MULTIDRONE AMBITION

- **Improved multiple drone decisional autonomy, robustness and safety.**
  - Adaptive/cooperative/dynamic (online) multiple drone (re)planning
  - Transparent interaction with production director/crew.
  - Improved safety during multiple drone mission execution
  - Robust multiple drone communications (control, video streaming and synchronization)
- **Innovative, safe and fast multiple drone active perception and AV shooting.**
  - Multiple drone semantic world modelling, vision and other sensor based target tracking.
  - Multiple drone AV shooting intelligence
  - Improved multiple drone human-centered visual information analysis both for individual persons and for crowds

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and innovation programme under grant agreement No 731667 (MULTIDRONE)

MULTIDRONE APPROACH

- The overall R&D methodology is based on a strong interplay between:
  a) Multiple drone mission planning/control
  b) active perception and mission (AV shooting) execution.
- Pre-production:
  - semantic world mapping
  - mission planning
- Production
  - multiple drone flight/formation control
  - active perception (multiple drone and target localization tracking),
  - cinematographic AV shooting.
  - safety/emergency monitoring/sensing
  - emergency handling.

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MULTIDRONE IMPACT

- Development of **innovative multiple drone systems** which achieve **measurable service** level gains in **AV shooting**.
- Measurable improvements in the provision of multiple drone **autonomy over an extended time scale**.
- Advances in the development and understanding of **new metrics** characterizing the operation of multiple drone systems.
- **New frontiers** for TV programme production and drone cinematography
- **Overcoming Barriers/obstacles** due to regulations, public acceptance and other factors

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