

**AERIAL MAPPING  
WITH  
AUTONOMOUS UAV**

**UNMANNED AERIAL VEHICLE**  
Initiates mission based on waypoints sent by the GCS.  
The onboard camera is autonomously triggered to capture geotagged images for mapping.

- **Opportunities:**
  - Time saving
  - Accurate than manual operation
- **Threats:**
  - Loss of data link
  - Bad weather
  - Powerline interference



**RADIO TRANSMITTER WITH ON SCREEN DISPLAY**

Flight data and drone images are displayed on the OSD.

The transmitter enables the pilot to take manual control of the UAV when necessary during operation.



**REMOTE PILOT**

Oversees the overall operation and initiates backup plans should the system fail.



**GROUND CONTROL STATION**

Sends waypoint mission to the UAV for mapping mission, IoT software collects flight data from the UAV and analyzes them for safe completion of mission