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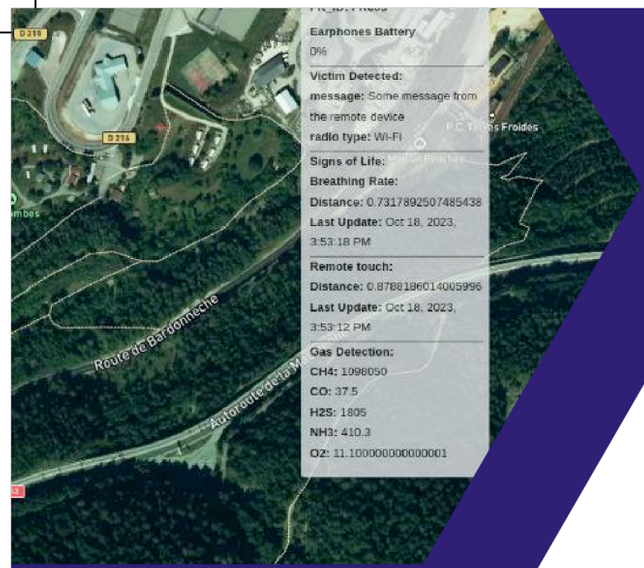

HERO COMMUNICATION Modules

COMMUNICATION GATEWAY: Ensure voice and data communications in environments without communications infrastructure, with ad hoc creation of private local area networks and direct networking of first responder devices.

C2 INTERFACE / COMMUNICATION WITH C2: Communication and Visualisation of all the data collected on a dedicated C2 Interface, including a mission recorder feature.

BLACK BOX : Device allowing to consult pre-recorded information concerning the invested building (map, points of interest such as gas depots) and to receive real time information from sensors possibly present in the building (number of people in the building, etc.).

EMERGENCY BLACK BOX FOR BUILDINGS (EBBB)

The EBBB goal is to serve as an information hub for first responders in indoor disaster scenes, providing information "in situ and infrastructure-wise" which can be helpful in search and rescue operations. The EBBB provides distinct types of data, locally accessible by the first responder team through a dedicated communication system (Ad Hoc network):

- Static building information
- Building status information based on sensors already installed in the building
- Data from internal sensors, such as, battery state of charge, temperature, humidity and motion detection.

COMMUNICATION GATEWAY

- Provision of a communication network independent from established telecommunications infrastructures, which may be absent or damaged in case of a disaster. The Communication Gateway is not directly operated by the first responder. It is an enabler tool, that acts as a "gateway" to the other tools, allowing them to share data and messages in the RESCUER ecosystem.

COMMUNICATION WITH C2 – C2 INTERFACE

- Interactive Map that provides a situational awareness system that allows the incident commander to easily see and evaluate the real-time data coming from the set of tools attached to first responder uniforms on the field and better assess possible risks during dangerous hazard events. This common operational picture is available online and features a representation of a number of RESCUER Modules' outputs.