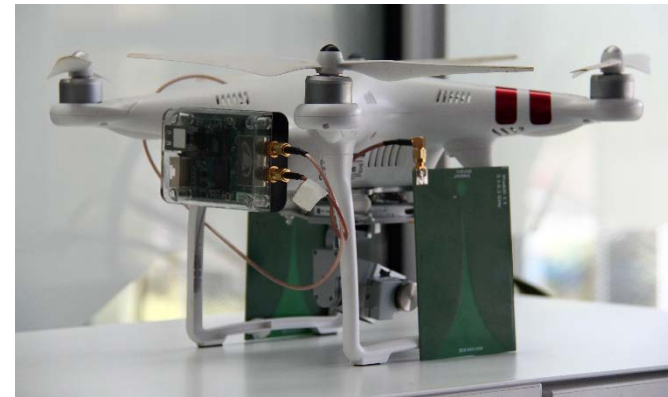


LIFESENSOR

- *Alicia Jiménez González*
- *ajimenez@gradient.org*
- *GRADIANT*
- *Role: WP leader, S/T provider. Possibility of being Proposal coordinator.*
- Proposal activity: SU-DRS02-2018-2019-2020 : Technologies for first responders. Sub-topic 1: [2018] Victim-detection technologies

Proposal idea/content

- We propose a *support system for search and rescue* based on *multiple sensors, particularly sensors onboard of aerial platforms* with the following characteristics
 - *Autonomous operation* of the sensors
 - *Low weight and power* consumption
 - *Grid-like search* over damaged area
 - *Collaborative operation* (swarm)
 - *Automatic alerts* on victim detection and optional monitoring
- Including *Lifesensor* by Gradient*
 - Radar system for *detection of non visible victims* near the surface
 - Proprietary algorithms and machine learning to *detect respiration and movement*
 - *Penetration capabilities* into debris and construction materials



* E-GNSS ACCELERATOR WINNER 2017, E-GNSS Regional Winner 2017,
2nd place E-GNSS Overall 2017



Project participants

- Proposed coordinator: *TBD*
- Looking for:
 - *End users: first responders, public/private search and rescue teams.*
 - *Drone integrators or operators*
 - *Radar and RF components providers*
 - *Other sensors providers: high sensitive microphones, IR/OE cameras, etc*