

# What is IOPES?

The IOPES project integrates wearable positioning technologies, LTE/5G portable and easily deployable communications, a seasoned IT-based emergency management system as well as fast mapping products in order to track the positions of the members of emergency teams, no matter whether they are indoors or outdoors, willing to strengthen the preparedness of civil protection and emergency teams involved in several kind of disaster-related operations.



CPET equipped with indoor outdoor positioning device



LTE/5G deployable comms.



Enhanced EMS (live tracking + post - mortem analysis)



RPAS - based fast mapping



## Information

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## Consortium



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### Indoor-Outdoor Positioning for Emergency Staff



# Goals

## 1 POSITIONING

Provide continuous, time-tagged information about the location of Civil Protection Emergency Teams (CPET), either indoors or outdoors.

## 2 MANAGEMENT

Track the positions of the members of the emergency team as a new feature of an already operational Emergency Management System (EMS).

## 3 FAST MAPPING

Build detailed maps of the area in short times using Remotely Piloted Aircraft Systems (RPAS) when there is no cartography available or it is too outdated.

## 4 COMMUNICATIONS

Use an easily deployable LTE/5G portable, autonomous communication system to avoid the need of existing (possibly damaged / inoperative) infrastructures.

## 5 DECISION MAKING

Improve the decision-making process of those people involved in the management of emergencies.

# Activities

### USER NEEDS



This activity includes the assessment of user needs through interaction with end-users and stakeholders and the definition of the scenarios used to test the IOPES system.

### OUTREACH



This activity seeks to make the outcomes of the project known by other civil protection and emergency collectives, by presenting it in scientific and specialized forums, webinars and a final conference.

### SYSTEM INTEGRATION



This activity takes care of all the technical aspects required to deliver an operational IT-based solution meeting the specifications collected from end-users.

### LONG-TERM SUSTAINABILITY



The aim of this activity is to identify and ideally provide all the possible resources at hand so the lifespan of IOPES goes far beyond this project itself, increasing its uptake.

### FIELD TESTING



Two functional exercises will be carried out in Spain and Germany, where the IOPES system will be put to the test in different environmental and emergency conditions.

# Outcomes

**JAN '20** Kickoff meeting  
1st users' meeting

**APR '20** System architecture definition

**DEC '20** 2nd users' meeting

**MAR '21** Prototype A  
1st field exercise

**SEP '21** Prototype B  
2nd field exercise

**DEC '21** Final System IOPES  
Conference Final meeting