://www.ipred.co.il/		
69 FADA-CATEC	CATEC Stand at Global Robot Expo Pleo 2019 cho							9 Performed	https://www.globalrobotexpo.com/		
	2019 cho	Global Robot Expo 2019	Conference/fair/trade show	Madrid	International	Research/scienitific	com 08-maj-1	19 Performed		European event on innovations for business & industry. Sectors: robotics, AI, 4.0 industry, logistics, air robots.	
70 VIASAT CH	Plec	Ise Global Robot Expo 2019		Madrid Paris	International	Research/scienitific			https://www.milipol.com/	European event on innovations for business & industry. Sectors: robotics, AJ, 4.0 industry, logistics, air robots.	
70 VIASAT CH	presentation cho Presentation and video (maybe demo)	se Global Robot Expo 2019 se Miipol 2019 se Interschutz 2021	Conference/fair/trade show	Paris	International	End-users	com 08-maj-1 19-22 nov 19 June 2021	Performed	https://www.milipol.com/		
70 VIASAT CH p 71 UC	Piec presentation cho Presentation and video (maybe demo) Piec cho	se Global Robot Expo 2019 se Mijpol 2019 se Interschutz 2021	Conference/fair/trade show Conference/fair/trade show	Madrid Paris Hannover, Germany	International International International	Research/scienitific	19-22 nov 19		https://www.milipol.com/ https://www.interschutz.de/en/	European event on innovations for business & industry. Sectors: robotics, Al, 4.0 industry, logistics, air robots. Exhibition and forum on fire fighting, rescue service, civil protection and safety and security	Suppossed to be performed in
F	Presentation Presentation Presentation Presentation Presentation and video (maybe demo) Presentation and video (maybe demo) Pres	Image: Segregation of the se	Conference/fair/trade show Conference/fair/trade show	Paris	International International International International	End-users	19-22 nov 19 June 2021	Performed	https://www.milipol.com/		Supossed to be performed in 2020 because of COVID-19 was
F	Presentation Presentation Presentation Presentation Presentation and video (maybe demo) Presentation and video (maybe demo) Pres	se Global Robot Expo 2019 se Miipol 2019 e Interschutz 2021 se 13th International symposium on fir	Conference/fair/trade show Conference/fair/trade show e	Paris Hannover, Germany		End-users End-users	19-22 nov 19 June 2021	Performed Planned	https://www.milipol.com/	Exhibition and forum on fire fighting, rescue service, civil protection and safety and security	2020 because of COVID-19 was
F	Presentation Presentation Presentation Presentation Presentation and video (maybe demo) Presentation and video (maybe demo) Pres	see Global Robot Expo 2019 we Mippol 2019 we Mippol 2019 we Interschutz 2021 we Interschutz 2021 we I 3th International symposium on fir safectry science (IAFSS) One of this journal: Journal of	Conference/fair/trade show Conference/fair/trade show e	Paris Hannover, Germany		End-users End-users	19-22 nov 19 June 2021	Performed Planned	https://www.milipol.com/	Exhibition and forum on fire fighting, rescue service, civil protection and safety and security	2020 because of COVID-19 was CEL and UNICAN are writing a whitepaper together that will
F	Presentation Presentation Presentation Presentation Presentation and video (maybe demo) Presentation and video (maybe demo) Pres	Eliobal Robot Expo 2019 Milpol 2019 Milpol 2019 Jan Interschutz 2021 Jan Interactional symposium on fir safecty science (IAFSS) One of this journal: Journal of Information Technology & Politics,	Conference/fair/trade show Conference/fair/trade show e	Paris Hannover, Germany		End-users End-users	19-22 nov 19 June 2021	Performed Planned	https://www.milipol.com/	Exhibition and forum on fire fighting, rescue service, civil protection and safety and security	2020 because of COVID-19 was CEL and UNICAN are writing a whitepaper together that will serve as a stepping stone for th
71 UC F	presentation cher Presentation and video (maybe demo) _{Rec} Poster cher Poster	Elobal Robot Expo 2019 Milpol 2013 Milpol 2013 Milpol 2013 Jan Interschutz 2021 Jan Interschutz 2021 Done of this journal: Journal of Information Technology, & Politics, Journal of Information Technology, Ethics and Information Technology,	Conference/fair/trade show Conference/fair/trade show e	Paris Hannover, Germany		End-users End-users	19-22 nov 19 June 2021	Performed Planned	https://www.milipol.com/	Exhibition and forum on fire fighting, rescue service, civil protection and safety and security	2020 because of COVID-19 was CEL and UNICAN are writing a whitepaper together that will serve as a stepping stone for th more polished, academic paper The whitepaper will be
71 UC F	presentation Presentation Presentation and video (maybe demo) Presentation and video (maybe demo) Presentation and video (maybe demo) Presentation P	Global Robot Espo 2019 Mipol 2019 Mipol 2019 Interchutz 2021 Interchutz 2021 Interchutz 2021 Jähn International symposium on fire Jafecty science (IAYSS) One of this journal: Journal of Information Technology, Ethics and Information Technology,	Conference/fair/trade show Conference/fair/trade show e	Paris Hannover, Germany		End-users End-users	19-22 nov 19 June 2021	Performed Planned Planned	https://www.milipol.com/	Exhibition and forum on fire fighting, rescue service, civil protection and safety and security One of the biggest events related to fire safety science.	2020 because of COVID-19 was CEL and UNICAN are writing a whitepaper together that will serve as a stepping stone for th more polished, academic paper
71 UC F	Presentation and video (maybe demo) new Presentation and video (maybe demo) new Poster new Scientific paper on ethics and societat a spects in DRS research new	Global Robot Espo 2019 Mipol 2019 Mipol 2019 InterActu 2021 InterActu 2021 InterActu 2021 Jahn International symposium on fire Jafecty science (AVSS) One of this journal- Journal of Information Technology, Ethics and Information Technology, Ethics and Information Technology, Ethics and Information Technology, minernational Journal of Technolethic are	Conference/fair/trade show Conference/fair/trade show Conference/fair/trade show Conference/fair/trade show S Professional/scientific journal	Paris Hannover, Germany		End-users End-users	19-22 nov 19 June 2021 com April 2021 com 2021 11-21 June	Performed Planned Planned	https://www.milipol.com/	Exhibition and forum on fire fighting, rescue service, civil protection and safety and security One of the biggest events related to fire safety science. The concept of the paper is to highlight the role of non-technological aspects in search & rescue studies and provide tailored methods for detecting them. INTERSCIPUT2 is the world's leading trade fair for the fire and rescue services, civil protection, safety and security. It is a magnet for companies from all around the world seeking to develop new	2020 because of COVID-19 was CEL and UNICAN are writing a whitepaper together that will serve as a stepping stone for th more polished, academic paper The whitepaper will be disseminated through CEL's
71 UC F	presentation Presentation Presentation and video (maybe demo) Presentation and video (maybe demo) Presentation and video (maybe demo) Presentation P	Global Robot Espo 2019 Mipol 2019 Mipol 2019 Interchutz 2021 Interchutz 2021 Interchutz 2021 Jähn International symposium on fire Jafecty science (IAYSS) One of this journal: Journal of Information Technology, Ethics and Information Technology,	Conference/fair/trade show Conference/fair/trade show e Conference/fair/trade show	Paris Hannover, Germany		End-users End-users	19-22 nov 19 June 2021 com April 2021	Performed Planned Planned	https://www.milipol.com/	Exhibition and forum on fire fighting, rescue service, civil protection and safety and security One of the biggest events related to fire safety science. The concept of the paper is to highlight the role of non-technological aspects in search & rescue studies and provide tailored methods for detecting them. INTERSORUT2 is the world's leading trade fair for the fire and rescue services, civil protection, safety and security. It is a magnet for companies from all around the world seeking to develop new markets for their solutions.	2020 because of COVID-19 was CEL and UNICAN are writing a whitepaper together that will serve as a stepping stone for th more polished, academic paper The whitepaper will be disseminated through CEL's
71 UC F 72 UC F 73 CEL 5 74 ETRA F	Presentation and video (maybe demo) Pre- Presentation and video (maybe demo) Pre- Poster Poster Post	Elibal Robot Expo 2019 Mipol Mithermational symposium on fir adfectly science (IAMSS) One of this journal. Journal of Information Technology, Ethics and fireformation Technology, Thicsophy & Technology, Thicsophy & Technology, Mithermational Journal of Technology, International of Technology, International of Technology, International of Technology, International Journal Journal of Technology, International Journal of Technology, Internation	Conference/fair/trade show Conference/fair/trade show Conference/fair/trade show	Paris Hannover, Germany		End-users End-users Research/scienitific i Research/scienitific i End-users	19-22 nov 19 June 2021 com April 2021 11-21 June 2021 15-September	Performed Planned Planned	https://www.milipol.com/	Exhibition and forum on fire fighting, rescue service, dwil protection and safety and security One of the biggest events related to fire safety science. The concept of the paper is to highlight the role of non-technological aspects in search & rescue studies and provide tailored methods for detecting them. INTERSCUT7 is the world's leading trade fair for the fire and rescue services, chril protection, safety and security. It is a magnet for companies from all around the world seeking to develop new markets for their solutions. The VI Smart Clies Congress brought together the entire sector linked to smart clies to take the pulse of the latest developments that professionals, local, provincial, autonomous and	2020 because of COVID-19 was CEL and UNICAN are writing a whitepaper together that will serve as a stepping stone for th more polished, academic paper The whitepaper will be disseminated through CEL's
71 UC F	Presentation and video (maybe demo) new Presentation and video (maybe demo) new Poster new Scientific paper on ethics and societat a spects in DRS research new	Global Robot Expo 2019 Jobal Robot Expo 2019 Jobal Robot Expo 2019 Jobal Robot Expo 2019 Alter Schutz 2021 Jobal Robot Expo 2019 Jobal Robot Expo	Conference/fair/trade show Conference/fair/trade show Conference/fair/trade show Conference/fair/trade show S Professional/scientific journal	Paris Hannover, Germany		End-users End-users	19-22 nov 19 June 2021 com April 2021 11-21 June 2021 15-September 2020	Performed Planned Planned	https://www.milipol.com/	Exhibition and forum on fire fighting, rescue service, civil protection and safety and security One of the biggest events related to fire safety science. The concept of the paper is to highlight the role of non-technological aspects in search & rescue studies and provide tailored methods for detecting them. INTERSORUT2 is the world's leading trade fair for the fire and rescue services, civil protection, safety and security. It is a magnet for companies from all around the world seeking to develop new markets for their solutions.	2020 because of COVID-19 was CEL and UNICAN are writing a whitepaper together that will serve as a stepping stone for th more polished, academic paper The whitepaper will be disseminated through CEL's
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71 UC 1 72 UC 1 73 CEL 2 74 ETRA 7 75 ETRA 7 75 PIAP 7 77 PIAP 7 78 PIAP 1 79 E-LEX 7 80 RSE 7 81 UC 1 70 FIA	Presentation and video (maybe dem) Presentation and video (maybe dem) Presentation and video (maybe dem) Presentation and leaflet dem) Presentation and leaflet demonstration demonstration and leaflet demonstration de		Conference/fair/trade show Conference/fair/trade show Conference/fair/trade show Conference/fair/trade show Conference/fair/trade show Conference/fair/trade show Internet Internet Internet Workshop/seminar Workshop/seminar	Paris Hannover, Germany Materico, Canada Hannover Madrid N/A online	International International International International International Global (intern International	End-users End-users Research/scientific Research/scientific End-users General public General public Research/scientific End-users	19-22 nov 19 June 2021 June 2021 com April 2021 11-21 June 2020 11-21 June 2020 15-5eptember 2019 July 2019- November May-July 2020 May-July 2020 06-smpt 06-smpt 00-smpt 06-smpt 00-smpt 06-smpt 0-sempt	Performed Planned Performed Performed Performed	https://www.mlipel.com/ https://www.interschutz.de/en/ https://www.interschutz.de/en/ https://www.interschutz.de/en/ https://www.interschutz.de/en/ https://www.compreso-cludedes-intelligentes.ev/ https://www.compreso-cludedes-intelligentes.ev/ https://www.compreso-cludedes-intelligentes.ev/ https://www.compreso-cludedes-intelligentes.ev/ https://www.compreso-cludedes-intelligentes.ev/ project_use_ https://www.compreso-cludedes-intelligentes.ev/ project_use_ project_use_ https://www.compreso-cludedes-intelligentes.ev/ https://www.com/sbstTAACEP.2020_ www.satisticnes.project_use_ project_use_ strateschuse.com/sbstTAACEP.2020_ https://www.medialaws.ev/eu-efforts-towards-a-full- protection-of-personal-data_ush_10/ https://www.mits.efv/usaturelit/balender/2020/septo	Exhibition and forum on fire fighting, rescue service, dwl protection and safety and security Cone of the biggest events related to fire safety science. The concept of the paper is to highlight the role of non-technological aspects in search & rescue studies and provide tailored methods for detecting them. INTERSCATT is the world's leading trade fair for the fire and rescue services, chrill protection, safety and security. It is a magnet for companies from all around the world seeking to develop new markets for their solutions. The VI Smart Clies Congress brought together the entire sector linked to smart cities to take the pulse of the latest developments that professionals, companies, local, provincial, autonomous and national public administrations implement for the development of intelligent territories in Spain. Torect/ Dissemination movie explaining the project objectives and expected results, published in the YouTube service with associated newsitems on the project website and social media accounts	2020 because of COVID-19 was CEL and UNICAN are writing a hitespaper together that will serve as a stepping stone for th one polished, academic paper the whitespaper will be disseminated through CEL's website.

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									https://www.linkedin.com/feed/update/um:li:activity		
									6673166356990570496	CEL, in an English language post, shared the project's video on Linkedin with the following post and hashtags. As of 24/8/2020, the post has gotten 258 impressions, 7 Reactions, 1 Comment, 2 Shares and a 4.65% Engagement rate.	
										Learn more about our role in ethics monitoring alongside great partners on the ASSISTANCE project, which is aimed at helping enhance the capabilities of first responders in complex disaster	
										scan more boot on our neuror memory and your particles on the reasonance project, which is sume a creating entities on the reasonance of	
	English language post with the									Wresearch #innovation #FirstResponders #safety #SearchAndRescue	
	project's video on LinkedIn with the Please									All project partners on LinkedIn were also tagged in the post (Universitat Politècnica de València (UPV), ETRA, Thales, ŁUKASIEWICZ - PIAP Institute, Fundación Andaluza para el Desarrollo	
83 CEL	following post and hashtags choose		Media/social media/public inquiry	N/A	Global (interne	General public	2020-01-06	Performed		Aeroespacial, TNO, RISE Research Institutes of Sweden, Instituut Fysieke Veiligheid (IFV), Gezamenlijke Brandweer, Viasat Inc., E-Lex Studio Legale, Södertörns brandförsvarsförbund.)	
		FASTER teleconference (organised by									
	Brief introduction to the project at the	the Polish Police Academy in									
84 PIAP	FASTER project teleconference No	Szczytno)	Other	telco (Poland)	National	End-users	2020-08-31	Performed		PIAP was invited by the orgaisers to take part in the FASTER project teleconference organised for Polish end-users as to initiate the collaboration between the projects.	
	Marketing video summarizing and highlighting the main										
	accomplishments of the commm										
	system built and the mission control										
85 VIASAT CH	system developed No	EU Customers	Other	Switzerland	International	End-users	2020	Planned		Marketing video summarizing and highlighting the main accomplishments of the commm system built and the mission control system developed	
									https://www.linkedin.com/showcase/assistance-		
									project/		
	News/social media items on current Please	News/social media items on current							https://twitter.com/ASSISTANCEh2020		
86 PIAP	project events choose	project events	Internet	N/A	Global (interne	General public	08/09 2020	Performed	www.assistance-project.eu	News items on E-Lex workshop and collaboration with FASTER	
									https://www.linkedin.com/showcase/assistance-		
									project/		
	Updates of the project webbsite - Please	Updates of the project webbsite -							https://twitter.com/ASSISTANCEh2020		
87 PIAP	creation of the Collaborations section choose	creation of the Collaborations section	Internet	N/A	Global (interne	General public	08/09 2021	Performed	www.assistance-project.eu	Creation of the "Collaborations" section on the project website and adding projects linked with ASSISTANCE	
88 FADA-CATEC	Stand at S-moving choose	S-moving 2020	Conference/fair/trade show	Malaga, Spain	International	Research/scienitific com	30/9- 1/10/2020	Performed	https://smoving.fycma.com/	S-Moving is the reference space for companies, professionals, entities and public administrations in the sectors of Intelligent, Autonomous and Connected Vehicles.	
00 PADACATEL	Presentation at the NAT. HAZARDS	5 moving 2020	connercative/idit/trade stidW	mungu, span	memacional	including sciencial com	10/2020	continued	ingery and angly chargeny	proving is are reference gave for composing professionals, encodes and pound administrations in the sectors or intelligent, Autonomous and conflicted vehicles.	
	Technologies for First Responders	DRS Commutiy of Users (CoU)		1	1			1		*Addressing societal aspects in developing technologies for First Responders. Examples from the ASSISTANCE project" To be presented at the NAT. HAZARDS Technologies for First Responders	
89 UC	Session	Workshop	Workshop/seminar	N/A	International	End-users	15/09/2020	Performed	https://www.securityresearch-cou.eu/	Session	
	Updates on study about physical loads Please										
90 RISE	in the nordic countries choose	Submitting to a journal	Professional/scientific journal	N/A	International	Research/scienitific com	2021	Planned		Finishing manuscript	
91 CNBOP-PIB	Please	Interschutz	Conference/fair/trade show		International	Research/scienitific com	June 2021				Depending on what to show.
91 CNROD-DIR	choose		Conference/fair/trade show		International	Research/scienitific com		Planned			Keen in mind
	dissemination movie and publication										
	in the internet (website/social media) Please										
92 CNBOP-PIB	facebook and website choose		Internet		Global (interne	General public	August 2020	Performed			
	Please										
93 CNBOP-PIB	Scientific paper choose	Journal: Infrastructures	Professional/scientific journal		International	Research/scienitific com	imunity	Planned		Title: Possible usage of new technologies during mitigation of large disaster. Overview.	
	T. Beuker. Supporting situation										
	awareness in first responders. A										
	synopsis of theories, models and										
	methods. Research project, University Please						Sentember				
94 TNO	of Twente, September 2020. choose	Student report	Other	The Netherlands	International	Research/scienitific com	2020	Performed			
	A. Ticheler. Non-expert risk										
	assessment using gas cloud										
	visualizations, and the influence of										
	user characteristics. Master's thesis,										
	Department of Psychology, Utrecht Please			Le se se se se							
95 TNO	University, July 2020. choose	Master's thesis	Other	The Netherlands	International	Research/scienitific com	uury 2020	Performed			++
96 UPVLC	Presentation at the CBRN Session Yes	DRS Commutiy of Users (CoU) Workshop	Workshop/seminar	N/A	International	Enduisers	17/09/2020	Performed	https://www.securityresearch-cou.eu/		
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97 PIAP	Release of ASSISTANCE Newsletter1 Yes	ASSISTANCE Newsletter	Newsletter	N/A	Global (interne	General public	May2020	Performed	content/uploads/2020/05/Newsletter1 May2020.pdf		
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98 ETRA	Newsitem at grupoetra.com choose	Information on webpage	Internet	N/A	Global (interne	General public	October 2020	Planned	innovation/	General information about the project	
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99 PIAP	technologies/WP4 results choose	Open Access journal - to be selected	Professional/scientific journal	N/A	International	Research/scienitific com	2021/2022	Planned			
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NEWSLEITER 1

MAY 2020

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Adapted Situation AwareneSS tools and tallored training scenarios for increaSing capabiliTies and enhANcing the proteCtion of First RespondErs

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Dear Reader,

Welcome to the first issue of the ASSISTANCE Newsletter. We would like to introduce you to our project and its objectives, our team and first accomplishments after a year of the project implementation.

ASSISTANCE is an innovative approach for protecting the First Responders of different organisations during their mitigation activities in complex disaster scenarios.

Our consortium is developing new tools and capabilities focused on improving the situation awareness (SA) of the FR units in field to support their tasks and increase their safety. ASSISTANCE proposes also to prove the concept of a Virtual Reality (VR) network of training platforms to enhance the training capabilities of the FRs through complex virtual scenarios.

We hope that ASSISTANCE results will be a useful set of tools and capabilities for increasing the protection of the FRs.

If you are interested in getting involved in the project, please take a look at the ASSISTANCE Users Community section of this Newsletter and join the team!

ASSISTANCE Project Coordinator





+ About ASSISTANCE

ASSISTANCE is an international research project funded by the European Commission under the **Horizon 2020 programme** in Secure Societies Challenge addressing the **SU-DRS02-2018-2019-2020** (Technologies for first responders) topic.

The main purpose of ASSISTANCE project is twofold: first to help and protect different kind of first responders' (FR) organisations that work together taking into account the type of disaster/crisis they are mitigating in each moment and second to enhance their capabilities for facing complex situations providing them advanced training based on Virtual Reality (VR), Augmented Reality (AR) and Mixed Reality (MR), tailored to their real needs depending on the type of incident.

ASSISTANCE will employ **novel technologies** such as: **drones, robots and innovative modules** for increasing the FR's **situation awareness (SA)** and taking into account their **needs in terms of data** (e.g. real time video, persons and objects location, evacuation routes status, ad-hoc network coverage etc.).

ASSISTANCE will also establish **the core of an advanced training network based on VR, AR and MR** along with a set of **training curricula tailored to the needs** of the different types of first responders (e.g. **Firefighters, Emergency medical services, Police**, etc.) and characteristics of **the type of incident**.

All the ASSISTANCE results will be tested under controlled conditions in **three different demonstration pilots** which will involve FRs from different organisations.

The solutions proposed in ASSISTANCE will be developed in compliance with **EU societal values**, **fundamental rights and applicable legislation**, including in the area of **privacy and personal data protection**. Societal aspects (e.g. perception of security, possible effects of technological solutions on societal resilience, gender diversity) will be taken into account in a comprehensive and thorough manner.



+ Year1 summary and accomplishment of the first project milestones

ASSISTANCE project has been **started in May 2019** with a kick-off meeting hosted by its **coordinator Universidad Politécnica de Valencia** in Spain.

In addition to the project management tasks (WP1), activities in four work packages have been launched with the first month of the project, i.e. User requirements, scenarios & system architecture (WP2), Advanced training network based on virtual and augmented reality (WP6), Gender, ethical, societal and legal issues (WP8) as well as Exploitation and dissemination (WP9).



ASSISTANCE KoM

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In the first half year of the project implementation **several deliverables** have been produced in these work packages and **successfully submitted to the EC within the planned schedule**, with the first one – the project public website (D9.1) – in operation from month 3.

Delivered results cover both the administrative and research part of the project. Project management handbook (D1.1), Data Management Plan (D1.2) and Risk & Opportunities Register (D1.3) have been produced as tools serving an efficient project execution and management of its outcomes, while the research works of the various ASSISTANCE teams focused on analysis and identification of the **State-of-the-Art Situational Awareness and training tools (D2.1)**, specification of the **user requirements (D2.2)** and definition of **reference scenarios and pilot experiments (D2.3)**, accompanied by the **studies on the relevant legal EU framework and assessment of the ethical impact (D8.1)**.

Majority of these outcomes will be publicly available on the project website after they are approved by the EC services, during the first project review scheduled for end of May 2020.

Besides the development and submission of deliverables, the activities of ASSISTANCE partners covered organisation and participation in different types of events (workshops or fairs) and liaison with other related research initiatives, such as other H2020 project in security theme.

On 18-19 October 2019 CNBOP-PIB has co-organised the 4th DroneTech World Meeting an event encompassing two days of B2B meetings, demonstrations and indoor drone racing championships combined with a trade fair and a conference. At the event, ASSISTANCE was presented to the end-user community during a project-themed workshop for all representatives of first responders, uniformed services and rescuers, which was devoted to the use of new technologies (VR, AR, drones, etc.) when dealing with disasters such as: earthquake, industrial accident or terrorist attack, as well as new training methods.





DroneTech World Meeting 2019 (CNBOP-BIP's stand and workshop with end-users)



Also in October 2019 FADA-CATEC has presented ASSISTANCE at their stand during the S-moving 2019 event and UPVLC made a presentation introducing the project during the kick-off meeting of the H2020 INGENIOUS project.



The first half year was concluded with the **general assembly meeting in October 2019**, hosted in Rome by E-Lex. The meeting included a summary of the delivered results and a progress check of the ongoing works as well as an **early kick-off** of another two work packages **WP3 Sensor abstraction service (SAS)** and **WP4 Unmanned platforms & wearable sensors**.

Back to back with the plenary meeting, **E-Lex** has organised a public seminar - **International Workshop on Data Protection and Security in Emergency Situations**, where ASSISTANCE was presented by its coordinator prof. Esteve.



ASSISTANCE General Assembly meeting in Rome



International Workshop on Data Protection and Security in Emergency Situations



The next six months of the project implementation brought another **successful and timely deliveries of results in all active work packages** as well as active interaction between the partners, such as the **technical meeting** held between **Ł-PIAP and OSPOM on sensors and payloads** that can be used on the **mobile robot** in ASSISTANCE scenarios. In result of these discussions an additional use case has been proposed, related to **integration of the cutting extinguisher** on the robot's arm.



Meeting between Ł-PIAP and OSPOM

The first year of the project implementation was summarised during the **plenary meeting in March 2020** that was originally planned to be hosted by IFV in The Netherlands. Due to the SARS2-COV-19 pandemic the meeting was organised **in a teleconference format** and was **accompanied by the remote workshop** with consortium end-users on the **detailed design of the Situational Awareness Platform's HMI** and presentation of the IFV training platform.

Two major project milestones have been achieved during the first year of the project implementation: gathering of the user requirements (MS1) and definition of the system architecture (MS2).

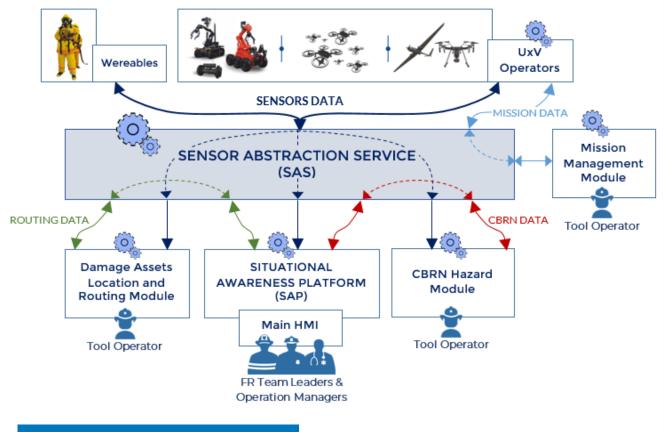


+ ASSISTANCE system architecture

The core of the ASSISTANCE system is the Situational Awareness Platform (SAP) that will receive data from different sensors and sub-systems to integrate all this information and display it through its main HMI in a manner tailored to the various types of the First Responders using the platform. Different ASSISTANCE modules and systems will gather information from sensors and different sources and send the results to the SAP.

All information exchanges in the ASSISTANCE system will be performed through the Sensor Abstraction Service (SAS) module, which will provide a homogeneous manner of exchanging all necessary data among the different ASSISTANCE modules/sub-systems.

The overall ASSISTANCE architecture, its components, interactions and information flows are shown below.



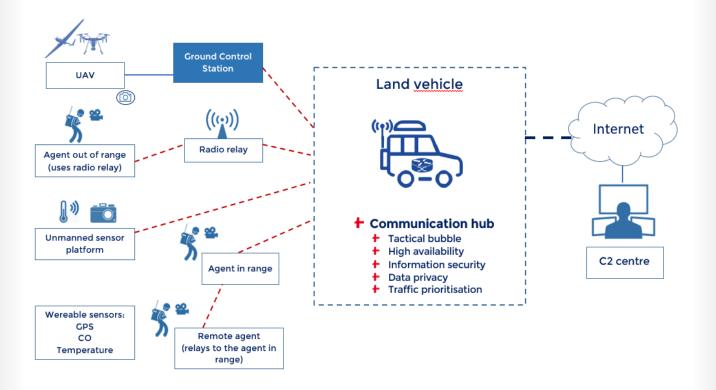
ASSISTANCE Architecture Schema

ASSISTANCE will be tested in three disaster scenarios: earthquake, industrial accident and terrorist attack, using variety of use cases related to different ASSISTANCE modules. In all pilots the SAP will receive video streams and measurements from cameras and sensors mounted on mobile platforms or as wearables. Other data will come from the Damage Assets Location and Routing module, providing the optimum routes (avoiding all potentially dangerous areas or damaged infrastructures detected) as well as from the CBRN Hazard module, which provides information on toxic plumes or gas location and prediction of its evolution. The Mission Management module will publish via the SAS the mission parameters for drones or robots.



In the ASSISTANCE pilots' deployments there will be **two different kinds of C2 centres**, the advanced C2 centre and the rear C2 centre. The advanced C2 centre will be deployed on field and it can be composed by one or several laptops that directly take information from sensors deployed on field and use this information for taking tactical decisions and also for protecting the units deployed on field. **It is possible that different kinds of FRs have their own advanced C2 centre on field**. The rear C2 centre is the entity that has a global view and control of all the components of the ASSISTANCE system.

In order to establish a reliable, resilient, robust and secure connectivity between sensors, UxVs, field units and C2 centres the overall ASSISTANCE communication solution is based on a secure hybrid network approach which will provide the necessary availability and data rates within the latency constraints. It will be able to support the large set of interactions between the field operators and the advanced and rear C2 centres in time-critical missions and will ensure high availability in remote areas outside of the coverage area of common communication networks and/or areas where these networks were disabled due to an emergency event. The high level overview of the ASSISTANCE network architecture is shown in figure below.



ASSISTANCE Network Architecture Schema



+ ASSISTANCE User Community

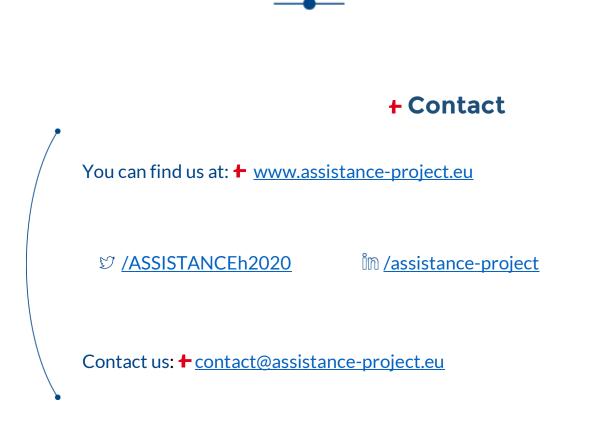
One of the goals for the ASSISTANCE consortium is to establish a broad dialogue with the end-users on the solutions proposed in the project and collect input on expectations as well as feedback on the results. We are aiming to build a large community around the ASSISTANCE project that will encompass various end-users and stakeholders interested in being informed on the progress of the project, its conclusions and results as well as in active engagement and support for different project activities.

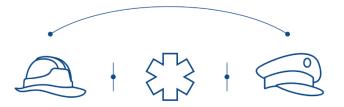
For that reason the **End User Group** has been established and is **coordinated by our end-user partner AAHD** under a dedicated project task.



The committed members of the Group may support and influence the project providing **inputs on end-user needs**, **gaps and existing practices**, **participating in workshops**, **field exercises and demonstrations to provide feedback** and contribution to **dissemination of the project and their results via available communication channels** to create large awareness, which is paramount to preparing the future acceptance and uptake of project results.

If you would like to join ASSISTANCE User Community and become a member of the End User Group please fill in the Letter of Intent available under this <u>link</u> and send to <u>fecarrod@upvnet.upv.es</u>.





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+ H2020 call H2020-SU-DRS02-2018-2019-2020 (Technologies for first responders)

+ Timeline	01/05/2019 - 30/04/2022 (36 months)	
+ Budget	6 393 691.25 Euro	
+ Coordinator	Universidad Politécnica de Valencia	
+ Countries	8	
+ Partners	19	





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