



What are the most wanted new solutions to improve Europe PPDR capabilities

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Survey on Technologies Perception/Needs

- ✓ Questionnaire performed in February 2018 near PPDR organisations
- ✓ 11 EU countries have participated
+ 1 Non EU





SECTOR

Fire-Brigade

Police

Emergency
Services

Civil Protection,
Rescue and Red
Cross

Q. "Have you, or are you aware that any of your fellow first responders felt the need to use such technology in any emergency situation?"

Q. "Do you believe this technology can improve the protection of first responders against multiple and unexpected dangers, or enhance their capacities?"

TECHNOLOGY

SMART WEARABLES

UNMANNED AERIAL
VEHICLES (UAVs/DRONES)

VIRTUAL REALITY (VR)-
AUGMENTED REALITY (AR)

OTHER COMMUNICATION
SYSTEMS

INTERNET OF THINGS (IoT)



SMART WEARABLES

UNMANNED AERIAL VEHICLES (UAVs/DRONES)

VIRTUAL REALITY (VR)- AUGMENTED REALITY (AR)

Fire-Brigade

Essential to know the **temperature of the environment and the body functions** of the first respondent in order to anticipate a danger [3/6]

Need of this technology to **get access to highly dangerous areas in complex situations**, which could help preventing and saving time [5/6]

It is an asset if the **system recognizes multiple and unexpected dangers** [5/6]

Police

- It is needed a device that can give a **clear image/information at a very early time** [3/5]
- Not needed: concern about transmission of data through a device (not 100% trustworthy) [1/5]

- More technical items could bring **more data to operations** in order to make dangerous situations safer [3/5]
- Becoming highly dependent on technology might be **counterproductive** vs. technology can **release the human resources for missions** [1 vs. 1]

Devices should be improved taking into account that they can be **useful in trainings but not in real time operations** [3/5]

Emergency Services

- It is very important to have an adequate device to **measure the temperature of the environment** [3/4].
- Extra benefits: **information** [3]; improve the internal cooperation [2/4]

Need of **identifying risks** earlier than usual [4/4]

Need of **more research** (interesting to achieve: data in the moment, for training purposes) [3/4]

Civil Protection, Rescue and Red Cross

Devices could help **saving time and improving the situation awareness and command support** [5/5]

Needed for improving the **situation awareness** [4/5]

- **No evidence** of such development for first responders in **mid-term period** [4/5]
- It can be useful (training or evaluating a situation) [2/5]



INTERNET OF THINGS (IoT)

OTHER COMMUNICATION SYSTEMS

Fire-Brigade

- Need of **more research** [4/6] + It could be useful to build the **situational awareness** [2/6]
- Not needed [2/6]

- Mostly, useful to get to **victims of collapses** (earthquakes, avalanches and other accidents) [2/6]
- **Not needed** [4/6]

Police

General **big expectations** [5/5] but aware of the many future challenges. For example, **conflict with private data**

- **Simple and durable devices** that focus on communication with people who are isolated (accident or disability) [5/5].
- One mention to adapt these systems to use them in terrorist attacks

Emergency Services

Interest: evaluation and quality management, anticipating mistakes; training purposes [3/4]

- Focus on people to people: **language barriers, disabilities** (2/4)
- Very important in case of disaster: **quick information dissemination/alerting** (2/4)

Civil Protection, Rescue and Red Cross

- In case of imminent emergency situations, it would constitute a huge asset to the Public Safety sector in **increasing situational awareness** [3/5]
- Not needed (**maybe at a long term**) [2/5]

- Needed to transmit victim's health status to displaced emergency system and others [2/5]
- **Not needed** [4/5]

Next Steps

PSCE will prepare a White Paper in September presenting more in depth the results of the questionnaire

