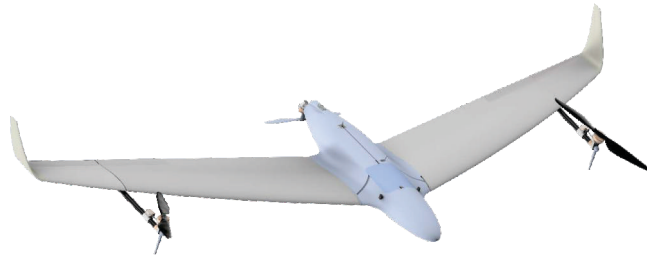


ENFORCING UAV

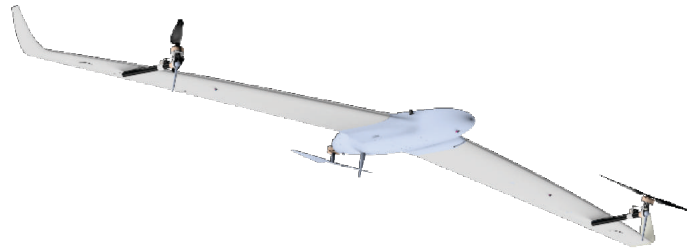
ENFORCING UAV



COMOTI
ROMANIAN RESEARCH &
DEVELOPMENT INSTITUTE FOR
GAS TURBINES



CAD image during development.

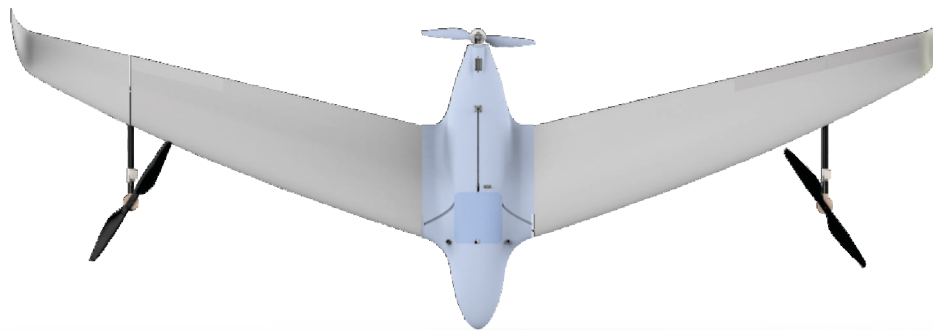


Project stage

- Design completed
- In the process of manufacturing

Technical details

- Hover flight time: over 3 hours
- Mass: 15 Kg
- Range of control: 15 km
- Cruise speed: 70 km/h
- Wing span: 4 meters
- 4 microphones on board
- Payload: Video Camera
- Capable of autonomous flight



Features

- Vertical take-off and landing capable
- Innovative tri-rotor system
- Autonomous flight over the airspace above the forests in order to intercept and locate the sound(using AI) produced by chainsaws to combat illegal tree cutting
- Capture meteorological data (pressure, temperature, humidity)



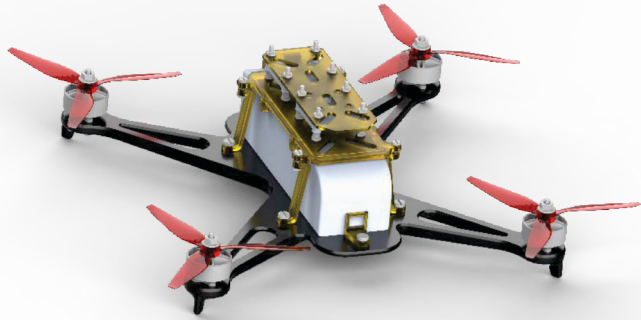
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**Research & Development
projects on drones within
COMOTI**

EVOTURBO FPV



CAD image during development.

Technical details

- Hover flight time: 25 minutes
- Mass: 1110 g
- Maximum speed: over 200 km/h
- Range of control: 1 km
- Propulsion to weight ratio at 75% power: 5.1

Mission

- UAV platform for the development of an experimental autopilot.

Project stage

- Design completed
- In the process of manufacturing

EVOTURBO CO-QUAD



CAD image during development.

Technical details

- Hover flight time: 57 minutes (30% remaining battery)
- Mass: 9550 g
- Range of control: 15 km
- Propulsion to weight ratio at 75% power: 2.36
- Payload: WIRIS SECURITYTY with Full HD 30x optical zoom and IR camera (800 x 600) and Night Vision
- Capable of autonomous flight

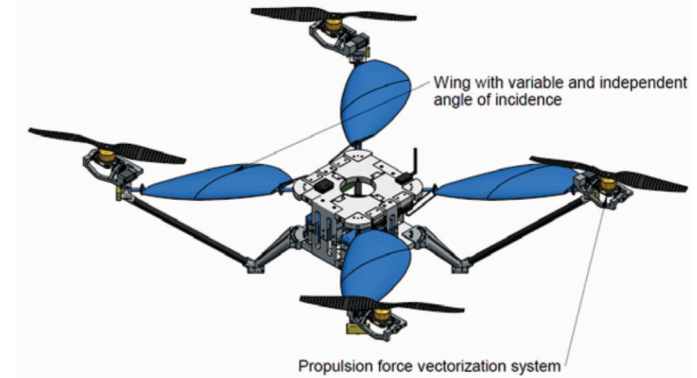
Mission

- UAV platform for the development of an experimental autopilot
- Surveillance
- Testing various equipment

Project stage

- Design completed
- In the process of manufacturing

TRANSCUMAT UAV



CAD image of final product.

Technical details

- Hover flight time: 20 minutes
- Mass: 15 Kg
- Range of control: 300 m
- Propulsion to weight ratio: 4
- 4 wings with independent adjustment of the angle of incidence
- 2 computer, one for control and one for automatic tilt rotors and control of the wings

Mission

UAV platform for the development of an hybrid system with wings.

Results

During forward flight, the wings produce lift, the engine speed is kept constant and thus, to maintain a constant flight altitude, the engines are vectorized, which leads to the following advantages:

- Increases maximum forward speed by 59%;
- Decreases energy consumption by 36%
- Extend the maximum flight distance by 58%.

Project stage

- Design completed
- Manufacturing finished
- Tested and operational