

# Novel Technologies & Informations Systems enabling cross-agency collaboration in response actions – The FR of the future (tentative title)

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- Role: *Proposal coordinator*
- Proposal activity: *SU-DRS02-2018, Open*

# Proposal idea/content

- *Development of an operational First Responder's support operational – highly modular toolkit and information system taking advantage of latest developments in First Responders' related technologies.*
  - *RPAs and SATCOM roles:*
    1. *remote sensing wide area assessment (disaster/city level or even larger)*
    2. *remote sensing local assessment*
    3. *In-disaster scene (e.g. building, CI) situational awareness (miniaturized RPAs carrying set of sensors)*
  - *Provision of robust, resilient, interoperable communication among FRs members, disaster area and HQ retrieving information from:*
    1. *Sensors carried by FRs & K9 units (low-powered wearables both in human and K9 units ensuring communication between handler & dog)*
    2. *Local mobile robotic platforms*
  - *Provision of AR/VR information at disaster scene level to FRs.*
- *Technologies to be used, adapted and integrated based on the expressed needs of FRs (interdisciplinary) and CPs (non exhaustive list):*
  - *RPAs / swarm of connected drones*
  - *Robotic Platforms*
  - *LIDARs / visual*
  - *Wearables*
  - *AR/VR*
- *The suggested solution will be easily deployable, modular, cost-efficient*

# Project participants

- Proposed coordinator: *ICCS (EL, RTO), expertise on mobile platforms and sensing network integration and deployment, AR/VR, intelligent information management and predictive analytics*
- Partners / Other participants: First Responders (USAR, LEA, EMS), IoT specialised SMEs, Research Centres
- Looking for partners with the following expertise/ technology/ application field:
  - *End-Users (focus on First Responders)*
  - *Technology partners with an expertise in the following fields:*
    - *RPAS (incl. swarms)*
    - *wearables*
    - *ruggedized autonomous robotic platforms for deployment in harsh conditions*