



H2020 – Secure societies - Protecting freedom and security of Europe and its citizens
SU-DRS02-2018-2019-2020– Technologies for first responders – Research and Innovation Action (RIA)



Emerging technologies for the Early location of Entrapped victims under Collapsed Structures & Advanced Wearables for risk assessment and First Responders Safety in SAR operations

D8.6 S&R Use Case 5: Victims trapped under rubbles (France) - Pilot plan

Workpackage: WP8 – S&R Validation and Demonstration

Authors:	EPAYPS
Status:	Final
Due Date:	30/06/2021
Version:	1.00
Submission Date:	30/06/21
Dissemination Level:	PU

Disclaimer:

This document is issued within the frame and for the purpose of the Search and Rescue project. This project has received funding from the European Union's Horizon2020 Framework Programme under Grant Agreement No. 882897. The opinions expressed and arguments employed herein do not necessarily reflect the official views of the European Commission.

This document and its content are the property of the Search and Rescue Consortium. All rights relevant to this document are determined by the applicable laws. Access to this document does not grant any right or license on the document or its contents. This document or its contents are not to be used or treated in any manner inconsistent with the rights or interests of the Search and Rescue Consortium or the Partners detriment and are not to be disclosed externally without prior written consent from the Search and Rescue Partners. Each Search and Rescue Partner may use this document in conformity with the Search and Rescue Consortium Grant Agreement provisions.




(*) Dissemination level. -PU: Public, fully open, e.g. web; CO: Confidential, restricted under conditions set out in Model Grant Agreement; CI: Classified, Int = Internal Working Document, information as referred to in Commission Decision 2001/844/EC.











Search and Rescue Project Profile

Grant Agreement No.: 882897

Acronym:	Search and Rescue
Title:	Emerging technologies for the Early location of Entrapped victims under Collapsed Structures & Advanced Wearables for risk assessment and First Responders Safety in SAR operations
URL:	www.search-and-rescue.eu
Start Date:	01/07/2020
Duration:	36 months

Partners

	NATIONAL TECHNICAL UNIVERSITY OF ATHENS (NTUA) <u>Co-ordinator</u>	Greece
	AIDEAS OÜ (AIDEAS)	Estonia
	SOFTWARE IMAGINATION & VISION S.R.L (SIMAVI)	Romania
	MAGGIOLI SPA (MAG)	Italy
	KONNEKT-ABLE TECHNOLOGIES LIMITED (KT)	Ireland
	THALES ITAIA Italia SPA (THALIT)	Italy
	ATOS IT SOLUTIONS AND SERVICES IBERIA SL (ATOS)	Spain
	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS (CERTH)	Greece
	UNIVERSITA DEGLI STUDI DI CAGLAIRI (UNICA)	Italy

	UKEMED GLOBAL LTD (UGL)	Cyprus
	PUBLIC SAFETY COMMUNICATION EUROPE FORUM AISBL (PSCE)	Belgium
	UNIVERSITA DEGLI STUDI DI FIRENZE (UNIFI)	Italy
	DEUTSCHES FORSCHUNGSZENTRUM FÜR KUNSTLICHE INTELLIGENZ (DFKI)	Germany
	UNIVERSITA CATTOLICA DEL SACRO CUORE (UCSC)	Italy
	VRIJE UNIVERSITEIT BRUSSEL	Belgium
	SYNYO GmbH (SYNYO)	Austria
	UNIVERSITEIT HASSELT (UHASSELT)	Belgium
	SPOLECZNA AKADEMIA NAUK (SAN)	Poland
	GIOUMPITEK MELETI SCHEDIASMOΣ YLOPOIISI KAI POLISI ERGON PLIROFORIKIS ETAIREIA PERIORISMENIS EFTHYNIS (UBITECH)	Greece
Search and Rescue End-Users		
	ELLINIKI OMADA DIASOSIS SOMATEIO (HRT)	Greece

	ENOSI PTYCHIOYCHON AXIOMATIKON YPAXIOOMATIKON PYROSVESTIR OY SOMATEIO (EPAYPS)	Greece
	JOHANNITER-UNFALL-HILFE EV (JOHAN)	Germany
	JOHANNITER OSTERREICH AUSBLIDUNG UND FORSCHUNG GEMEINNUTZIGE GMBH (JOAFG)	Austria
 Consiglio Nazionale delle Ricerche	CONSIGLIO NAZIONALE DELLE RICERCHE	Italy
	POMPIERS DE L'URGENCE INTERNATIONALE (PUI)	France
	ASOCIATIA CLUSTERUL ROMAN PENTRU PROTECTIE SI ECOLOGIE IN DOMENIUL MATERIALELOR CHIMICE, BIOLOGICE, RADIOLOGICE/NUCLEARE SI EXPLOZIVE (PROECO)	Romania
	SERVICIO MADRILENO DE SALUD (SERMAS)	Spain
	FUNDACIÓN PARA LA INVESTIGACIÓN E INNOVACIÓN BIOSANITARIA DE ATENCIÓN PRIMARIA (FIIBAP)	Spain
	ESCUELA ESPAÑOLA DE SALVAMENTO Y DETECCIÓN CON PERROS (ESDP)	Spain

Document History

Version	Date	Author (Partner)	Remarks/Changes
0.10	25/05/2021	Michail Chalaris (EPAYPS)	Final Template of Deliverable
0.20	15/06/2021	Philippe BESSON Iliana KORMA (PUI)	Content
0.30	20/06/2021	Fabio Cibella (CNR) Cristina Gomez Usabiaga (SERMAS)	Internal Review
0.40	27/06/2021	Nicolae Maruntelu (PROECO)	Internal Review
0.50	28/06/2021	Michael Kontoulis, Iliana Malliou (NTUA)	Quality Control
1.00	30/06/2021	Christos Ntanos (NTUA)	FINAL VERSION TO BE SUBMITTED.

Table of Contents

1 Plan Form for D8.6 – Use Case 5 7

1 Plan Form for D8.6 – Use Case 5

Title of UC5: Victims trapped under rubbles (France)

1. Introduction

Use Case 5 is the fifth pilot testing called «Victims trapped under rubbles» that will take place during SnR project. This test will be held on a site of 3 ha/7.5 ac, which is the International Emergency Firefighters' (PUI) training facility and has been approved by INSARAG in 2015. The place meets the conditions of a real-life situation according to the United Nations INSARAG standards.

The facility is well located between various European countries and can be easily accessed.

The site can be easily accessed using various means of transportation:

- by car: A20 motorway, exit 23.
- by train: a station is 200 m (0.1 mi) away —Paris-Toulouse rail-line.
- by airplane: the Limoges international airport is only 35 minutes away.

The area is dedicated to training, maintaining and increasing the specific skills of The first responders.

The temperatures within June are fine and the possibility of rain is not so high as well.

2. Responsible End – User Organization

Pompiers de l' Urgence Internationale (PUI France)

3. Time (*) and place

UC5 will take place within June 2022 at 8.00 a.m. in a region called "La Souterraine, France" close to Limoges.

4. Components (*) / technologies that will be tested

The components that will be tested are the rescue MIMS, drones, Situational Awareness Model, Emergency communication App, PHYSIO DSS, Wearable tracker and the connected uniforms. In the specific area, the first simulation/training activities will be carried out thanks to the first data acquired by the monitoring systems (vibrational - environmental - on images). A rubble area will be also created for the use of searching and locating devices, drone overflights and the medicalization of buried victims. Other layouts will enable USAR teams to work in real-life, operational USAR conditions with designated areas for a base of operations, a USAR coordination cell (UCC) and a medical centre.

5. First version of KPIs

- ✓ Notification and coordination time
- ✓ Time for crisis notification call issues by the Operations Centre to reach user's communication devices
- ✓ Time needed for a user's post (e.g. text, photo) to be transmitted in other user's mobiles
- ✓ Effectiveness in supporting the communication and coordination between first responders on the field and the Operations Centre provided by the tested devices/tools

- ✓ Effectiveness in monitoring the first responders/volunteers/victims' health vitals
- ✓ Average time until unaffected persons reach safe assembly points
- ✓ Total evacuation time for all actors
- ✓ Average time spent by victims on the scene

6. Participating technical support partners (internal) and other members of consortium SnR as Players, Observers and Evaluators etc

Pompiers de l' Urgence Internationale (PUI France) will be the leaders of this Use Case that will take place in France. The technical partners: KT, THALIT, ATOS, NTUA will provide support to PUI as well. Additionally, PUI members will participate into the specific use case, doctors, dogs, USAR, pilots of the drones.

7. External Participants as players, evaluators, actors-guests in UC

Local stakeholders will be invited and from other rescue teams depending on the conditions of covid-19 pandemic.

8. Ethics Approval

The users will complete a consent form in order to participate to the pilots.

9. Gaps/ Problems that should be closed and context in which they appear

Some risks can be the following:
 The rain
 The equipment may not work
 The data cannot be transferred

10. Certificates of Participation

A certificate of attendance prepared by PUI France -the local organiser- will be handed out to all participants in the specific use case (UC5), which will help them demonstrate the acquired knowledge.

11. Planning Team of UC

PUI President and leader of the use case/EXCON (Exercise Controller): Philippe BESSON
 Safety/Security officer : Aurélien BERGER
 Trainers: Laurent GAUTHIER-Arnaud LIDOREAU – Alain DEFFONTIS – Hervé BOBIN – Vincent LACHATRE - Alain CHOPLAIN – Christelle BESSON
 Logistics : Jacques VANDE PUT – Christian LONDEIX
 Drones : Antoine TERRIBLE – Jacques VANDE PUT
 Members: Iliana KORMA
 Doctors: Dr. JF PONS – Pierre BOUSQUET – Alain BLOND
 Nurses: Joel CARRER – Charlotte FEVE – Françoise GOURMENT – Virginie WEISS
 Ambulance : local fire brigade (Call 18 or 112)

Vehicles : Yves SAGE – André PLANCHAUD