



Teamaware

TEAM AWARENESS ENHANCED WITH ARTIFICIAL  
INTELLIGENCE AND AUGMENTED REALITY

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**Deliverable D14.2**

**Project Website**

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*Document Info*

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<b>Responsible Partner:</b>	SRDC
<b>Status-Version:</b>	Final - v1.0
<b>Date:</b>	02/11/2021
<b>Distribution level (CO, PU):</b>	PU

*Project Details*

<b>Project Number:</b>	GA 101019808
<b>Project Title:</b>	Teamaware

*Deliverable Details*

<b>Title of Deliverable:</b>	Project Website
<b>Due Date of Delivery to the EC:</b>	31/07/2021

*Editors, contributors and reviewers*

<b>Workpackage responsible for the Deliverable:</b>	WP14 – Dissemination, Exploitation and Communication
<b>Editor(s):</b>	SRDC
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<b>Recommended/mandatory readers:</b>	All Partners

*Additional info*

<b>Abstract:</b>	The report on the TeamAware project web site.
<b>Keyword List:</b>	Personas, communication tools, communication and disseminations channels, key messages
<b>Licensing information:</b>	Public
<b>Disclaimer</b>	This deliverable reflects only the author's views and the Commission is not responsible for any use that may be made of the information contained therein

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## Document Description

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### *Document Revision History*

Version	Date	Modifications Introduced	
		Modification Reason	Modified by
V1.0	28/05/2021	Final version submitted to EC	SRDC

## Executive summary

This is the Deliverable 14.2 Project Website, developed within Work Package 14. A project website is an important tool for conveying key messages to stakeholders who are interested in following the progress and achievements of the TeamAware project. The website has multiple purposes:

- 1) engage with a range of key stakeholders with interests in the TeamAware project to increase prominence of the TeamAware study;
- 2) communicate project objectives, successes and achievements;
- 3) provide a centralised resource of quality and regularly updated news content on issues relevant to the TeamAware project, such as first responder IT systems.

This document describes the structure and functionalities of the project website and outlines the content to date at M3 of this 36-month project.

### Statement of originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation, or both.

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## 1 Introduction

First responders are the groups of people, services and organisations with specialised skills and qualifications, whose duty is to arrive first to the emergency zone, rescue operations, and perform crisis management in natural or humanmade disasters. The first responders mainly consist of firefighters, emergency medical services, and law enforcement agencies. Depending on the impact and effect of the disaster, the sectors react to the emergency event individually as well as together. Their duty is hard and critical since lives and valuable assets are in the focus of their operations under high level of stress and uncertainty associated with the type of the event. For instance, the first responders were the first victims infected by the previously unknown SARS virus, when they cared for patients infected by the virus. It is a fact that, first responders need to be protected, connected, and fully aware of the emergency event so that they can efficiently and effectively save and rescue lives without exposing their lives or the operation to risks.

Although first responders provide secure and safe societies by protecting the communities, responding to the disasters, and rescuing lives, they often use inefficient, weak and obsolete technologies in the operations. With respect to the current situation, the operational capabilities of the first responders can be dramatically boosted by the advances in technology and engineering fields such as smart sensor systems, wearables, data processing, data fusion, data analytics, communication infrastructure, and artificial intelligence tools.

According to the gap-analysis in “The International Forum to Advance First Responder Innovation” (IFAFRI), common global capability-gaps are listed as follows:

- Capability Gap 1: The ability to know the location of responders and their proximity to risks and hazards in real time
- Capability Gap 2: The ability to detect, monitor, and analyse passive and active threats and hazards at incident scenes in real time
- Capability Gap 3: The ability to rapidly identify hazardous agents and contaminants
- Capability Gap 4: The ability to incorporate information from multiple and non-traditional sources to the incident command operations

Accordingly, IFAFRI has published an analysis synopsis corresponding to each capability gap. According to the gap analysis, there are four topics which arise namely:

- Real-time localisation and real-time monitoring of first responder team members,
- Detection of surrounding threats and risks,
- Fusion of information from several types of sources,
- Presentation of fused information via user-friendly displays.

In this respect, the main objective of the TeamAware Project is to develop an integrated and cost-efficient situational awareness system for first responders from different sectors with heterogeneous and hardly interoperable sensor units including drone mounted, wearable, and external sensor systems. Thus, TeamAware enhances crisis management, flexibility and reaction capability of first responders from different sectors through real-time, fused, refined, and manageable information by using highly standardised augmented reality and mobile human machine interfaces.

The present Deliverable 14.2, entitled Project Website, aims to give short introduction to the developed and deployed online project web site available at <https://teamaware.eu/>.

The project website (<https://teamaware.eu>) is one of the most important communication channels of TeamAware as it will provide continuous updates about the project's progress. All the public deliverables and publications will be uploaded on the website providing the necessary information regarding the project's progress and its results. The consortium will ensure high ranking of the website in web search engines through Search Engine Optimisation (SEO) practices and tools. The site will be maintained and updated regularly and will be active for at least 1 year after the end of the project. Specific information about the actual structure of the website as well as related planning of activities is.

## 2 Web Site

The project website is the main interface to stakeholders who are interested in the work and achievements of the project. For the purposes of our project, we define stakeholders as the following:

1. Priority Group 1 - End-user community that represent “potential customers” including firefighters, first responder organisations, LEAs, MDs, practitioner organisations, and experts
2. Priority Group 2 - Policy and decision makers that represent “influencers, deciders and regulators” in the area of emergency operations and first responder activities such as: emergency response coordination centre (ERCC), EU civil protection mechanism, national and European homeland security agencies, national ministries of home affairs and defence, safety regulation agencies, standardisation entities, professional associations etc.
3. Priority Group 3 - Business community: technology developer industry organisations, SMEs, industrial associations, umbrella organisations, national/European level industry platforms, consultants, solution providers, system integrators etc.
4. Priority Group 4 - Research community: universities, research centres/institutes, academicians, researchers etc.
5. Priority Group 5 - General public: NGOs, civil society, citizens etc. and professionals from other technological domains

The website is our main communication and dissemination channel for the project to share project progress, successes, findings, news and updates and provides us with a mechanism to engage with and involve our larger collaborative community. We will include information in accessible languages to ensure engagement with our target stakeholders.

The website will be an important dissemination and communication tool throughout the life course of the TeamAware project as it will regularly provide and publish current and up-to-date information about project activities. The website aims to be an interactive tool, easy to navigate, dynamic and attractive. It will be a responsive website, as it will be adapted to be easily navigated from any device. Likewise, work will be done on web accessibility, applying technology, standards and a design suitable for all.

The website went ‘live’ on 17th June 2021 (M2). The website is hosted on Amazon Cloud Servers (paid on an annual basis) and has been built by consortium partner SRDC.

The website will also act as a gateway to our social media presence, as it will link to our social media channels which will further facilitate our communication with the general public and our more specific key stakeholder groups.



The TeamAware Twitter Account ([https://twitter.com/TeamAware\\_EU](https://twitter.com/TeamAware_EU)) is live and the feed for this will be linked directly to our website contents. In the meantime, people are directed to follow this account on our Home Page. The LinkedIn page (<https://www.linkedin.com/company/teamaware-eu>) is also accessible from the web site so that we can further build our community of interested and relevant stakeholders for the TeamAware Project. The possibility of opening new accounts on other social networks, such as YouTube, will also be considered.

SRDC will maintain and update the website on a regular basis throughout the duration of the TeamAware Project, paying annual subscription fees for the website hosting and domain names in kind. SRDC is designing a community management plan in consensus with all partners.

The web site is designed in such a way that it will respond to the requirements of each audience. In the following sections the project web site is introduced.

## 2.1 Project Visual Identity – Project Logo

A consistent and coherent visual identity has been developed for TeamAware, including a logo (Figure 1), a slide template, and deliverable template. For the most commonly used documents (PowerPoint presentations, Word deliverable reports, agendas and minutes) templates have been designed and are available on the TeamAware Dropbox. Among other things, a leaflet and a poster will also be developed. The TeamAware leaflet will present the project, its objectives, the consortium, the key objectives and messages of the project, and its impact on stakeholders.



Figure 1 – The TeamAware logo

The TeamAware logo and colour scheme (figure 2), was agreed by all consortium members. There is one version of the logo, with a width to height ratio of 3:1.138 which must be maintained at all times. The corporate typography used for the logo is in capital and small letters. It is a classic, clear non-serif font. The official typography to be used in all documents by consortium members is Arial, a well-used but easy to read font, widely and freely available (Figure 3).

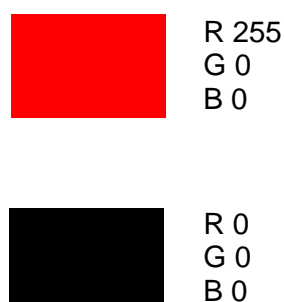


Figure 2 – Colour Swatches

A B C D E F G H I J K L M N  
 O P Q R S T U V W X Y Z  
 a b c d e f g h i j k l m n  
 o p q r s t u v w x y z

Figure 3 – Arial font for all TeamAware materials

## 2.2 Homepage

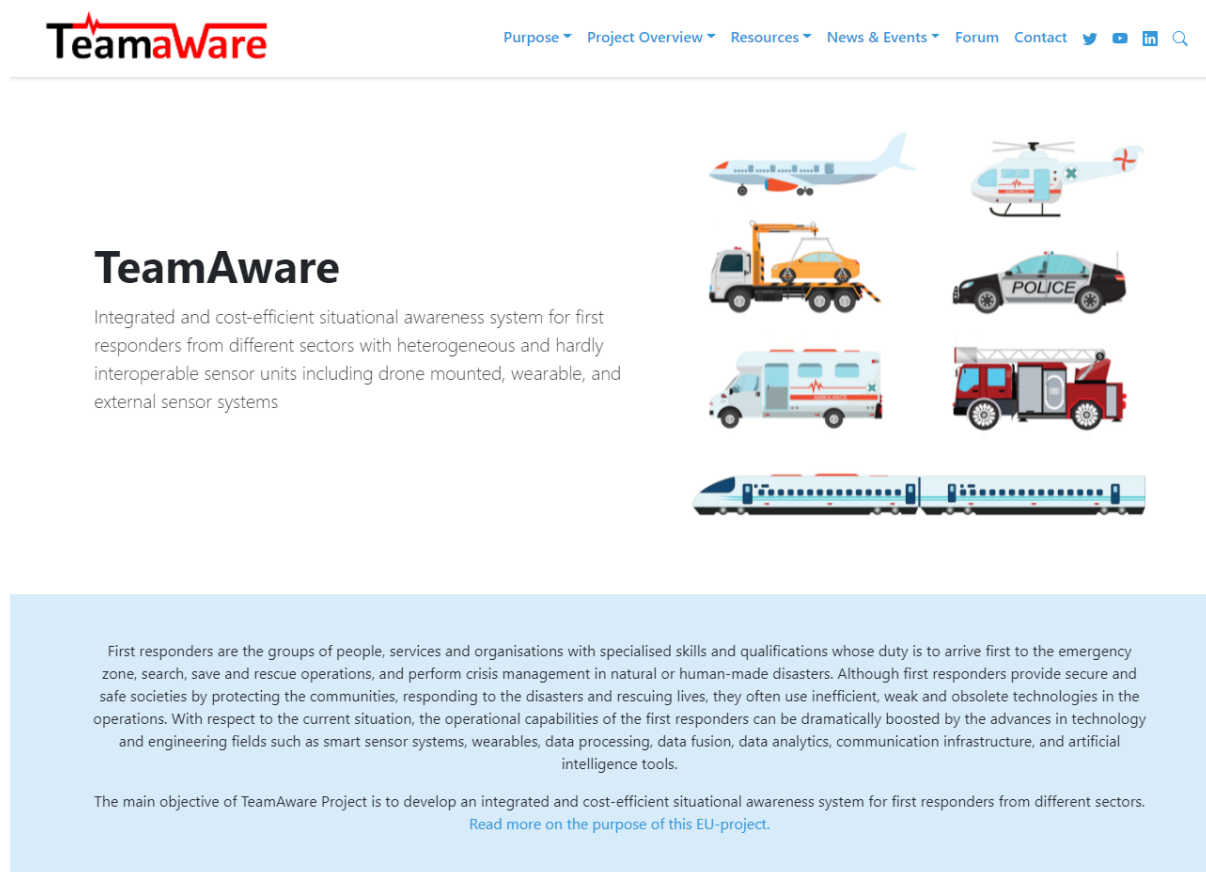


Figure 4 – Screenshot from the TeamAware homepage

The website design is purposefully clean, clear, crisp and inviting to encourage visitors to engage with the contents, resources and information that makes them regularly visit the site and follow the project evolution. The TeamAware logo features prominently on the website homepage to help increase immediate familiarity and recognisability of the project and logo for stakeholders.

The website is currently structured under 6 key headings:

- Purpose
- Project Overview: Work Packages, Consortium, Demonstration and Related Projects

- Resources: Articles, Press, Public Project Material
- News & Events
- Forum
- Contact

As the project evolves, further key headings will be added, and the structure and content will evolve as required.

## 2.3 Purpose

In this section the purpose and challenges of the project is introduced to the visitors.

**TeamAware** Purpose Project Overview Resources News & Events Forum Contact

## Purpose

The main objective of the TeamAware Project is to develop an integrated and cost-efficient situational awareness system for first responders from different sectors with heterogeneous and hardly interoperable sensor units including drone mounted, wearable, and external sensor systems. Thus, TeamAware enhances crisis management, flexibility and reaction capability of first responders from different sectors through real-time, fused, refined, and manageable information by using highly-standardised augmented reality and mobile human machine interfaces.

### Challenges

- Real-time localisation and real-time monitoring of first responder team members
- Detection of surrounding threats and risks
- Fusion of information from several types of sources
- Presentation of fused information via user-friendly displays

### Stakeholders

Dissemination activities targeting the 5 main stakeholder groups will be executed to identify value of TeamAware and generate awareness and expectation in relevant networks, as of the first day of the project.

- Priority Group 1 - End-User Community**  
End-user community that represent "potential customers" including firefighters, first responder organisations, LEAs, MDs, practitioner organisations, and experts
- Priority Group 2 - Policy and Decision Makers**  
Policy and decision makers that represent "influencers, deciders and regulators" in the area of emergency operations and first responder activities such as: emergency response coordination centre (ERCC), EU civil protection mechanism, national and European homeland security agencies, national ministries of home affairs and defence, safety regulation agencies, standardisation entities, professional associations etc.
- Priority Group 3 - Business Community**  
Technology developer industry organisations, SMEs, industrial associations, umbrella organisations, national/European level industry platforms, consultants, solution providers, system integrators etc.
- Priority Group 4 - Research Community**  
Universities, research centres/institutes, academicians, researchers etc.
- Priority Group 5 - General Public**  
NGOs, civil society, citizens etc. and professionals from other technological domains

Figure 4 – Screenshot from the Purpose Page

## 2.4 Project Overview

In this part, the project overview, workpackages and the consortium is presented to the visitors.

## Project Overview

TeamAware is a Research & Innovation Action type project with a consortium of 24 private and public organisations from 13 different countries. An efficient and a robust management structure has been set to ensure that the TeamAware project delivers the targeted technical breakthroughs within the foreseen time and resource limits.

### Vertical Applications

#### Visual scene analysis system

Visual scene analysis system analyses the emergency zone in terms of hazards and threats regarding buildings and infrastructure. It will be used to detect the victims and it will detect anomalies such as smoke, fire, abnormal heating, etc.

#### Infrastructure monitoring system

The images and videos captured by drone mounted cameras and head mounted cameras will be utilised for infrastructure monitoring system. It will be used to recognise and detect ruin and building damage identification; rubble identification; energy asset inspection; and building risk assessment.

#### Acoustic event detection system

TeamAware system deploys drone mounted electro optical, and acoustic event detection systems so that they can be used when it is hard or impossible to respond to an event due to obstacles or life-threatening risks.

#### Chemical detection system

Chemical detection system predicts the dispersion model of the chemical agents so that first responders can evacuate the zone. It is able to operate in joint and independent modes with chemical dispersion model and decision support.

#### Team monitoring system

Team monitoring system provides an integrated continuous outdoor/indoor localisation and health and body motion analysis system to monitor the health status, activities, motion anomalies and location of the first responders.

#### Citizen involvement and city integration system

Citizen involvement and city integration system provides citizen involvement in events while using social media and city IoT sensor infrastructure.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101019808.

#### Project Acronym

TeamAware

#### Project Name

Team Awareness Enhanced with Artificial Intelligence and Augmented Reality

#### Topic

SU-DRS02-2018-2019-2020

#### Budget

6.964.702 EUR

#### Duration

May 2021 - May 2024

#### Quick Links

- [Purpose, challenges, and stakeholders](#)
- [Consortium partners](#)
- [Work packages](#)

### Horizontal Architecture

Figure 4 – Screenshot from the Project Overview Page

## Work Packages

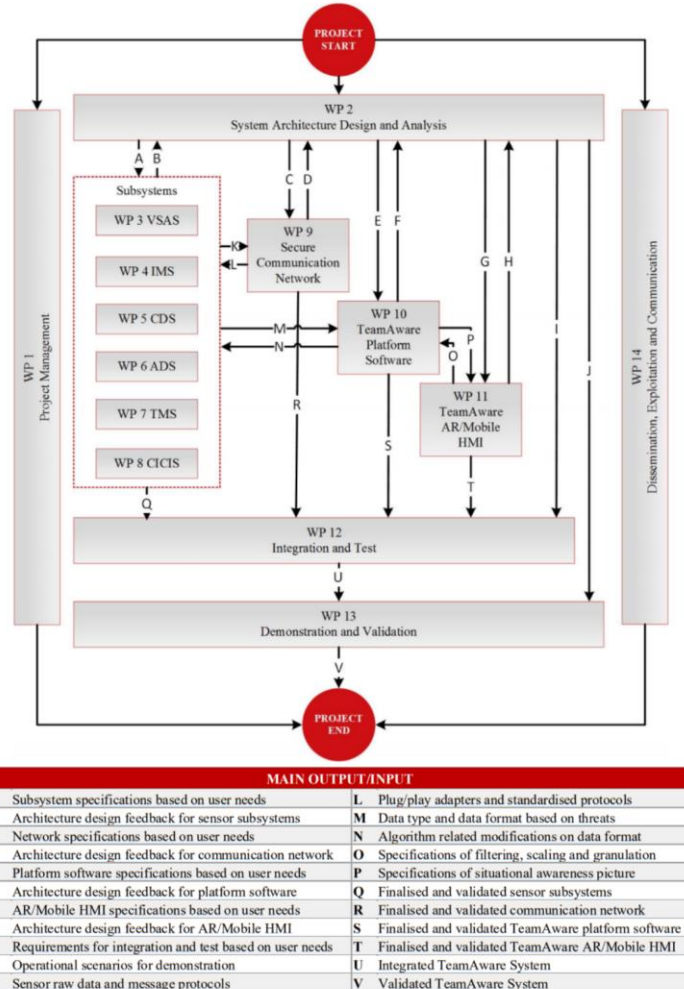


Figure 4 – Screenshot from the TeamAware Workpackages

## Consortium



Figure 4 – Screenshot from the TeamAware Consortium

## 2.5 Resources

In the resources part, the articles, press and public project material will be presented.

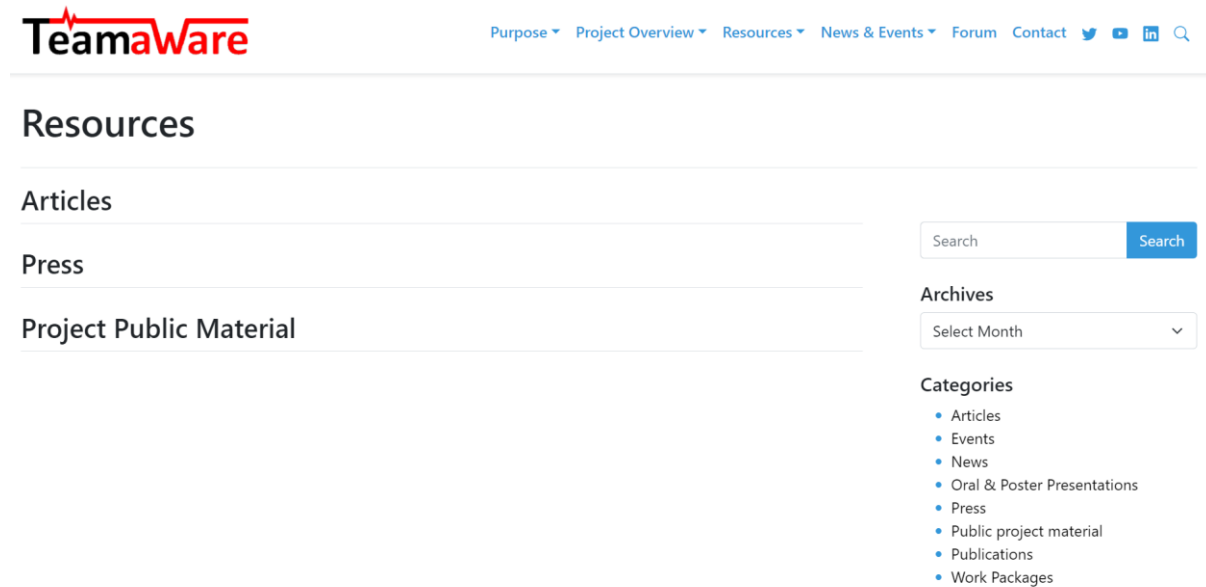


Figure 4 – Screenshot from the Resources Page

## 2.6 News and Events

In the news and events section, all the news and events (realized and planned) are presented.

**TeamAware** Purpose ▾ Project Overview ▾ Resources ▾ News & Events ▾ Forum Contact [Twitter](#) [YouTube](#) [LinkedIn](#) [Search](#)

## News & Events

### News

**1<sup>st</sup> Monthly Project Plenary Meeting**  
 Sep 10, 2021 | News  
 First monthly project plenary meeting was held on 10th of September, 2021.  
[Read more](#)

**WP2 Technical Co-creation Workshop**  
 Sep 8, 2021 | News  
 WP2 Technical co-creation workshop has realized on 8 September 2021, 09:00 – 11:30 CET.  
[Read more](#)

**Welcome to TeamAware**  
 Aug, 2021 | Issue 1  
 We are thrilled to set ourselves on this Horizon 2020 Research and Innovation Action project, under the call H2020-SU-SEC-2019 (SU-DRS02-2018-2019-2020) – Technologies for first responders, (total budget of 6,964,702 EUR) for the next three years (May 2021 – Apr 2024).  
[Read more](#)

Search  [Search](#)

**Archives**  
 Select Month

**Categories**

- Articles
- Events
- News
- Oral & Poster Presentations
- Press
- Public project material
- Publications
- Work Packages

### Events

#### Oral & Poster Presentations

Figure 4 – Screenshot from the TeamAware News and Events

## 2.7 Forum

We aim to convene an TeamAware Forum, where the consortium will establish a network of active stakeholders with whom they will exchange professional expert knowledge on TeamAware related issues, through requests for input, reviews of deliverables and participation in round-table discussions. To this end, all consortium members will invite a number of experts to participate in the TeamAware forum. With respect to the protection of confidential project data and outputs, the forum participants will be asked to sign a non-disclosure agreement. For this forum, CMINE project is planned to be used.

The Crisis Managers Innovation Network Europe (CMINE) is an open, cooperative and inclusive information network for sharing information, experiences, best practice and lessons learned among individuals, crisis management organisations, researcher entities, industry and policy makers throughout Europe and beyond.

Developed and funded within the H2020 mechanism as part of the Driver+ project, CMINE has the ongoing support of the Commission’s Research Executive Agency (REA) with a stated ambition to grow it to add users and functionality to the existing DG HOME ‘Community of Users’ and DG ECHO UCPM ‘Knowledge Network’. The platform is now managed by The Resilience Advisors Network™ (RAN) with the express intention of supporting individual crisis managers, project teams and research establishments.

It is already well-used by more than 1000 individuals. It also for example, hosts the Network of Centres of Expertise which were formed to support projects and initiatives that involve the trialling of



innovative technical solutions in the field of Crisis Management. This network extends the scale of support available to members considerably.

In the CMINE.EU web site, a dedicated Forum area will be created for TeamAware project. The TeamAware Forum link in the TeamAware web site will be directed to this area. In this way, we will be able to attract more crisis and emergency management professionals.

In addition to forum platform provided, CMINE offers a useful platform for organising dissemination events and conferences (live and virtual). It handles invitations, ticketing and registration. It also includes a professional meeting platform (Zoom) for virtual meetings and can facilitate other platforms as required. During the course of the project, these offerings will be utilized.

The screenshot displays the TeamAware forum interface. At the top, there is a navigation menu with 'Groups & Forums' highlighted. A search bar is located at the top center. Below the navigation, a grid of member logos is shown, including HAVELSAN A.Ş. (Turkey), Tree Technology SA (Spain), Thales SIX GTS (France), ENIDE Solutions, S.L. (Spain), Sabanci University (Turkey), EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS (Greece), and Eticas Research and Innovation (Eticas Foundation) (Spain). The 'TeamAware' group header is visible, showing a 'Joined' button. The main content area has a 'Write a post' section with a search bar and a message 'No matches found based on your search criteria'. On the right, there is an 'About' section describing first responders and a 'Contact(s)' section listing YILDIRAY KABAK, Monica Florea, Jon Hall, and Tolga Sonmez.

Figure 4 – Screenshot from the TeamAware CMINE Forum

### **3 Next Steps and Conclusions**

As our innovative and exciting project evolves, we will add more content, features, resources and interactivity to our evolving website resource. The TeamAware project has real potential to add effectively to the body of knowledge on the use of IoT systems and integrated technologies to better support first responders at their emergency operations and we look forward to utilising our website resource as a mechanism for sharing our exciting work with a variety of stakeholders.

We will also ensure our presence in our wider academic and technical communities by delivering presentations at conferences, key meetings and workshops. We will also publish academic papers on our work and distribute quarterly newsletters to update our community on our activities. We will continue to build and develop our website structure to reflect these activities and share files and links to papers and presentations and newsletters whenever we can as appropriate.