



D8.5 Final Impact Creation Report



Next-generation equipment tools and mission-critical strategies for First Responders

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3	TriaGnoSys GmbH	ZII	DE
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5	FUNDACIÓN CENTRO DE TECNOLOGIAS DE INTERACCION VISUAL Y COMUNICACIONES VICOMTECH	VICOM	ES
6	FUNDACIÓ PRIVADA I2CAT, INTERNET I INNOVACIÓ DIGITAL A CATALUNYA	I2CAT	ES
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18	VALLFIREST TECNOLOGIAS FORESTALES SL	VAL	ES
19	CSI CENTER FOR SOCIAL INNOVATION LTD	CSI	CY
20	FUNDACIO D'ECOLOGIA DEL FOC I GESTIO D'INCENDIS PAU COSTA ALCUBIERRE	PCF	ES
21	FUNDACIÓN DE LA COMUNIDAD VALENCIANA PARA LA INVESTIGACIÓN, PROMOCIÓN Y ESTUDIOS COMERCIALES DE VALENCIAPORT	VPF	ES
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24	Cyprus police	CYPOL	CY
25	DIMOS EGALEO	MoE	GR
26	INSTITUT PO OTBRANA	BDI	BG
27	SMARTEX S.R.L.	STX	IT
28	UPRAVA POMORSKE SIGURNOSTI I UPRAVLJANJA LUKAMA	AMSPM	ME
29	MINISTRY OF NATIONAL DEFENCE, GREECE	HMOD	GR
30	Ministério da Justiça	PJ	PT
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Definitions, Acronyms and Abbreviations

Acronyms/ Abbreviations	Description
AMSPM	Uprava Pomorske Sigurnosti I Upravljanja Lukama
AR	Augmented Reality
ATH	Athonet SRL
BDI	Institut Po Otbrana
CERIDES	Centre for Risk and Decision Sciences
CERIS	Community of European Research and Innovation for Security
COP	Common Operational Picture
CYPOL	Cyprus Police
EC	European Commission
FR	First Responders
HMOD	Ministry of National Defense, Greece
I2CAT	Fundació Privada I2cat, Internet I Innovació Digital A Catalunya
MoE	Dimos Egaleo
MR	Mixed Reality
NCSR	National Center For Scientific Research "DEMOKRITOS"
PCF	Fundació D'ecologia Del Foc I Gestió D'incendis Pau Costa Alcubierre
PJ	Ministério da Justiça
PLV	Ayuntamiento de València – Policía local de València
PRO	Prometech
PSCE	Public Safety Communication Europe Forum AISBL
ROB	Robotnik Automation SLL
ROI	Regions of Interest
UMHAT	University Multiprofile Hospital For Active Traitment "SAINT GEORGE"
UAV	Unmanned Aerial Vehicle
VAL	Vallfirest Tecnologias Forestales SL
VR	Virtual Reality
WP	Work Package
OINF	O Infinity Limited

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Executive Summary

The RESPOND-A project aims at developing holistic and easy-to-use solutions for First Responders by bringing together the complementary strengths of its Investigators in 5G wireless communications, Augmented and Virtual Reality, autonomous robot and unmanned aerial vehicle coordination, intelligent wearable sensors and smart monitoring, geo-visual analytics and immersive geospatial data analysis, passive and active localization and tracking, and interactive multi-view 360o video streaming.

In terms of scientific impact, RESPOND-A has made significant advancements in emergency response and disaster management. Through research, experiments, and the publication of scientific papers, the project has expanded the scientific understanding of emergency response systems, technology integration, decision-making processes, and the dynamics of disaster events. The development of innovative technologies tailored for emergency response, including sensor networks, data analytics, artificial intelligence, and communication systems, has the potential to greatly improve the efficiency, effectiveness, and safety of emergency response operations.

The project's impact on technologies and first responders has been substantial. Technology providers had the opportunity to engage with first responders through trainings, workshops, and pilots, receiving valuable feedback to refine their tools and align them with operational needs. This iterative process has resulted in user-friendly and intuitive technologies that enhance adoption and integration into emergency response systems. First responders, in turn, have benefited from exposure to advanced tools and methodologies, improving their effectiveness, efficiency, and safety in real-life scenarios.

RESPOND-A has maximised its impact through an integrated strategy of communication, dissemination, and exploitation activities. The project has effectively communicated and disseminated its outcomes to a wide range of stakeholders, including the emergency response community, academia, industry, and the general public. By raising awareness and promoting the project's findings, RESPOND-A has laid the foundation for potential collaborations, further advancements, and future applications beyond the project's duration.

1 Overview

1.1 Purpose of the Document

This document reflects the work done in Task 8.1, focusing on outputs the dissemination and communication activities of the project. Specifically, this deliverable refers to the impact of all RESPOND-A activities as well as third party ones which were used to communicate the project and raise awareness to external stakeholders.

1.2 Scope and Intended Audience

The scope of this document is to provide a summary of the final impact creation of the RESPOND-A project. It aims to highlight the scientific impact, the impact on technologies and first responders, as well as the integrated strategy of communication, dissemination, and exploitation activities implemented throughout the project. The document also includes key performance indicators (KPIs) related to dissemination and communication, presenting a comprehensive view of the project's outreach efforts. Additionally, it provides a detailed list of all dissemination activities and publications to demonstrate the actions taken by partners to raise awareness and communicate the project's outcomes.

1.3 Structure of the Document

- Section 2: Analysis of the impact created by the RESPOND-A project for the final year of the RESPOND-A project, between months 25 and 36.
- Section 3: Presentation of the measures taken to maximise the impact of the project. This refers to the Dissemination and Communication activities.
- Section 4: Conclusion.

1.4 Referenced Documents

Dissemination and Communication KPIs for the RESPOND-A pilots were obtained from D7.3, D7.4 and D7.5 respectively, where the three pilots are extensively presented. Information relating to the 4th and 5th training were attained from the deliverables D6.5 and D6.6.

2 Final impact creation in RESPOND-A

2.1 Scientific Impact

The importance of scientific, societal and training impact was extensively presented already in D8.3, Initial Impact Creation Report. In D8.4, scientific publications submitted during the second year of the project were presented. A significant effort to promote the project through the publications of scientific and research papers that had been presented in international conferences. Throughout the duration of the project, technical and non-technical partners worked together to promote the technologies developed in RESPOND-A relating to emergency use cases.

Overall, RESPOND-A enabled advancement of knowledge by conducting research and experiments in the field of emergency response and disaster management. Through data collection, analysis, and demos, the project generated outcomes which can expand the scientific understanding of emergency response systems, technology integration, decision-making processes, and the dynamics of disaster events. Also, the development of innovative technologies specifically designed for emergency response include progresses in areas such as sensor networks, data analytics, artificial intelligence, remote sensing, communication systems, and human-computer interaction. The advancement of the RESPOND-A solutions can improve the efficiency, effectiveness, and safety of emergency response operations. Through the trainings and pilots executed, RESPOND-A provided empirical evidence to validate the challenges addressed in the beginning of the project, demonstrating how novel technologies can be used to best manage disaster and emergency response.

2.2 Impact on Technologies and First Responders

Throughout the RESPOND-A project, technology providers had the opportunity to present their tools to First Responders through trainings, workshops and the pilots. Hence, constructive feedback was received in what's needed for their technologies to perform better as well as fine tune certain aspects that would be more suitable to the end-users in a real-life scenario. This iterative process allowed for the further development of the technologies that better align with the operational needs and constraints faced by first responders in real-life emergency response scenarios. This can result in more user-friendly and intuitive tools, ultimately improving their adoption and integration into emergency response systems. Further, feedback received served as valuable validation of the technologies' performance and can lead to further scientific advancements and/or optimisations to improve the overall efficacy of the tools.

Through the RESPOND-A's trainings, workshops, and pilots, first responders had the opportunity to engage with and assess innovative technologies specifically designed for emergency response. This exposure helped them enhance their technological capabilities by introducing them to advanced tools, systems, and methodologies which can potentially improve their effectiveness, efficiency, and safety in real-life scenarios. First responders gained hands-on experience in utilising and incorporating these technologies into their response operations through the training and pilot scenarios.

2.3 Dissemination and Communication KPIs

RESPOND-A's Objective 8 focuses on disseminating and communicating the technological, conceptual, and practical outcomes of the project to increase awareness of its impact among Responder organisations and the wider community. It also aims to leverage synergies with other EU projects. To achieve this and optimize the impact, the project set specific Key Performance Indicators (KPIs) as follows.

Table 1 Dissemination and Communication KPIs for Year 3 of RESPOND-A project

No.	KPI	Current Numbers	Final target (M36)	Current status
1	Participation in third party events and exhibitions	65	10	Target Achieved
2	Organisation of project webinars	5	5	Target Achieved
3	Number of scientific publications	20	20	Target Achieved
4	Documented guidelines and training methods for FR	5	5	Target Achieved
5	Number of organised events, EU project synergies, Workshops	6	5	Target Achieved
6	Joint publication with other EU projects	4	3	Target Achieved
7	Unique visits on RESPOND-A website	9k+	7000	Target Achieved
8	Twitter followers	680	350	Target Achieved
9	Media interviews, press and news releases	10	6	Target Achieved
10	Newsletters and white papers	6	6	Target achieved
11	Videos	12	6	Target Achieved

The table of KPIs shows that objectives were reached for M36, with some indicators being well above the expected target. This is especially highlighted in online activities (website visits, social media followers and newsletter followers). The RESPOND-A webinars were also key for enhancing the project's visibility and enlarge the community of followers (both to social media and the newsletters).

3 RESPOND-A Year 3 Activities

3.1 RESPOND-A Webinars

During its lifespan, the RESPOND-A consortium has conducted a series of webinar with a threefold objective:

- Raise awareness and increase the visibility of RESPOND-A online
- Provide a platform for discussion on emerging innovative technologies for first responders
- Provide a platform for discussion between the consortium and external entities and experts, including EU projects (clustering dimension)

The two first webinars, respectively addressing **Augmented and Virtual Reality** (April 2021) and **Sensors and Smart Wearables** (November 2021) were organised during the first 2 years of the project. Three (3) additional webinars were conducted during the last year of the project, as described below.

3.1.1 Mission Critical Technologies Webinar – June 2022



This third RESPOND-A Webinar took place on 27 June 2022 and focused on Mission Critical Communications Technologies. More than 70 participants from across Europe attended the webinar which provided the state-of-the-art on MCX technologies and presented how these technologies are integrated as part of the project. The European Commission described its planning and priorities with regards to 5g/6g, also highlighting some relevant use cases in the field of Public Protection and Disaster Relief. Finally, relevant projects (BroadWay/Search&Rescue) also contributed to the programme.

The webinar presentations are available [here](#).

The webinar recording is available on the [YouTube channel](#).

3.1.2 Clustering webinar @ Nicosia Risk Forum 2022 – November 2022

On 16 November 2022, as part of the Nicosia Risk Forum 2022, 6 EU-funded projects participated to a clustering session on new technologies for first responders at the initiative of the RESPOND-A Project. The session allowed projects working in the same field to connect as well as share knowledge and lessons learnt. Inter-projects initiatives are essential for the development of these projects and are in-line with the work carried out by the European Commission DG HOME's CERIS (Community for European Research and Innovation for Security) which is bridging the various actors of the European PPDR (Public Protection and Disaster Relief) community to identify gaps, create synergies and facilitate the uptake of innovation by society.

The webinar recording is available [here](#).

The joint press release is available [here](#).

3.1.3 Robots and Unmanned Vehicles for First Responders – November 2022

This fourth RESPOND-A Webinar took place on 29th November 2022 and focused on Robots and Unmanned Vehicles to support First Responders Operations. We provided the state-of-the-art and discussed how these technologies are integrated as part of the RESPOND-A project. Relevant projects (Search&Rescue/Intrepid) developing these technologies as well as the German Rescue Robotics centre contributed to the programme. 80 participants attended the webinar from Europe and worldwide. The webinar presentations, recording as well as a press release are available [on this page](#).

[Information and materials related to the webinars are all available on the Webinar page of the RESPOND-A website.](#)

3.2 RESPOND-A Trainings

Trainings are internal project events, but were used to raise awareness about RESPOND-A and its technologies. Trainings were promoted on online media with pictures, videos with the objective to elicit interest in the work and activities carried out in the project. Various materials (press releases, pictures, videos) of the trainings are available [on the website in the training section](#).

3.2.1 4th Training – June 2022

The third RESPOND-A training was held in Bulgaria on 8th and 9th of June 2022. A total of 50 attendees participated in the 4th training, practitioners from across Europe (Bulgaria, Spain, Cyprus) and was aimed at familiarising first responders to use new solutions while giving technology providers the opportunity to test and collect feedback on their products. The training was articulated around three phases to simulate a real disaster scenario. The first was the data collection phase, during which technologies, such as smart body health and environmental sensors, were used to gather key information from heterogeneous sources. During the second phase, data processing, data is aggregated and translated to be further usable by crisis managers. The last was the data usage phase, where information is received by crisis managers who then rely on specific technologies that improve the coordination and overall management of the emergency response. A detailed description of preparation, methodology and execution of the 4th training of RESPOND-A project was provided in D6.5.

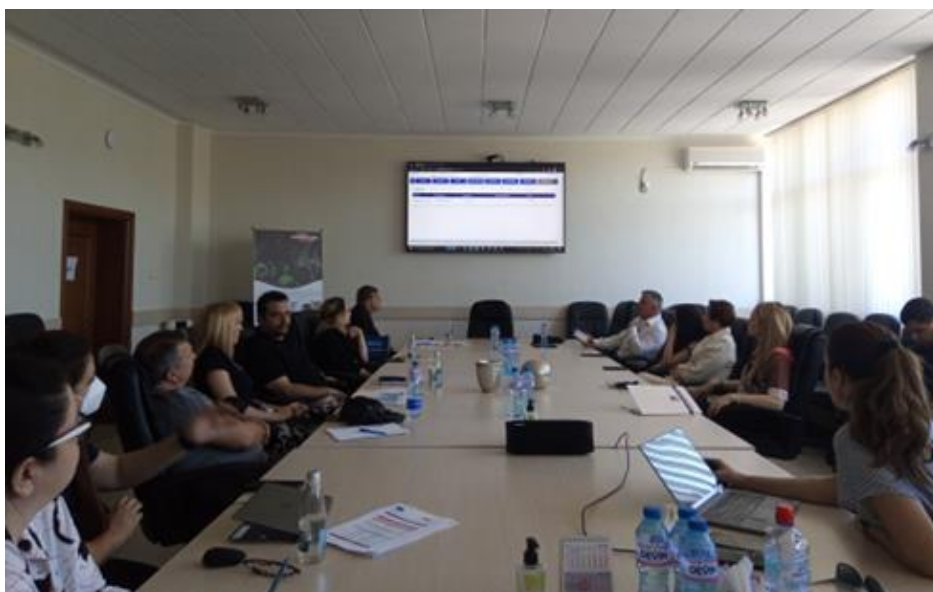


Figure 1 Training session with end-users during the 4th Training

3.2.2 5th Training – February 2023

The fifth and last training session took place on the 14th and 15th of February 2023 under a full face-to-face format in Valencia (Spain). It focused on port and maritime search and rescue emergencies as it was demanded by the host organisation (Valencia Port Foundation (VPF)). The event included hands-on exercises at workstations for First Responders to test and provide feedback for the technologies that can be used in such emergency environments. In addition, a serious game and a rehearsal of the final pilot were carried out in order to ultimate details and to prepare FR for the event. A total of 101 participants attended the training session, including First Responders (45), Technical Providers (38), and others (18). A detailed description of preparation, methodology and execution of the 5th and final training of RESPOND-A project was provided in D6.6.



Figure 2 Social Media Post from the RESPOND-A page for the 5th Training in Valencia

The RESPOND-A project's trainings and pilots help demonstrating, testing, and evaluating the project's technologies in real-life scenarios which are crucial for refining and optimising solutions. They enable technology providers to receive feedback from end-users after hands-on experience for further improvements. Further, such events, not only help the exploitation of technologies through exposure to the end-users, but also through distributed media coverage, increasing in this way awareness among external stakeholders that would potentially facilitate broader adoption after the project comes to an end.

3.3 RESPOND-A Pilots

Despite the project’s pilots being a technical event, they were used to communicate the project to external stakeholders and raise awareness through social media, videos and press releases. Below, a brief description of each pilot is presented along with the KPIs set and achieved regarding dissemination and exploitation.

3.3.1 Greek Pilot – September 2022

On 22nd September 2022, the Greek pilot of RESPOND-A project was executed in Egaleo, close to the city centre of Athens. The pilot, led by MoE and NCSR D, gathered technology providers and first responders of the project as well as external end users (RSF Hellas), people from the media and the mayor of Egaleo. A total of 17 FRs were participated, either actively engaged or observing, while 10 out of 17 were external attendees. The demonstration was organized in such a way, so the viewers could watch the whole action without interfering with it, having also the opportunity to approach the mobile C&C centre (hosted in the emergency van) and experience the RESPOND-A platform. The Greek pilot scenarios, technologies tested, risks and challenges have been described in D7.4.

Figure 3 Factsheet for Greek Pilot as showcased on RESPOND-A Website

Table 2 Dissemination and Exploitation KPIs, description and targets for the Greek Pilot

KPI ID	Name	Description	Target	Achieved Number
KPI.EXPL.1	External attendees	RSF Hellas	7	10
KPI.EXPL.2	Answers to the evaluation survey	External and internal attendees	7	17
KPI.EXPL.3	Press Releases	Official press release on web site	1	1

KPI.EXPL.4	Press Release per use case relayed in at least one local press/ journal	CNN Newsbase.gr Agrinio24.gr	1	3
KPI.EXPL.5	Social media posts about the use cases from the social media profiles.	Twitter, linkedin, youtube	10	12
KPI.EXPL.6	Engagement on social media	Twitter, linkedin, youtube	50	95

3.3.2 Cyprus Pilot – October 2022

On 19th October 2022, the Cyprus Pilot of the RESPOND-A project was executed near Larnaca in Cyprus. The pilot, led by IANUS Consulting, gathered RESPOND-A technology providers, first responders from the Cyprus Fire Service (CFS) and the Greek Civil Protection (RSF Hellas), representation from Ambulance Response and the First Aid Department of Civil Defence. Overall, a total of 21 First Responders participated in the pilot. The pilot was organised so that external viewers were able to observe both the actions in the C&C Centre as well as the actions taking place on field. The Cyprus pilot scenarios, technologies tested, risks and challenges were described in D7.3.

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NEXT-GENERATION EQUIPMENT TOOLS AND MISSION-CRITICAL STRATEGIES FOR FIRST RESPONDERS

RESPOND-A PILOT: FOREST FIRE

Larnaca, Cyprus | 19 October 2022

The Cyprus pilot will test several tools and services developed as part of the RESPOND-A project in a severe forest fire incident broken down into 4 sub scenarios.

Scenario 1: A severe forest fire breaks out. Crisis managers assess the situation and the affected area to ensure an effective deployment of First Responders on the ground. Technologies and support tools are used for area monitoring and real-time visualisation data collection.

Scenario 2: Some FRs go missing and go through triage procedure and medical when found.

Scenario 3: Citizens attempting to escape the fire get involved in a car accident and require rescue.

Scenario 4: The fire approaches a highly critical area and the First Responders require to deal with the fire before it gets out of control. The exercise will involve the participation of local first responders from the Cyprus Fire to ensure a more realistic execution of the scenario. Feedback will then be gathered on the various technologies and services used.

Technologies tested

Overall, the following areas will be tested and evaluated:

- Common Operational Picture Applications
- Real-time Disaster Scene/ Area Management system
- UAV operations and satellite communications backhaul link for drones
- Interactive and low-latency multi-view 360° VR video system (drone, helmet/ glasses)
- AR/VR technology
- Sensors and Smart Wearables for First responder health status monitoring

This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No. 883371

Organised by: IANUS Consulting

Figure 4 Factsheet for Cyprus Pilot as showcased on RESPOND-A Website

Table 3 Dissemination and Exploitation KPIs, description and targets for the Cyprus Pilot

KPI ID	Name	Description	Target	Achieved Number
KPI.EXPL.1	External attendees	<ul style="list-style-type: none"> RSF Hellas Civil Defence (First Aid Dep.) Ambulance Response Unit Cyprus Fire Service 	7	21

KPI.EXPL.2	Answers to the evaluation survey	<ul style="list-style-type: none"> • RSF Hellas • Civil Defence (First Aid Dep.) • Ambulance Response Unit • Cyprus Fire Service 	7	21
KPI.EXPL.3	Press Releases	Official press release on web site	1	1
KPI.EXPL.4	Press Release per use case relayed in at least one local press/journal	Post-event press release	1	1
KPI.EXPL.5	Social media posts about the use cases from the social media profiles.	Linked In + Twitter	10	13
KPI.EXPL.6	Engagement on social media	Linked In + Twitter	50	105

3.3.3 Spanish Pilot – February 2023

On 16th February 2023, the Spanish Pilot of the RESPOND-A project was executed in the city of Valencia near to the port. The pilot, led by Valencia Port Foundation (VPF) with the support of the Valencia Local Police (PLV), gathered RESPOND-A technology providers and first responders, external first responders involved in the development in the pilot as Civil Protection Valencia, Valencia Province Fire Service, Valencia Municipality Fire Service, Mooring Service, Valencia Port Police and Red Cross Valencia. Overall, a total of 144 people from 19 external companies or organisations participated in the pilot. The pilot was carried out both in the Edificio del Reloj in the Marina of Port of Valencia, as well as on the esplanade in front of this building and on the quay facing it. To facilitate the visibility of all attendees of the Advanced Command & Control Centre, it was set up inside the Edificio del Reloj. A detailed report on the Spanish pilot can be found in D7.5.

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NEXT-GENERATION EQUIPMENT TOOLS AND MISSION-CRITICAL STRATEGIES FOR FIRST RESPONDERS
RESPOND-A PILOT: FIRE AND OIL SPILL

Valencia, Spain | 16 February 2023

Traffic accidents involving dangerous goods vehicles are particularly serious not only because of the direct material and personal damage, but also because of their subsequent impact on the infrastructures and ecosystems in which they occur. According to the latest statistics from the Spanish Ministry of Transport, 20% of all accidents involving dangerous goods are caused by loss or spillage of the goods. The transport of diesel fuel is where most accidents occur (39%). The pilot scenario will illustrate an accident between two vehicles affecting both the land area (city of Valencia), endangering drivers, civilians and workers passing through this area, and the water area (Port of Valencia), where small pleasure boats and vessels related to port activity are moored.

Technologies tested

- Common Operational Picture Applications
- Real-time Disaster Scene/ Area Management system
- UAV operations and satellite communications backhaul link for drones
- Reconnaissance and Rescue Robots
- AR/VR technology
- Sensors and Smart Wearables for First responder health status monitoring

Overall, the following areas will be tested and evaluated

This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No. 883371

Organised by:
 • Fundación Valenciaport
 • Valencia Local Police

@respond_a
 Respond A Project
 Respond A

Figure 5 Factsheet for Spanish Pilot as showcased on RESPOND-A Website

Table 4 Dissemination and Exploitation KPIs, description and targets for the Spanish Pilot

KPI ID	Name	Description	Target	Achieved Number
KPI.EXPL.1	External attendees	<ul style="list-style-type: none"> • Civil Protection Valencia • Cyprus Fire Service • Valencia Province Fire Service • Valencia Municipality Fire Service • Mooring Service • Valencia Port Police • Guardia Civil • National Police • Mossos d'Esquadra • Barcelona Urban Guard • Benidorm Local Police (Dron Unit) • Valencia Council (Las Naves, Research & Development Department) • Red Cross Valencia • Etrair • Axon • Alkime • Eagledron • Satara • Global Tech Strategies 	7	19
KPI.EXPL.2	Answers to the evaluation survey	FRs without identify	7	19
KPI.EXPL.3	Press Releases	Official press release on web site and other webs	1	7
KPI.EXPL.4	Press Release per use case relayed in at least one local press/journal	<ul style="list-style-type: none"> • https://www.diarioelcanal.com/tecnologia-en-situaciones-de-emergencia/ • https://www.elestrechodigital.com/2023/02/16/el-puerto-de-valencia-prueba-el-proyecto-respond-a/ • https://www.cadenadesuministro.es/noticias/el-puerto-de-valencia-prueba-el-uso-de-tecnologias-para-responder-a-una-emergencia/ • https://www.valenciaport.com/el-puerto-de-valencia-testea-el-uso-de-tecnologias-innovadoras-ante-una-emergencia/ 	1	4
KPI.EXPL.5	Social media posts about the use cases from social media profiles.	Linked In + Twitter	10	> 70
KPI.EXPL.6	Engagement on social media (likes and/or retweets per use case).	Linked In + Twitter	50	268

3.4 RESPOND-A Final Conference

The RESPOND-A final conference was held on the 25th of April 2023 in Nicosia at CERIDES - European University Cyprus. Apart from the overview and the results of all pilot projects carried out in several countries, it offered the possibility both on-site and online to any interested party to join and see the key technology that was designed, tested and implemented in the framework of this project: sensors and smart wearables, critical communication systems and other rescuer connectivity technologies, data fusion tools the coordination of rescuers' data as well as other technologies for the development of RESPOND-A. The final conference has been the object of a dedicated communication and promotional campaign that started in January 2023.



Next-Generation Tools and Technologies for CRISIS MANAGEMENT

The RESPOND-A Hybrid Conference

European University of Cyprus, Nicosia | 25 April 2023

We will present and exhibit advanced equipment and tools to enhance the capabilities and safety of first responders in crisis situations, including:

- Sensors & Smart Wearables
- Mission Critical Communication Systems and Connectivity Technologies
- Mission coordination data fusion tools
- Robots and Unmanned Vehicles
- Augmented & Virtual Reality technologies

Info and registration
@ www.Respond-a-project.eu

@respond_a
Respond A Project

This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No. 883371

Figure 6 Factsheet for the RESPOND-A final Conference

The conference had a total of 95 attendees, with relevant local actors from the Cyprus PPDR ecosystem including Cyprus Police, the Cyprus Fire Service and the National Civil Defence officials. The conference was also attended by representatives of the Sovereign Base Area Police and Fire Service. The significant amount of work done during the duration of the project and the results produced were presented at the conference in the presence of a representative of the European Commission. Within these three years, thousands of pages of deliverables were written while, countless meetings between partners, open webinars for the public, five rescuers / first responders' trainings and three exercises in Greece, Cyprus and Spain took place.



Figure 7 Pictures taken during the RESPOND-A Final Conference

There were two keynote speakers from Greece at the conference in Nicosia namely Dr Ioannis M. Dokas, Associate Professor at the Democritus University of Thrace and Dr Theodore Giannaros Associate Researcher at the Institute for Environmental Research & Sustainable Development of the National Observatory of Athens. Several partners attended the event in physical presence while others attended the final conference online. Overall, the conference contributed to significantly raise interest about the project activities and achievements. Overall engagement, especially through online media, was very high with more than 60 reactions on project’s LinkedIn page, and the project coordinator’s post receiving more than 160 reactions.

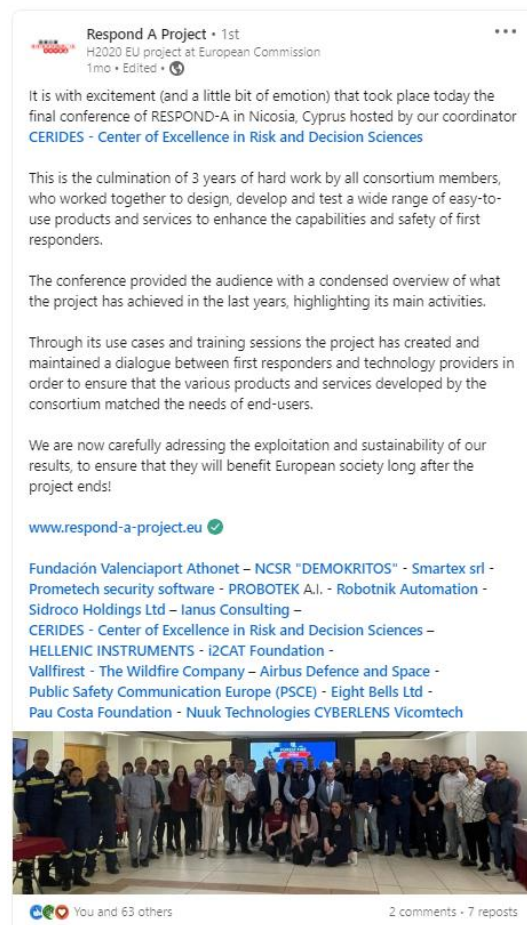
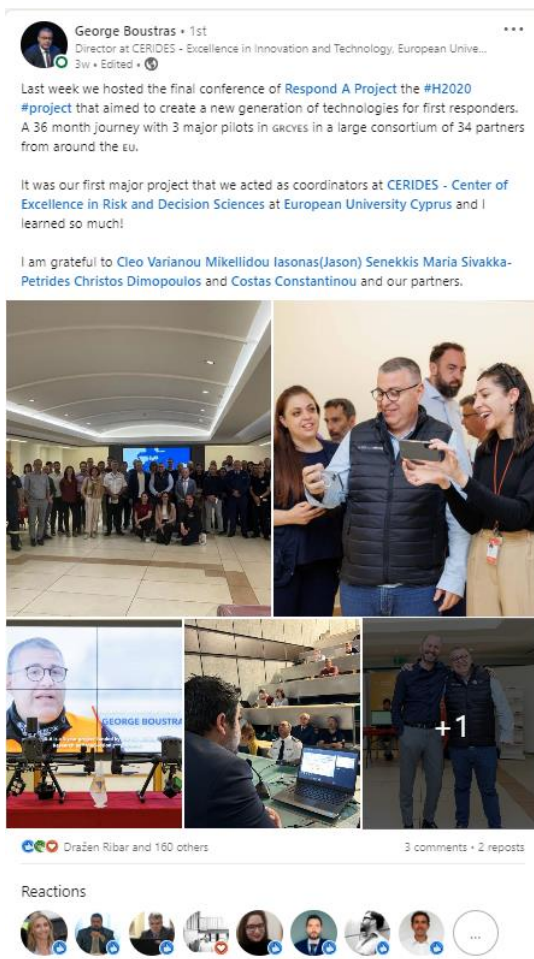


Figure 8 LinkedIn Post by the Project Coordinator for the RESPOND-A final Conference

4 Measures to Maximise Impact

Maximising the impact of research is crucial to enable the value of results to be potentially wider than the original focus. Hence, measures are being taken to enhance the effort through different communication and dissemination activities. Strategic communication and dissemination can help explain the wider societal relevance of the project’s outcomes, build support for future research and innovation funding; as well as ensure uptake of results to a wider community, potentially opening business opportunities for novel products and services.

4.1 Communication Activities

For effective communication among project partners as well as outside entities, a fast, reliable, and easily accessible communication infrastructure was crucial. A set of communication tools was set up including the project website, and social media pages to enable efficient exploitation of information to the targeted audience.

4.1.1 Project Website

Continued updates on the project’s website kept the public, project participants and the EC informed about the RESPOND-A activities. The website is the central dissemination & communication platform of RESPOND-A which contains extensive information and materials on RESPOND-A achievement and activities. During the third year of the project, the website has been updated with relevant and eye-catching materials related to the RESPOND-A webinars, trainings and pilots.

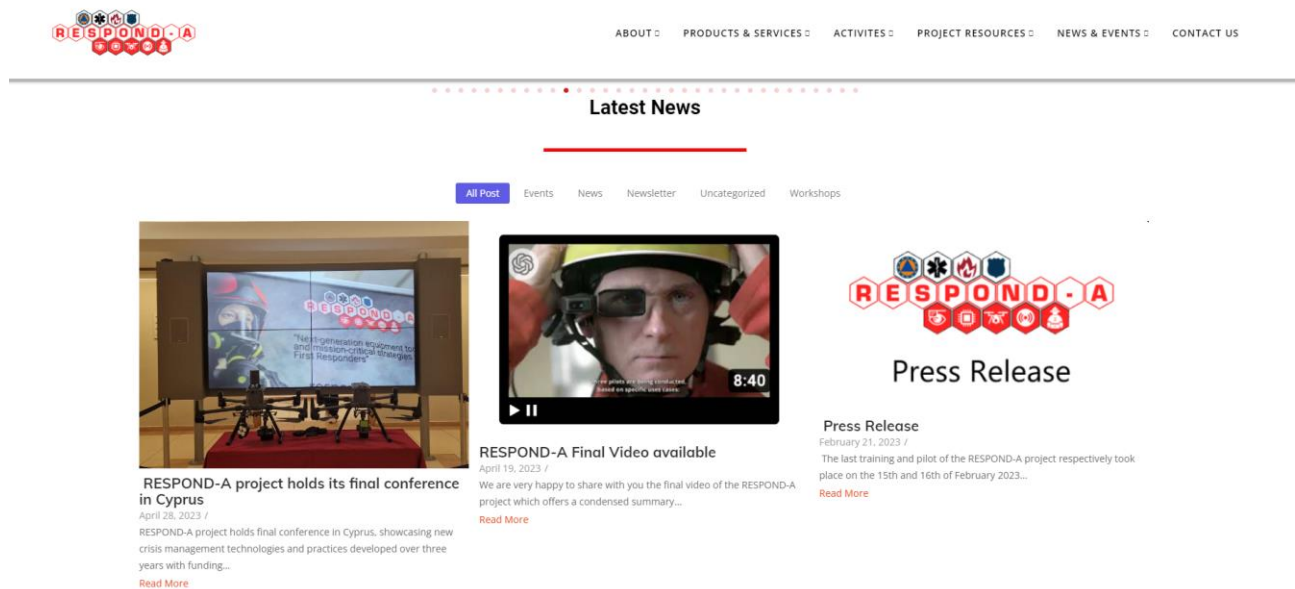


Figure 9 RESPOND-A Website – Latest News

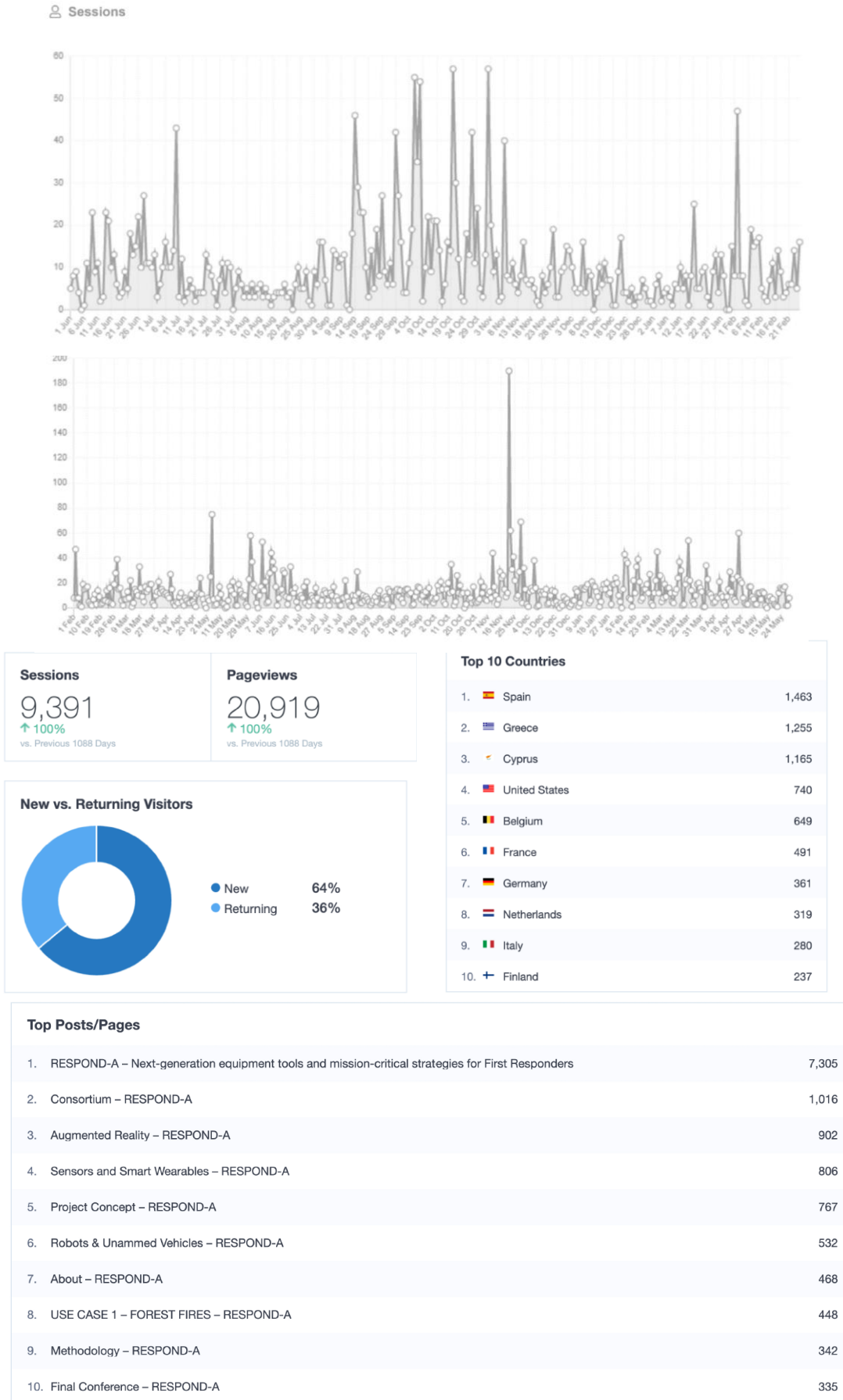


Figure 10 Engagement statistics of RESPOND-A website since the beginning of the project

4.1.2 Social Media

Social media activity is being used to raise awareness about the project, reach out and engage with external stakeholders. RESPOND-A is present on Twitter [@respond_a](#) and LinkedIn [@Respond A Project](#) with regular advertising the project’s achievements, workshops and activities. Project partners have shared and promoted the project through their respective social media channels and websites, amplifying its impact. The statistics pertaining to website visitors, Twitter engagement, and LinkedIn activity are detailed in Annex 1, demonstrating the efficacy of communication in reaching a broader audience.

In total, RESPOND-A has earned 689 followers on Twitter and issued 967 tweets. The project has 561 connections on LinkedIn. On YouTube, the project has posted 12 videos and 32 subscribers.

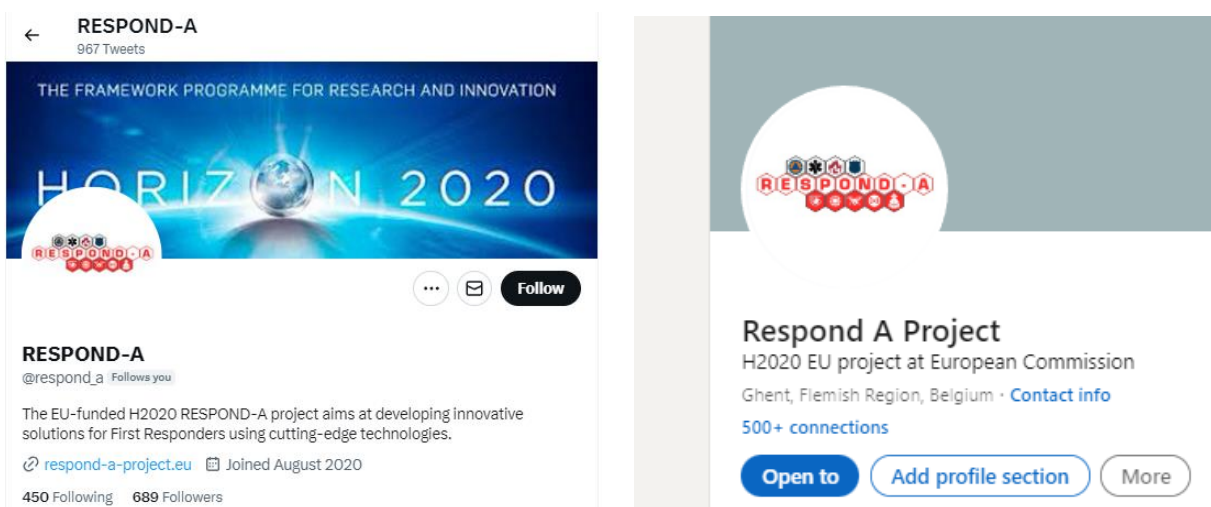


Figure 11 Twitter and LinkedIn pages for RESPOND-A help raising awareness about the project and reaching external stakeholders.

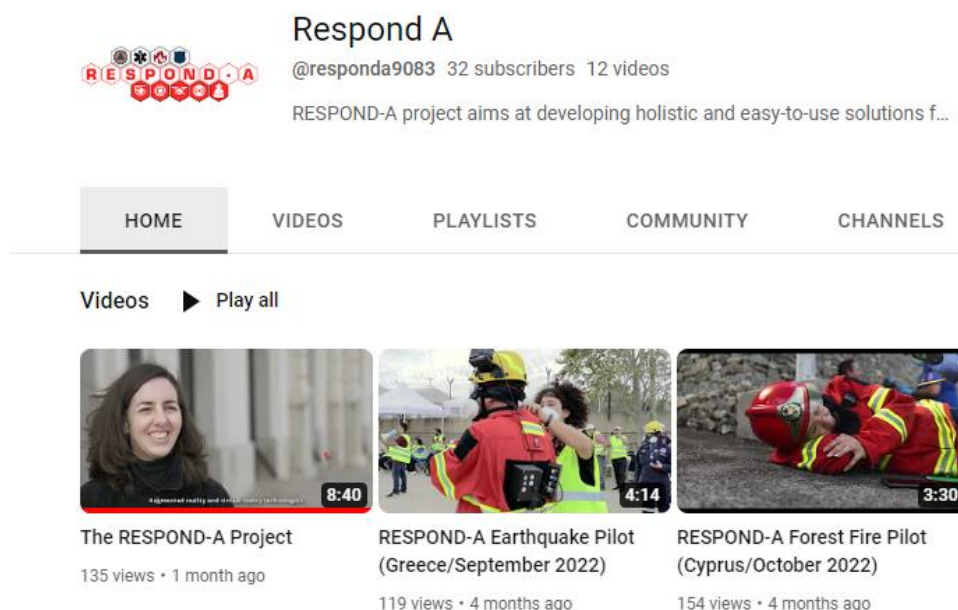


Figure 12 RESPOND-A project’s YouTube Channel

A link to the YouTube channel is provided in the [video section of the RESPOND-A website](#).

4.1.3 Media

Over the final year, the RESPOND-A consortium has released six press releases to showcase the significant milestones and activities of the project, such as trainings and webinars. A total of 10 press releases were released throughout the duration of the project and distributed to international and specialized media. These project press releases can be accessed on a [dedicated page](#) of the RESPOND-A website.

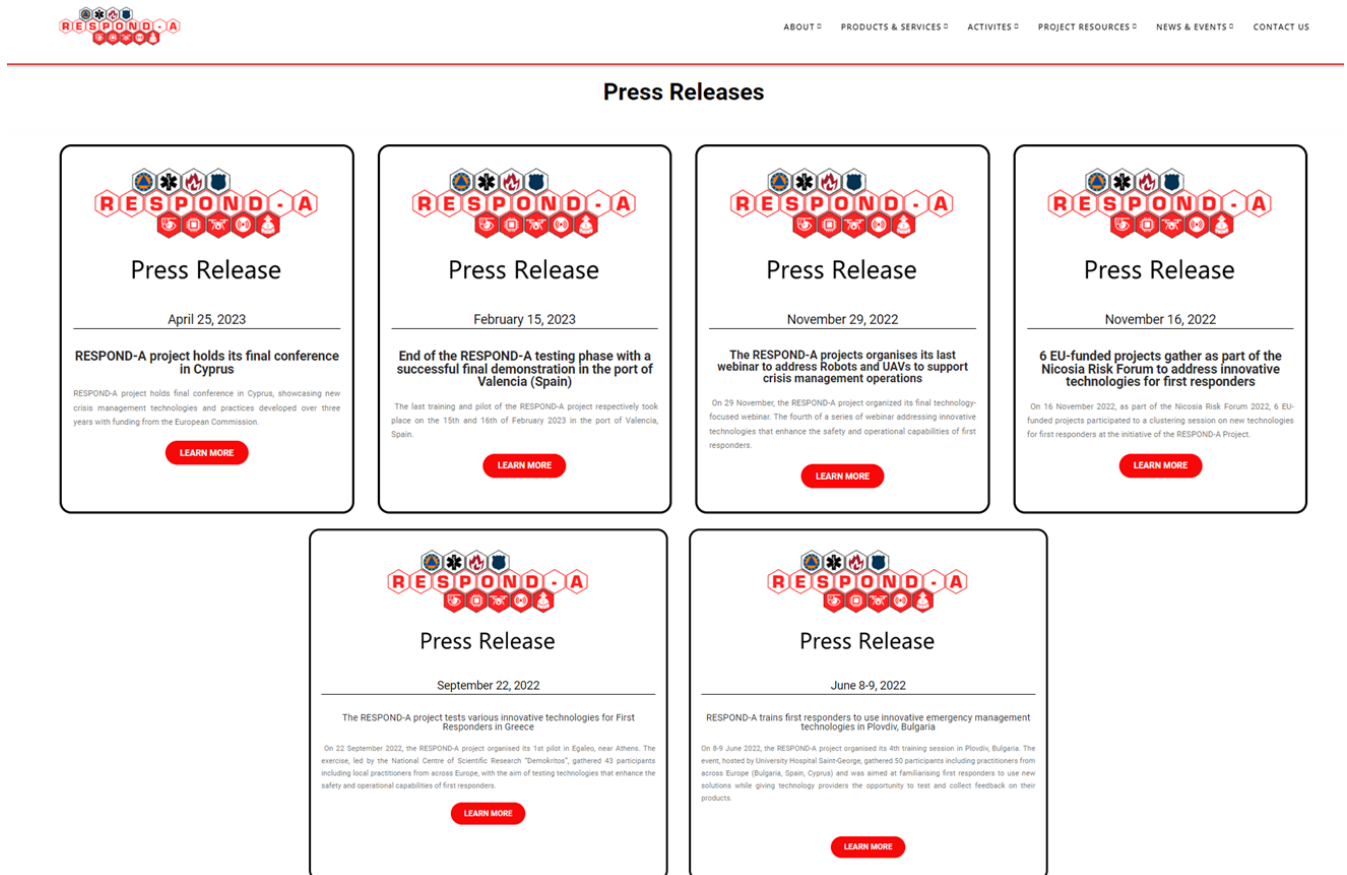


Figure 13 Six press releases of the RESPOND-A project over the last year

Further, the project has been featured in external media and press. The most recent articles are presented below:

Table 5 Links to media released for RESPOND-A

Cyprus media:
<ul style="list-style-type: none"> https://www.alphanews.live/cyprus/prostateyontas-toys-diasostes https://www.sigmalive.com/news/local/1094275/i-kypros-syntonizei-europaiko-ergo-gia-kalyteri-prostasia-ton-diasoston https://www.youtube.com/watch?v=9OOPt57kxtw
Greek Pilot, Online Media
<ul style="list-style-type: none"> https://www.cnn.gr/ellada/story/330542/epideiksi-epixeirisis-diasosis-me-drones-rompot-kai-thermikes-kameres-apo-ton-dimokrito https://newsbase.gr/2022/09/epideixi-epixeirisis-diasosis-me-drones-rompot-kai-thermikes-kameres-apo-ton-dimokrito-2433746.html

Valencia pilot, online Media:

- [El Puerto de València testea el uso de tecnologías innovadoras como drones y robots ante una emergencia \(europapress.es\)](https://www.europapress.es)
- [El Puerto de Valencia testea el uso de tecnologías innovadoras ante una emergencia \(abc.es\)](https://www.abc.es)
- [Drones y robots con sensores: el Puerto de Valencia testea el uso de nuevas tecnologías para emergencias \(larazon.es\)](https://www.larazon.es)
- [El puerto de Valencia prueba la tecnología en situaciones de emergencia | El Canal Marítimo \(diarioelcanal.com\)](https://www.diarioelcanal.com)
- [El puerto de Valencia prueba el proyecto RESPOND-A | El Estrecho Digital](#)
- [El Puerto de València testea el uso de tecnologías innovadoras ante una emergencia – Valenciaport](#)
- [El puerto de Valencia prueba el uso de tecnologías para responder a una emergencia – Cadena de suministro](#)

Valencia pilot, TV

- [Simulacro en Puerto de Valencia testea las nuevas tecnologías ante emergencias | Parte 1 \(europapress.tv\)](#)
- [Simulacro en Puerto Valencia para "mejorar" la respuesta en situaciones de emergencia | Parte 1 \(europapress.tv\)](#)
- [Video noticia de TVE](#)

4.1.4 Videos

During the third year, the consortium has created the RESPOND-A final movie which captures the main tools and activities carried out throughout the project. The video was shot during the last demonstration in Valencia and offers a condensed overview of what the project has achieved during three years. The video features eye-catching footage of the RESPOND-A technologies used in operations as well as interviews of key partners. The video is available here <https://www.youtube.com/watch?v=1YWSEMmrhc>



Figure 14 RESPOND-A project video

A total of 12 videos were published over the course of the RESPOND-A project, six of which were published over the last year.

- Mission Critical Communications Tech: State-of-the-Art and Future Solutions (RESPOND-A Webinar) – 27th June 2022 - (click [here](#))



- Clustering session on New Technologies for First Responders – Nicosia Risk Forum 16th November 2022 (Click [here](#))



- Robots and Unmanned Vehicles to support First Responders operations (RESPOND-A Webinar) – 29th November 2022 (click [here](#))



- RESPOND-A Earthquake Pilot (Greece/September 2022) (click [here](#))



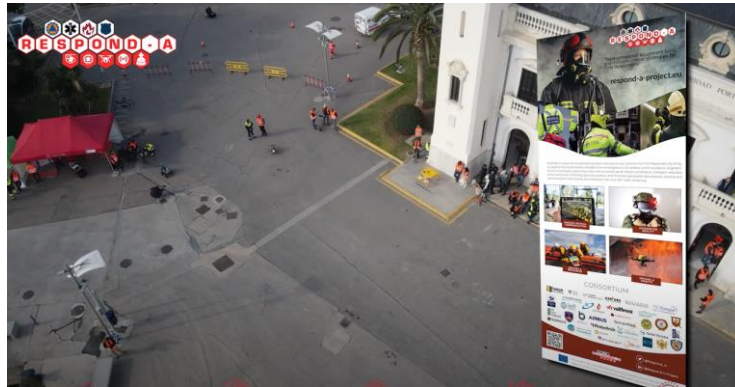
- RESPOND-A Forest Fire Pilot (Cyprus/October 2022) (click [here](#))



- RESPOND-A Truck accident causes fire and oil spill (Spain/ February 2023) (click [here](#))



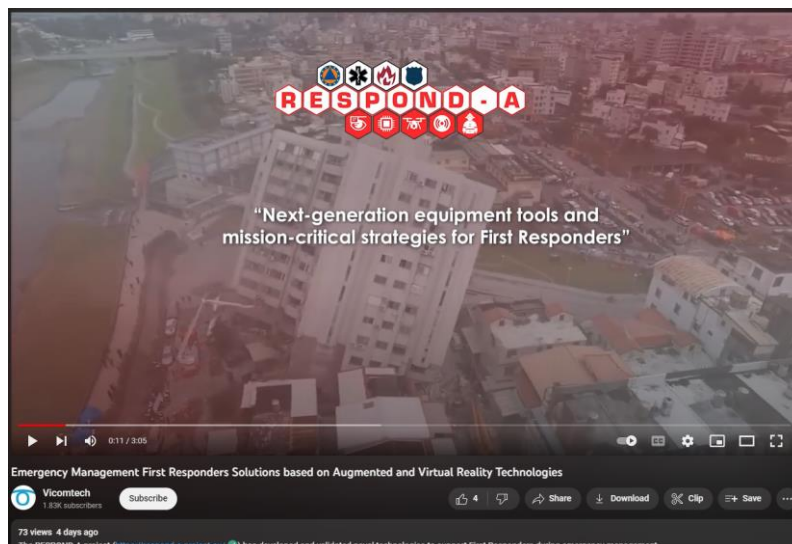
- RESPOND-A Pilot in Valencia (Spain/ February 2023) (Click [here](#))



- RESPOND-A Valencia Pilot short video for social media (Spain/ February 2023) (Click [here](#))



- VICOM published a short video on Emergency Management First Responders Solutions based on Augmented and Virtual Reality Technologies, summarising their participation in the project. (Click [here](#))



4.1.5 Newsletters

A total of 5 newsletters were published throughout the RESPOND-A project, two of which over the last year of the project. Newsletter #4 summarised the training in Bulgaria as well as other dissemination actions by the RESPOND-A Consortium such as the RESPOND-A MCX Technologies Webinar and other promotion events around Europe. Newsletter #5 announced both the Training and Final pilot in Valencia, as well as the Final RESPOND-A workshop. It also presented different dissemination activities of the project. The RESPOND-A newsletters have 350 total subscriptions. The newsletters can be found [here](#). In addition, a joint newsletter with 6 other EU projects as part of the Safety F.I.R.S.T Cluster was published.

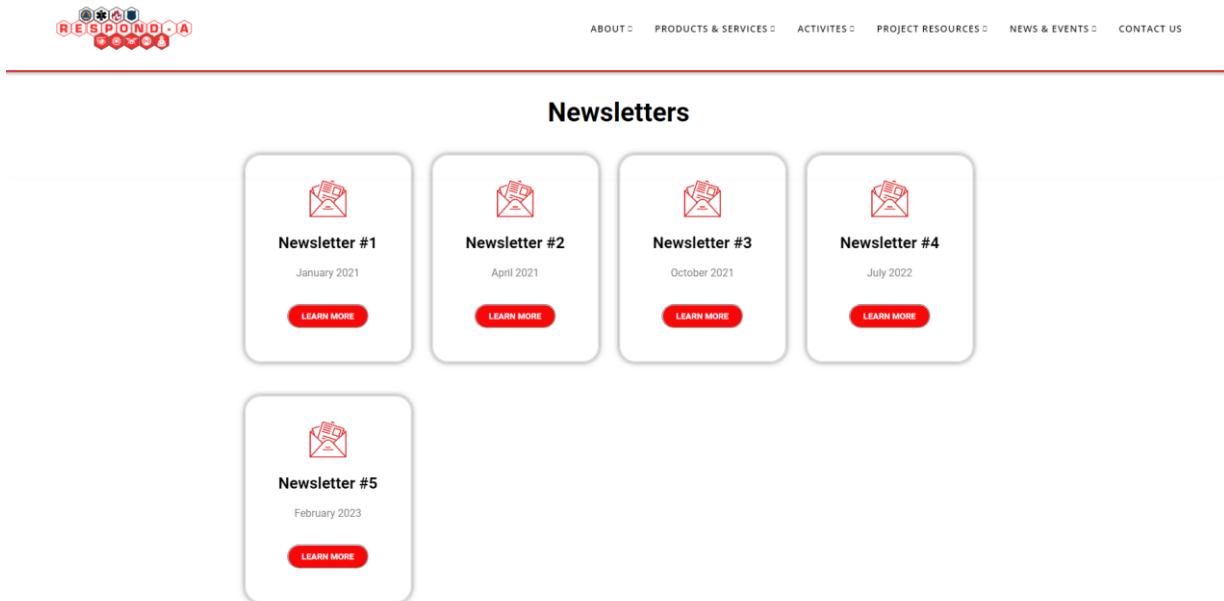


Figure 15 RESPOND-A Newsletters published



[INTREPID](#), [INGENIOUS](#), [RESPOND-A](#), [FASTER](#), [PathoCERTASSISTANCE](#), and [CURSOR](#) joined forces and created **Safety F.I.R.S.T. Cluster**. Together, we operate in the mobilisation of responses in crisis situations. We think that this **synergy** represents a great opportunity to exchange knowledge and best practices, communicate project activities and results, collaborate on crisis management, security, and search and rescue-related issues. To kick off our joint activities we have taken part in the European Commission's service [Horizon Results Booster](#) and produced a joint [video](#) which you can watch below.

Figure 16 Safety F.I.R.S.T. Newsletter

4.2 Dissemination Activities

During the third and final year of the project, RESPOND-A has been presented in external workshops and webinars by various members of the consortium. Events were held both physically and virtually.

4.2.1 Scientific Dissemination

Overall, 8 open access scientific publications were submitted during the final year of the project (Table 6), contributing to the grant total of 28 scientific publications throughout the duration of RESPOND-A. All scientific publications are presented in [ANNEX I](#).

Table 6 Scientific publications submitted during the last year of RESPOND-A Project

DATE	JOURNAL/PUBLICATION /CONFERENCE	ARTICLE'S NAME	PARTNERS INVOLVED	STATUS	LINK TO THE ARTICLE
2023	22nd INFOTEH– JAHORINA Symposium 2023	5G for Mission Critical Communications: RESPOND-A Project Experiences	AMSPM, NCSR	Accepted	Link
2023	27th International Scientific-Professional Information Technology Conference 2023 (IT2023 Conference)	Advanced Mission Critical Communication in Maritime Search and Rescue Actions	AMSPM, 8BELLS, AIRBUS, EUC	Accepted	Link
2023	46th MIPRO Conference 2023	The 5G-supported Unmanned Aerial Vehicles for Emergency Cases Response	AMSPM, i2CAT, ATM, EUC	Accepted	Link
2023	Book: "“Euvos: La Aportación De Las Pequeñas Cinematografías Al Patrimonio Cultural Inmaterial Europeo”	Chapter: "Herramientas De Visionado Social: Habilidadadores De Experiencias Compartidas E Interacción Social En El Ámbito Del Consumo De Contenidos"	i2CAT	Accepted	TBA
2023	ACM IMX 2023 Conference	Enabling and Understanding Interactive Social VR360 Video Viewing	i2CAT	Under review	TBA
2023	ACM IMX 2023 Conference (Doctoral Consortium Track)	Towards Distributed and Interactive Multi-cam and Multi-device VR360 Video Experiences	i2CAT	Accepted	TBA
May 2023	Virtual Reality journal (Q1 in JCR)	Low-Latency Streaming and Interactive Multicam VR360 Social Viewing for Collaborative Inspection of Emergency Situations	i2CAT	To be Submitted in May 2023	TBA

4.2.2 Clustering Activities

During year 3, the consortium has put particular efforts in engaging and joining ongoing clustering activities with related projects. This was namely done with the support of [the Horizon Results Booster](#) service and other crisis management networks such as CMINE, and aimed at boosting the dissemination, communication and exploitation of the project and ensure that our results and achievements of the last three years were known to the community.

4.2.2.1 Safety F.I.R.S.T Cluster



During the third year of the project, RESPOND-A has participated in the Safety F.I.R.S.T cluster. The aim is to develop and test new technologies to help First Responders' efficiency and effectiveness in their missions. Several promotional materials were produced as part of the cluster including:

- [A joint newsletter](#) (see newsletter section)
- [A video](#)
- A policy brief (in progress)



Figure 17 Safety F.I.R.S.T. Cluster Video

4.2.2.2 The Responder Technology Cluster (RTC)

Since April 2023, RESPOND-A has become part of a new cluster, gathering in total 9 European projects, acting in the same action spectrum: INTREPID, PathoCERT, INGENIOUS, NIGHTINGALE, RESCUER, MED1stMR, TeamAware, Search & Rescue and RESPOND-A.

Established with the support of the [Crisis Management Innovation Network Europe \(CMINE\)](#), the first meeting took place in April 2023, officially signing the launch of the cluster. Soon, a common "launch" report will be created for all projects to use in their dissemination, impact and exploitation activities.

The cluster will focus on developing and testing technologies to enhance first responders' safety and improve their effectiveness and efficiency. The objective of the cluster is to work together to promote best practices in research, but also to maximise the impact of the various dissemination and communication objectives! Participating in this cluster for RESPOND-A is also a great opportunity to stimulate the exploitation of results and ensure that the results and technologies are known to other projects and organisations working in the same field.



Figure 18 European Projects participating in the Responder Technology Cluster

4.2.2.3 CERIS - Community for European Research and Innovation for Security

Aiming to facilitate interactions within the security research community and users of research outputs, in 2014 the Commission established the Community of Users for Safe, Secure and Resilient Societies (CoU), which gathered around 1,500 registered stakeholders (policy makers, end-users, academia, industry and civil society) and regularly held thematic events with the security research community. Now named the Community for European Research and Innovation for Security (CERIS), this platform continues and expands the work of the CoU, in light of the forthcoming Horizon Europe developments between 2021-2027. During year 3 of the project, RESPOND-A participated to two CERIS gatherings on November 10th 2022 (online) and May 5th 2023 in Lavrion, Greece.



Figure 19 Participation of RESPOND-A in CERIS Events

4.2.2.4 RESPOND-A Webinars

RESPOND-A Webinars were already described in [Section 3.1](#), though it is important to emphasise that they were namely used as clustering activities, to engage and build relationships with related projects. Sister projects were invited to contribute to the technology focused webinars (AR/VR, sensors & smart wearables, MCX and robots and unmanned vehicles). Since these other projects are developing similar technologies, it was very interesting to provide a platform for discussion and find synergies around common topics and thematic.

4.2.3 Third-party events

During the final year of the RESPOND-A project, Consortium partners participated in 42 third-party events representing, communicating and raising awareness about the project. A number of these events are presented below. A full list of third-party events RESPOND-A was represented throughout the duration of the project is presented in [ANNEX II](#).

4.2.3.1 RESPOND-A @ CEPOL Research & Science Conference 2022, Vilnius

Preparing law enforcement for the digital age was the main theme of 2022 CEPOL Research and Science Conference, which brought together 200 participants from around 30 countries and 7 international organisations. The conference was organised by the EU Agency for Law Enforcement Training (CEPOL), jointly with Mykolas Romeris University, in Vilnius, Lithuania, on 10th June 2022 – within the scope of CEPOL’s Justice and Home Affairs Agencies Network presidency programme. Under the title of “RESPOND-A Project: how digital tools can help LEAs managing emergencies” RESPOND-A was presented to an audience of 200 representatives, most of them from law enforcement. The event agenda can be found [here](#).



Figure 20 Presentation for RESPOND-A project @ CEPOL Research & Science Conference 2022

4.2.3.2 RESPOND-A @EUROSATORY 2022

RESPOND-A was represented by 8BELLS at [EUROSATORY](#), between June 13 and 17 in Paris, France. Eurosatory is the largest land defence & security exhibition worldwide taking place in Paris every two years. It has been selected as the right occasion to showcase how the European Commission supports European defence industry cooperation, competitiveness and acts as an important institutional actor in Europe’s security and defence ecosystem.



Figure 21 Representation of RESPOND-A project @ Eurosatory 2022

4.2.3.3 RESPOND-A @ 2nd Space Science & CNS Symposium

The Administration for Maritime Safety and Port Management of Montenegro (AMSPM), represented RESPOND-A at the 2nd Space Science & CNS Symposium in Durban on the 24th October 2022, through a presentation demonstrating communication platforms development to ensure the resilience of maritime transport and safety sector.

Figure 22 Representation of RESPOND-A at the 2nd Space Science & CNS Symposium in Durban, South Africa

4.2.3.4 RESPOND-A @ 42nd International Conference on Organizational Science Development

The 42nd International Scientific Conference on the Development of Organizational Science was held in Portorož from the 22nd to the 24th of March 2023. The main thrust of the conference was to promote the importance of knowledge from an interdisciplinary perspective through academic and scientific debates and professional developments from the economic and non-economic worlds. RESPOND-A project was presented by the Administration for Maritime Safety and Port Management of Montenegro (AMSPM).



Figure 23 42nd International Conference on Organizational Science Development at Portorož, Slovenia

4.2.3.5 RESPOND-A @ 10th International Maritime Science Conference 2023

The Administration for Maritime Safety and Port Management of Montenegro (AMSPM) represented RESPOND-A and presented a general overview of the project at the [10th International Maritime Science Conference](#) that took place on the 8th and 9th May 2023 in Croatia.



Figure 24 10th International Maritime Science Conference (IMSC 2023), at Solin, Croatia

4.2.3.6 RESPOND-A @CCW 2022-3

Athonet was proud to present its PPDR solutions at the Critical Communication World event in 2022 (21-23 June 2022, Wien, Austria) and soon will attend again in 2023 (23-25 May 2023, Helsinki, Finland). Athonet advertised and will advertise the European projects with a focus on critical communications in which they participate, including RESPOND-A. The project’s flyers are distributed, and the project’s video is projected on a screen visible to the booth’s visitors. Athonet’s solutions for private networking and critical communication attract the attention of experts from Europe, Asia and South America who visit the stand. In 2022, there was a lot of interest in European projects as well, highlighting that cooperation among continental stakeholders is the right way forward.



Figure 25 RESPOND-A @CCW 2022-3

4.2.3.7 RESPOND-A @MWC 2023

The RESPOND-A project was presented as part of the exhibition area of the Mobile World Congress 2023 (MWC), taking place from February 27th to March 2nd in Barcelona, Spain. The booth was operated by RESPOND-A partner Athonet, which displayed the project video and distributed flyers to visitors.



Figure 26 Representation of RESPOND-A @ MWC 2023

4.2.3.8 RESPOND-A @ INTERSCHUTZ 2022

The RESPOND-A project made its debut as an integral part of the exhibition at Interschutz 2022, a prestigious event held from 20 to 25 June in Hannover, Germany. The booth was skilfully managed by Vallfirest, showcasing the project's impactful rollup and efficiently distributing informative flyers to the attending visitors.



Figure 27 Pictures from INTERSCHUTZ 2022

4.2.3.9 RESPOND-A @ Final demonstration of H2020 ASSISTANCE

PLV disseminated RESPOND-A in the Final Demonstration of the European H2020 project ASSISTANCE organised by ETRA. The event took place in June 17th 2022 at the National Police premises “La Enira” in Linares (Jaen). Around 50 people attended the event (first responders, IT developers, LEAs and universities) <https://twitter.com/policialocalvlc/status/1542791244539215873?t=7ZQ9n7pM3SosA6DT4J4hdA&s=08>



Figure 28 RESPOND-A @ Final demonstration of H2020 ASSISTANCE

4.2.3.10 RESPOND-A@ UNVEX 2022

UNVEX <http://www.unvex.es> is an event dedicated to remotely piloted systems not only in the air but also in the maritime (surface and underwater) and terrestrial fields. In this edition, the event was scheduled to last three days: the first one dedicated to Defence, the second one to Public Services and Commercial Applications and the third one will be an open day with current topics.

RESPOND-A was disseminated in Round Table 16 entitled "SECURITY AT THE LEVEL OF CCAA AND MUNICIPALITIES" which took place on 15th SEP from 13:30 to 14:45, with representatives of Mossos, Local Police of Benidorm, Local Police of Seville. It was moderated by a representative of the Local Police of Madrid.

<https://twitter.com/policialocalvlc/status/1571820145005268992?t=ni2STCpKBMMtgrRT8nzqeA&s=08>



Figure 29 Representation of RESPOND-A from VPF at UNVEX 2022

4.2.3.11 RESPOND-A @ Police Drones, Benidorm (Spain)

PLV presented RESPOND-A at the third "Police Drones" conference held on 30 and 31 March 2023, which was created in 2018 with the aim of being a meeting point for the Law Enforcement Agencies and Military Units using drones. Around 190 representatives attended this event, most of them LEAs

<https://twitter.com/policialocalvlc/status/1641770027022970880?t=Pko1Mtu14rrrZe2SM9DT4Q&s=08>



Figure 30 Presentation of the RESPOND-A project at the 3rd Police Drones Conference

4.2.3.12 RESPOND-A @ Instituto de Formación Profesional VIGILES, Brunete (Madrid), Spain

In May 2023, part of the Vicomtech team of the RESPOND-A project demonstrated some technologies to further evaluate the use of AR and CC applications with future professionals, thanks to contacts we made through Pau Costa during the training sessions. We spent two days with over 40 students and 3 teachers presenting and letting them use the tools in an open field.



Figure 31 RESPOND-A @ Instituto de Formación Profesional VIGILES

4.2.3.13 RESPOND-A @ Bilateral meeting with other LEAs

PLV presented RESPOND-A project to two LEAs from Mossos d' Esquadra (Police Force from the Catalanian Regional Government -Digital Unit) in PLV Headquarters, Valencia (Spain). [Related Tweet](#)



Figure 32 Representation of RESPOND-A @ Bilateral meeting with other LEAs

4.2.3.14 RESPOND-A @ The Spanish International Defence and Security Exhibition (FEINDEF)

Organized by the Feindef Foundation, [FEINDEF 23](#) is the only fair in Spain of the Defence and Security sector institutionally supported by the Ministry of Defence, and is positioned as the most important Defence and Security event held in Spain, which opens to the world offering new business opportunities. [Related Tweet](#)



Figure 33 RESPOND-A Project at the Spanish International Defence and Security Exhibition

5 Conclusion

In conclusion, the RESPOND-A project has made significant scientific and technological contributions to the field of emergency response and disaster management. Through research, experiments, and the publication of scientific papers, the project has advanced knowledge and understanding in areas such as emergency response systems, technology integration, decision-making processes, and the dynamics of disaster events. The development of innovative technologies tailored for emergency response, including sensor networks, data analytics, artificial intelligence, remote sensing, communication systems, and human-computer interaction, has the potential to greatly improve the efficiency, effectiveness, and safety of emergency response operations.

Furthermore, the project's engagement with first responders has had a positive impact on technology development. Through trainings, workshops, and pilots, technology providers received valuable feedback from end-users, allowing for the refinement of tools and better alignment with operational needs and constraints. This iterative process has resulted in more user-friendly and intuitive technologies, enhancing their adoption and integration into emergency response systems. The engagement of first responders with these innovative technologies has also provided them with enhanced capabilities, equipping them with advanced tools, systems, and methodologies to improve their effectiveness, efficiency, and safety in real-life scenarios.

Overall, this deliverable highlights the final impact creation of the RESPOND-A project, showcasing the various activities undertaken, including trainings, workshops, pilots, and dissemination efforts. The project's achievements in scientific advancement, technological development, and engagement with first responders demonstrate its significant contributions to the field of emergency response and its potential to improve the effectiveness of disaster management in the future.



References

- [1] RESPOND-A: Deliverable D6.5 – Fourth Training Report, 2022
- [2] RESPOND-A: Deliverable D6.6 – Fifth Training Report, 2023
- [3] RESPOND-A: Deliverable D7.3 – Pilot 1 execution report, 2023
- [4] RESPOND-A: Deliverable D7.4 – Pilot 2 execution report, 2023
- [5] RESPOND-A: Deliverable D7.5 – Pilot 3 final demonstration execution report, 2023
- [6] RESPOND-A: Deliverable D8.1 – RESPOND-A web site, social network pages and open access server, 2020



ANNEX I

Table 7 Dissemination material submitted as Journal Publications/ Conferences by RESPOND-A Consortium Partners throughout the duration of the RESPOND-A Project.

DATE	JOURNAL/PUBLICATION /CONFERENCE	ARTICLE'S NAME	PARTNERS INVOLVED	STATUS	LINK TO THE ARTICLE
2021	JITEL Conference (https://jitel21.udc.es/)	Title: Plataforma modular para la codificación y distribución interactiva de contenidos VR360 basada en campo de visión	I2CAT	Accepted	https://www.recercat.cat/handle/2072/522537
2021	European Conference on Networks and Communications (EuCNC), 2021 (poster)	RESPOND-A: An Initiative for Innovative Equipment, Tools and Mission-critical Strategies for First Responders	IANUS, VICOMTECH, 8BELLS, EUC	Yes	https://www.eucnc.eu/poster-a/
2021	IoT4 - DCOSS 2021 International Conference On Distributed Computing In Sensor Systems	Gamified First Responder Training Solution in Virtual Reality	OINF	Accepted	https://ieeexplore.ieee.org/abstract/document/9599882
2021	MDPI Energies	Conceptual Evaluation of a 5G Network Slicing Technique for Emergency Communications and Preliminary Estimate of Energy Trade-Off	NCSR D	Accepted	Energies 2021, 14, 6876. https://doi.org/10.3390/en14216876
2022	IMET 2022	Training First Responders using TableTop exercises under COVID-19 condition: Respond-A approach	SID, PCF, EUC	Rejected as Full paper. Converted to 2-page paper (poster) resubmitted	
2022	COINS 2022	Towards the RESPOND-A initiative Next-generation equipment tools and mission-critical strategies for First Responders	8BELLS, SID, EUC	Accepted	
2022	WFIOT 2022	A Robust deep learning architecture for FireFighter PPEs detection	OINF	Accepted	



2022	WFIOT 2022	An augmented reality platform for first responders: immersive visualisation in IoT-enabled environments	OINF	Rejected	
2022	WFIOT 2022	Training First Responders using TableTop exercises under COVID-19 condition: Respond-A approach	SID, PC, EUC	Under review	
2022	ISMAR 2022	An Augmented Reality Framework for First Responders	VICOM, PRO, ADS, NCSR, OINF, MDS	Rejected (the paper was resubmitted to PACET 2022 and accepted)	
2022	Special Issue "Game-Based Learning and Gamification for Education"	Overview Part1, Gamification - Serious game, Cybersecurity awareness, Strategies, Assessment and Training	SID, MDS, ...	Rejected	
2022	IEEE Xplore	5G Slicing for Emergency Communications	NCSR	Accepted	https://ieeexplore.ieee.org/document/9732142
2023	MDPI Sensors Journal Special Issue "Positioning and Localization in the Internet of Things"	Fast deployment of a UWB-based IPS for emergency response operations	i2CAT	Accepted	https://www.mdpi.com/1424-8220/23/9/4193
2022	XI International Scientific Conference Hemus 2022	Next-generation equipment tools and mission-critical strategies for first responders (RESPOND-A)	BDI	Accepted	
2022	PACET 2022/IEEE Xplore	A Technological Framework For Leveraging First Responders' Efficiency and Safety	NCSR	Accepted	https://www.pacet-conf.gr/Files/PACET2022paper2182.pdf
2022	PACET 2022/IEEE Xplore	Wi-Fi 6 Aerial Relay Node for Emergency Operations	NCSR	Accepted	https://www.pacet-conf.gr/Files/PACET2022paper2960.pdf
2022	SEEDA 2022	Augmented reality training, command and control framework for first responders	OINF, SID	Accepted	TBA



2022	PACET 2022	An Augmented Reality Framework for First Responders: The RESPOND-A project approach	VICOM, PRO, ADS, NCSR, OINF, MDS	Accepted	https://www.pacet-conf.gr/Files/PACET2022paper1528.pdf
2022	ACM MMSys'22	Design, development and evaluation of adaptive and interactive solutions for high-quality viewport-aware VR360 video processing and delivery	i2CAT	Accepted	https://dl.acm.org/doi/10.1145/3524273.3533929
2023	GISTAM 2023	3D Geospatial Data Management Architecture for Common Operational Picture functionalities in Emergency Response	VICOM	Accepted	https://www.scitepress.org/PublicationsDetail.aspx?ID=vk+m95c8%2fyc%3d&t=1
2022	ASMS/SPSC 2022 , IEEE Xplore	The Sky is the Limit: Approaching 6G through a 3D Multilayered Integrated Network Architecture	ATM	Accepted	TBA
2023	22nd INFOTEH-JAHORINA Symposium 2023	5G for Mission Critical Communications: RESPOND-A Project Experiences	AMSPM, NCSR	Accepted	https://www.researchgate.net/publication/369327651_5G_for_Mission_Critical_Communications_RESPOND-A_Project_Experiences
2023	27th International Scientific-Professional Information Technology Conference 2023 (IT2023 Conference)	Advanced Mission Critical Communication in Maritime Search and Rescue Actions	AMSPM, 8BELLS, AIRBUS, EUC	Accepted	https://www.researchgate.net/publication/368898246_Advanced_Mission_Critical_Communication_in_Maritime_Search_and_Rescue_Actions
2023	46th MIPRO Conference 2023	The 5G-supported Unmanned Aerial Vehicles for Emergency Cases Response	AMSPM, i2CAT, ATM, EUC	Accepted	https://www.researchgate.net/publication/370637397_The_5G-supported_Unmanned_Aerial_Vehicles_for_Emergency_Cases_Response
2023	Book: "Euvos: La Aportación De Las Pequeñas Cinematografías Al	Chapter: "Herramientas De Visionado Social: Habilidadadores De Experiencias Compartidas E Interacción Social En El Ámbito Del Consumo De Contenidos"	i2CAT	Accepted	TBA



	Patrimonio Cultural Inmaterial Europeo”				
2023	ACM IMX 2023 Conference	Enabling and Understanding Interactive Social VR360 Video Viewing	i2CAT	Under review	TBA
2023	ACM IMX 2023 Conference (Doctoral Consortium Track)	Towards Distributed and Interactive Multi-cam and Multi-device VR360 Video Experiences	i2CAT	accepted	TBA
May 2023	Virtual Reality journal (Q1 in JCR)	Low-Latency Streaming and Interactive Multicam VR360 Social Viewing for Collaborative Inspection of Emergency Situations	I2CAT	To be Submitted in May 2023 (but results are there)	TBA



ANNEX II

Table 8 Third Party Events RESPOND-A Consortium Partners attended representing and communicating the project

DATE	NAME	Location	THEME & TOPICS	TYPE OF ACTIVITY	INVOLVED PARTNER(S)	TYPE OF AUDIENCE	AUDIENCE SIZE
Nov 2023	3rd Kotor International Maritime Conference	Kotor, Montenegro	Project RESPOND-A: overview presentation	Presentation	AMSPM	academic staff, safety experts, end-users, researchers	
Jun 2023	Conference MECO 2023 (12th Mediterranean Conference on Embedded Computing)	Budva, Montenegro	Project RESPOND-A: overview presentation	Presentation	AMSPM	academic staff, safety experts, end-users, researchers	50
Mar 23 & Jan 23	Visits of students from Erasmus Plus Mobility program	Barcelona, Spain	Visit of students to i2CAT to learn about R&D projects. Presentation of the RESPOND-A project	Presentation. Related tweets	i2CAT	Secondary vocational training students	32
May 2023	Spanish International Defence and Security Exhibition (FEINDEF)	Madrid, Spain	Defence and Security sector institutionally supported by the Ministry of Defence	https://www.feindef.com/index.php/es/#	VPF	public safety experts, research, industry, end users	>5k
May 2023	46th MIPRO Conference 2023	Opatija, Croatia	The 5G-supported Unmanned Aerial Vehicles for Emergency Cases Response	Paper presentation	AMSPM	academic staff, safety experts, end-users, researchers	50
May 2023	CCW 2023	Helsinki, Finland	Critical Communications World Fair, https://www.critical-communications-world.com/	Exhibition	ATH	public safety experts, research, industry, end users	>50k
May 2023	PSCE Conference	Lavrion, Greece	Online identity theft, military cooperation for crisis management, horizon scanning in public safety	Presentation	AIRBUS	public safety experts, research, industry, end users	100
May 2023	10th International Maritime Science Conference (IMSC 2023)	Solin, Croatia	Advanced UAVs Applications in Maritime Search and Rescue and Environment Protection Missions	Presentation	AMSPM	academic staff, safety experts, end-users, researchers	30



Apr 2023	Conference on "Developing Smart and Green Ports" Project IPA CBC Interreg "Port Plus"	Kotor, Montenegro	Next-generation equipment and tools contribution to development and safety of smart ports: Project RESPOND-A concerns	Presentation	AMSPM	academic staff, safety experts, end-users, researchers	50
Mar 2023	42nd International Conference on Organizational Science Development	Portoroz, Slovenia	Next-generation equipment tools and mission-critical strategies for First Responders - H2020 project RESPOND-A General Presentation	Presentation	AMSPM	academic staff, safety experts, end-users, researchers	60
Mar 2023	22nd INFOTEH-JAHORINA Symposium 2023	Jahorina, Bosnia & Herzegovina	5G for Mission Critical Communications: RESPOND-A Project Experiences	Paper presentation	AMSPM	academic staff, safety experts, end-users, researchers	50
Feb/Mar 2023	MWC 2023	Mobile World Congress	Barcelona, Spain	Exhibition	ATH	public safety experts, research, industry, end users	>50k
Feb 2023	27th International Scientific-Professional Information Technology Conference 2023 (IT2023 Conference)	Žabljak, Montenegro	Advanced Mission Critical Communication in Maritime Search and Rescue Actions	Paper presentation	AMSPM	academic staff, safety experts, end-users, researchers	30
Jan-Feb 2023	IoT Solutions World Congress	Barcelona, Spain	IoT solutions https://www.iotsworldcongress.com	Exhibition. Presentation of RESPONDA wearables at the i2CAT booth. Related tweet 1 Related tweet 2	i2CAT, Vallfirest, Smartex	Industry	15k+ visitors
Dec 2022	ERASMUS+ PROGRAMME: International scholar visit within the 5G Barcelona initiative	Barcelona, Spain	Presentation of the RESPOND-A project and demo of the UWB positioning tool for First Responders	Presentation/demo Related Tweet	i2CAT	Professors, students	12



Dec 2022	Maritime and Port Logistics Bar Conference	Bar, Montenegro	AMSPM Participation in EU Horizon and IPA Projects: RESPOND-A Horizon2020 Project	Presentation	AMSPM	academic staff, safety experts, end-users, researchers	30
Dec 2022	PSCE Conference	Brussels		Presentation/exhibition	PSCE/Airbus		
Nov 2022	2nd Kotor International Maritime Conference	Kotor, Montenegro	Contribution of project RESPOND-A to Efficient Maritime Rescue and Safety Response using Combined Next-generation Technologies Approach	Presentation	AMSPM	academic staff, safety experts, end-users, researchers	50
Nov 2022	AFCEA TechNET "Sofia" 2022	Sofia, Bulgaria	AFCEA is abbreviation of Armed Forces Communications and Electronics Association. AFCEA unites governmental and state institutions, business, industry, academia and other authorities. https://www.afcea-bg.org/en/content/afcea-tech-net-sofia-2022	poster session/leaflet/presentation	BDI	Government officials, industry, civil society	200
Nov 2022	Elinyae - Hellenic conference	Athens, Greece	Safety for First Responders	Presentation	EUC	safety experts, end-users	
Nov 2022	COMMUNITY OF EUROPEAN RESEARCH AND INNOVATION FOR SECURITY (CERIS)	Brussels	Research and Innovation for Security and First Responders	presentation	EUC	safety experts, end-users, researchers	



Oct 2022	DISASTER RESILIENT SOCIETIES (DRS)	Durban, South Africa (online attendance)	Current data and communication platforms development toward ensuring the resilience of the maritime transport and safety sector (EU H2020 Projects ePcenter and RESPOND-A)	Presentation	AMSPM	professors, academic persons, young researchers, students, safety & maritime communications experts	50
Oct 2022	EU-OSHA's E-tools seminar on Wearable Technologies for Risk Assessment	Bilbao, Spain	Risk Assessment & Management	Presentation	EUC	Safety Experts	50
Sep 2022	European researchers' Night - Festival of Science in Montenegro	Podgorica, Montenegro	Research, technology and innovation in maritime safety, surveillance and Search and Rescue actions	Presentation	AMSPM	Young researchers, students, professors, academic persons	80
Sep 2022	ERASMUS+ PROGRAMME: Preparing young undergraduate women for a research career in health sciences	Porto, Portugal	Risk Assessment & Management	Presentation	EUC	Researchers	30
Sep 2022	Congrès National des sapeurs-pompiers de France	Paris, France	First Responders	Exhibition	AIRBUS	End-users, companies	10 000+
Sep 2022	5G and Beyond NTN Systems	Hybrid, Graz, Austria	Satellite communications	Presentation	ATM	End-users, Telecommunications users, research institutes	~100



June 2022	INTERSCHUTZ	Hannover, Germany	Fire & Rescue Services https://www.interschutz.de/en/	Exhibition	VAL	End user, industry	Every 5 years 2015 (> 150.000 visitors) 2022 (+ expected)
June 2022	CCW 2022	Vienna, Austria	Critical Communications	Exhibition	ATH		
June 2022	EUCNC 2022	Grenoble, France	European Conference on Networks and Communications	https://www.eucnc.eu	ATH		
June 2022	ASSISTANCE EU Project Final pilot	Linares, Jaen, Spain	ASSISTANCE Final Demonstration https://twitter.com/policialocalvlc/status/1542791244539215873?t=7ZQ9n7pM3SosA6DT4J4hdA&s=08	Leaflets	PLV	First responders, LEAs, IT developers, University	50
June 2022	ACM MMSys 2020	Athlone, Ireland	Multimedia Systems	Presentation, Poster	i2CAT	Researchers, Industry	
June 2022	Eurosatory	Paris, France	Defence & Security	https://www.eurosatory.com/?lang=en	ATH		
June 2022	EUROSATORY 2022	Paris, France	Defence & Security	Exhibition	8BELLS		



June 2022	CEPOL Research & Science Conference 2022, Vilnius	Vilnius (Lithuania)	https://conference-digital.cepol.europa.eu/cepol-research-science-conference-2021-mru-vilnius/schedule/ https://twitter.com/policialocalvlc/status/1535571953465151488?t=oZnuCJk4x5guOX13ia5HIQ&s=08	Presentation	PLV	LEAs, Public Authorities	200
June 2022	XI International Scientific Conference Hemus 2022	Plovdiv, Bulgaria (hybrid)	Research, technology and innovation - basis for building new defence capabilities, https://di.mod.bg/hemus2022/program	presentation/poster session	BDI	Government officials, research, academics	100
June 2022	International Defence Equipment and Services EXHIBITION „HEMUS 2022”	Plovdiv, Bulgaria	“HEMUS” is an event that brings the relevant decision-makers, representatives of National, European and International Institutions and Organizations, Companies from the defence sector and Academia together to enhance international strategic cooperation and dialogue, https://www.fair.bg/en/event/2022/hemus-2022	poster session/leaflet	BDI	Government officials, industry, civil society	1000
June 2022	MED OSMoSiS INTERREG Conference	Opatija, Croatia (hybrid)	Overall review of RESPOND-A project	Presentation	AMSPM	EU projects, industry, research, civil society	40
June 2022	Research and Innovation Symposium for European Security and Defence” (RISE-SD)	Plovdiv, Bulgaria (hybrid)	Collaboration between project teams and organizations, https://rise-sd.net/program	presentation/poster session	BDI	Government officials, EU projects, industry, academics	100
May 2022	European Projects Fair, Chamber of Economy of Montenegro	Podgorica, Montenegro	Overall review of RESPOND-A project	Presentation	AMSPM	EU projects, industry, research, civil society	



May 2022	Ingenious 1st International Workshop	Villejust, France (Hybrid)	Innovation for First Responders	Presentation/Clustering with other projects	PSCE/EUC	EU projects, industry, research, civil society	
May 2022	PSCE Conference in Salzburg	Salzburg, Austria	6G for public safety/crossborder cooperation/ pandemics/ robots for public safety	presentation/poster session	PSCE	Industry/research/practitioners	100
May 2022	Presentation of project RESPOND-A on International Police Association (IPA) Games 2022	Bar. Montenegro	Overall review of RESPOND-A project	Presentation	AMSPM	EU projects, industry, research, civil society	30
Apr 2022	Bilateral meeting	Online	Meeting with the French National Police via TELCO https://twitter.com/policialocalvlc/status/1519297494253031429	Bilateral meeting	PLV	LEAs	2
Apr 2022	14th Safety Gala	Online	Safe business in a challenging environment: a time for a shared vision	presentation	EUC	Industry/research/practitioners/academics	250
Feb 2022	MWC 2022	Mobile World Congress	Barcelona, Spain	https://www.mwcbarcelona.com/exhibitors/products/mwc-barcelona-2022	ATH		
Mar 2022	Fire and Crisis Management - FireURisk & RESPOND-A Joint Event	Online	Communication between projects, fire and crisis management, technologies for FRs and smoke dispersion modelling	Project Presentation and Technologies presentation	EUC and HI	Project partners and general public	



Mar 2022	Testing RESPOND-A tools in the Fallas Festival	València (Spain)	Robotnik and Vallfirest tools testing in Mascletà and Cremà in the Fallas Festival in València https://twitter.com/policiallocalvlc/status/1503710649519689733?t=aSAWsa67kS2glkex9Dv19Q&s=08	Testing and presentation to the media	PLV	End users, media	
Mar 2022	Bilateral meeting	Tel-Aviv	Bilateral meeting with the Israel National Police Force: 15 police officers participated in the meeting where the RESPOND-A activities were presented	Bilateral meeting	PLV	LEAs	15
Feb 2022	Bilateral meeting	Basque Country (Spain)	A delegation of representatives of Valencia Local Police has traveled to Basque Country to hold face to face meetings with the Donostia Police Force, Metro Bilbao and the Technological https://twitter.com/policiallocalvlc/status/1494302605618655239?t=S97oR_K_wlfM5rsQueN6Ng&s=08 Center Vicomtech	Bilateral meeting	PLV	LEAs, Technological Center, Public authority	14
Feb 2022	International Conference on Planning, Challenges of Disaster Management and Resilience	Hybrid	Disaster Management and REsilience	Presentation	EUC	Government officials, academics, non-government personnel, environmentalists, and other stakeholders	
Feb 2022	Face to face meeting with other LEAs and Industry in Catalonia	Catalonia (Spain)	A delegation of representatives of Valencia Local Police has traveled to Barcelona to hold face to face meetings with the Castelldefels Police Force, Hospitalet Police	Bilateral meeting	PLV	LEAs, University, SME	10



			Force, Pompeu Fabra University, Technological SME Tinkerers				
Feb 2022	Face to face meeting with Madrid Municipal Police	Madrid, Spain	Exchange of good practices with LEAs https://twitter.com/policialocalvlc/status/1491052585532661760?t=TvkJLJM7q7RiHdIp-2rhmq&s=08	Bilateral meeting	PLV	LEAs	4
Jan 2022	UPTIME - The Annual Private 5G & LTE World Community Conference - 2022 Edition	Online	5G private networks	Presentation	ATH, open to all partners	End users, Tier-1 operators, industry, research	>1000
Dec 2021	2021 IEEE 5G Workshop on First Responder and Tactical Networks	Online	First responders and tactical networks	Presentation of N. di Pietro, M. Centenaro, D. Munaretto, M. Gianesin, S. O'Donnell, "Mobile Networks for PPDR/Tactical Use at Work: the Athonet PriMo Solutions,"	ATH	Academics, industrials, first responders	100s
Dec 2021	PSCE Conference	Brussels	AI / Climate Emergency / Mission Critical Applications	Exhibition and Presentation	PSCE/AIRBUS/ZII	Industry/Research/U sers/Policy Makers/ EU officials	Approx 80.
Nov 2021	European Forum for Disaster Risk Reduction	Matosinhos, Portugal	Disaster Risk Reduction	Presentation https://efdr.undrr.org/	AMSPM	Disaster risk reduction community	Link
Jun 2021	Conference on Disaster Risk Reduction and significance of cross- border and regional cooperation	Kolašin, Montenegro	Kolašin, Montenegro	Presentation	AMSPM	Disaster risk reduction community	Link



Nov 2021	CCW 2021 - Critical Communications World	Madrid, Spain	Critical Communications	Exhibition	Athonet AIRBUS DS SLC	<p>Athonet’s solutions for private networking and critical communication attracted the attention of experts from Europe, Asia and South America who visited the stand. There was a lot of interest in European projects as well, highlighting that cooperation among continental stakeholders is the right way forward.</p> <p>AIRBUS DS SLC has welcome a RESPOND-A presentation at an Innovation corner on its booth at CCW Madrid 2021 and demonstrate Mission Critical Services on 4G/LTE networks with private or public cloud and projected capabilities.</p>	>500
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Oct 2021	JITEL conference (Spanish conference on Telecommunications and Media Networks (https://jitel21.udc.es/)	Madrid, Spain	Telecommunications, Media Networks	Presentation	i2CAT	Academics and Experts in Telecommunications	approx. 100
Oct 2021	Congrès National des sapeurs-pompiers de France	Marseille, France	Firefighters technologies, first responders, SAR operations	Exhibition	AIRBUS DS SLC	First Responders, Industrials, Policy Makers, Public	
Oct 2021	CYPRUS DEFENCE & SECURITY CONFERENCE	Nicosia, Cyprus	Security & Defense	Presentations	8BELLS	Experts and representatives of EU member states, international organizations and the international defence industry.	approx 350
July 2021	IoT4 - DCOSS 2021 INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING IN SENSOR SYSTEMS	Online	Distributed computing	Presentation	OINF	Academic, experts in computing	approx. 20
June 2021	2021 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit)	Online	Telecommunications	Presentation	8BELLS	Experts in Telecommunications	approx. 100
May 2021	5G Technology: Opportunities and Challenges for European Law Enforcement Agencies	Online	5G	Presentation	8BELLS	Experts in Telecommunications and Operational Security, end-users	approx. 100



Jan 2021	UPTIME, The Private 5G & LTE World Community Conference	Online	5G private networks	Presentation	ATH, open to all partners	End users, Tier-1 operators, industry, reasearch	800
Dec 2020	Clustering Webinar on New Technologies for First Responders	Online	New Technologies for First Responders	Presentation	PSCE/EUC	Related projects	approx 100
Nov 2020	NICOSIA RISK FORUM 2020	Online	Disaster Risk Reduction & Resilience	Presentation	EUC	Academic, industrial, governmental, policy, and other societal stakeholders with a significant interest in societal safety and in RISK	approx 350
Nov 2020	22o INFOCOM WORLD CONFERENCE Title of presentation: "5G Technology in Mission Critical Communication Applications: The case of Closed VPN solution in RESPOND-A "	Online	5G	Presentation	8BELLS	Experts in Telecommunications, Informatics, as well as end users	>100
Nov 2020	5G for First Responders : Project RESPOND-A (Next-generation equipment tools and mission-critical strategies for First Responders)	Online	5G	Presentation	NCSR Demokritos	Experts in Telecommunications, Informatics, as well as end users	>100
Oct 2020	5G Trials in Europe – 5G Experimentation Facilities and Vertical Trials	Online	5G	Presentation	NCSR Demokritos	Experts in Telecommunications, Informatics, as well as end users	~ 100



Sep 2021	Cyprus Network Festival (CNF)	F2F	Project Communication to Local Community	Presentation/Discussion	CSI Cyprus	Local Stakeholders	250
May 2023	Dissemination and feedback session	Madrid, Spain	Augmented Reality and Command and Control applications, event with firefighter students	Presentation, training and feedback from students	VICOMTECH	Students and teachers of Firefighter Training Center	> 30