



# SMART SAFETY SOLUTIONS





## Smart Assistant Firefighter Equipment (SAFE)

Innovative approach to overcome main limitations for tracking first responder inside indoor firefighting operations

# SAFE

### SMOKE

Failure of laser and vision-based tracking technologies

### Heat and flames

Failure of pre-installed monitoring devices

### GPS

inefficiency in indoor spaces

## How **SAFE** Works



01

### IMU (Inertial Measurement Unit)

Recording the position and movement of firefighters' legs



### Health Bracelet

Acquisition of firefighter vital signs

02



03

### Main processing unit

Receiving and processing data from IMU and Health Bracelet and transmit them to the gateway

### SAFE Gateway

Collecting and monitoring all firefighters information

04



## Unique Features

- Make a personal profile for each firefighter
- Assign a unique ID to each firefighter
- Two-dimensional and three-dimensional display of firefighters spatial information
- Comprehensive and real time monitoring of the operation process by the operation manager
- Accuracy and precision (Less than one meter error)
- Ask for help from the firefighter
- Display the charging status of the devices
- The exact location display of the injured firefighters to the rescue team in case of danger
- Display of firefighters' vital signs such as heart rate, body temperature, blood oxygen level, and blood pressure
- Following real time location base on the building plan





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