

DeepSee

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 - *Role: Coordinator*
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- *Proposal activity: SU-DRS02-2018-2019-2020, Open sub-topic*

Proposal idea/content

- Mitigation of **crisis** occurring in **interior environments** poses many challenges for **first responders: limited visibility and accessibility, unknown terrain and structural integrity, GNSS-denial, limited communications.**
- **DeepSee** is a versatile system that aims to **enhance the situational awareness** of first responders by employing new concepts of:
 - **human-machine cooperation** relying on **artificial intelligence**
 - **environment perception & interaction** relying on **virtual / augmented reality**

It is equipped with heterogeneous **autonomous** assets and **sensors** that provide various sources of **data, indoor positioning** and **extension of communications** efficiently by employing **swarming** behaviors.

Project participants

- Proposed coordinator: *IDE*
- Partners / Other participants: *artificial intelligence, virtual / augmented reality, communications, command & control, chemical sensors*
- Looking for partners with the following expertise/ technology/ application field:
 - *Autonomous assets, swarming*
 - *360 cameras (day/light), ToF / LIDAR sensors*
 - *Thermal, Environmental / Acoustical / CBRNE sensors*
 - *Indoor positioning, wearables*
 - *First responders, LEAs, medical emergency services*
 - *Training, legal, human factors experts*