assistance

Start date	01/05/2019
End date	30/04/2022
Call	H2020-SU-DRS02-2018-2019-2020 (Technologies for first responders)
Partners	19
Countries	8
Project Coordinator	Universitat Politécnica de Valencia

PARTNERS

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assistance

Adapted Situation Awarene**SS** tools and ta**I**lored training scenarios for increa**S**ing capabili**T**ies and enh**AN**cing the prote**C**tion of First Respond**E**rs

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The main purpose of ASSISTANCE project is twofold: **to help and protect different kind of first responders' (FR) organizations that work together during the mitigation of large disasters (natural or man-made) and to enhance their capabilities and skills for facing complex situations** related to different types of incidents.

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

With this solution, ASSISTANCE will **enhance the FRs SA** during their mitigation activities **through the integration of new paradigms, tools and technologies** with the main objective of **increasing both their protection and their efficiency**.

This will be achieved by accomplishing the following operational objectives:

+ addressing the need for useful operational information via new sensors mounted on unmanned platforms or integrated in the FR's wearable equipment,

+ developing a novel SA platform, including the integration of UAV, robots and drones' swarms and innovative modules,

+ establishing the core of an advanced training network based on Virtual Reality (VR), Mixed Reality (MR) and Augmented Reality (AR) along with a set of training curricula,

+ providing a robust network infrastructure and alternative ad-hoc network capabilities based on drones' swarm for ensuring FRs and unmanned platforms connectivity,

+ validating the project results in a cost effective way under real conditions in 3 pilot demonstrations,

+ measuring the societal impact of the project and assure compliance with legal, gender and ethical EU principles and requirements.

WEARABLE SMART SENSORS   ROBOTS   SWARMS OF DRONES   UAV

PROPRIETARY PROTOCOLS

SENSOR ABSTRACTION SERVICE
ADAPTED INTERFACES

ROBUST COMMUNICATIONS

FIREMEN MODE   MEDICAL EMERGENCY SERVICE MODE   LEAs MODE

ADAPTED SITUATION AWARENESS TOOL

ADVANCED TRAINING NETWORK BASED ON VIRTUAL, MIXED AND AUGMENTED REALITY

SPECIFIC TRAINING CURRICULA FIREMEN   SPECIFIC TRAINING CURRICULA MEDICAL EMERGENCY SERVICES   SPECIFIC TRAINING CURRICULA LEAs

ENHANCE PROTECTION

IMPROVE RESILIENCE

INCREASE CAPABILITIES