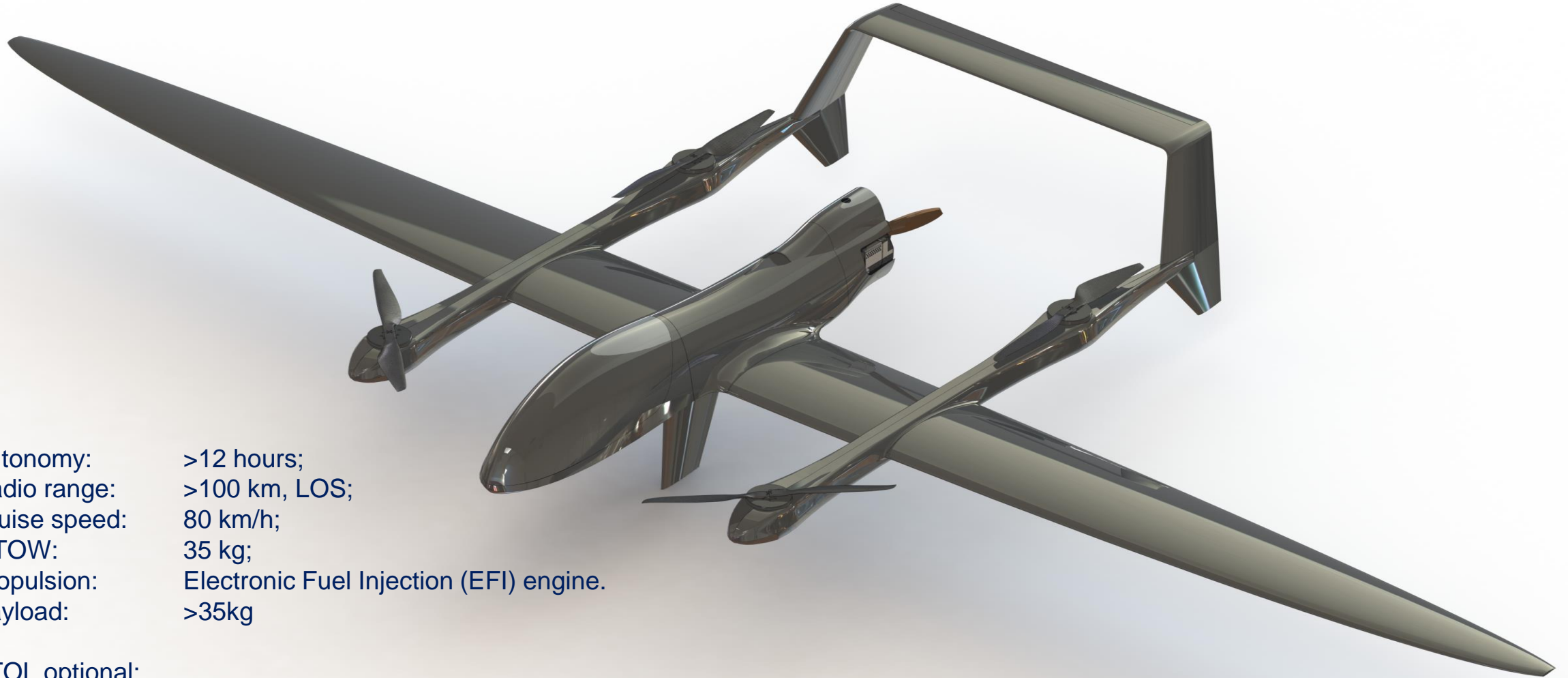




**ARKORY**  
Autonomous Robotics

**Signus 35V**

**VTOL Small Tactic System**

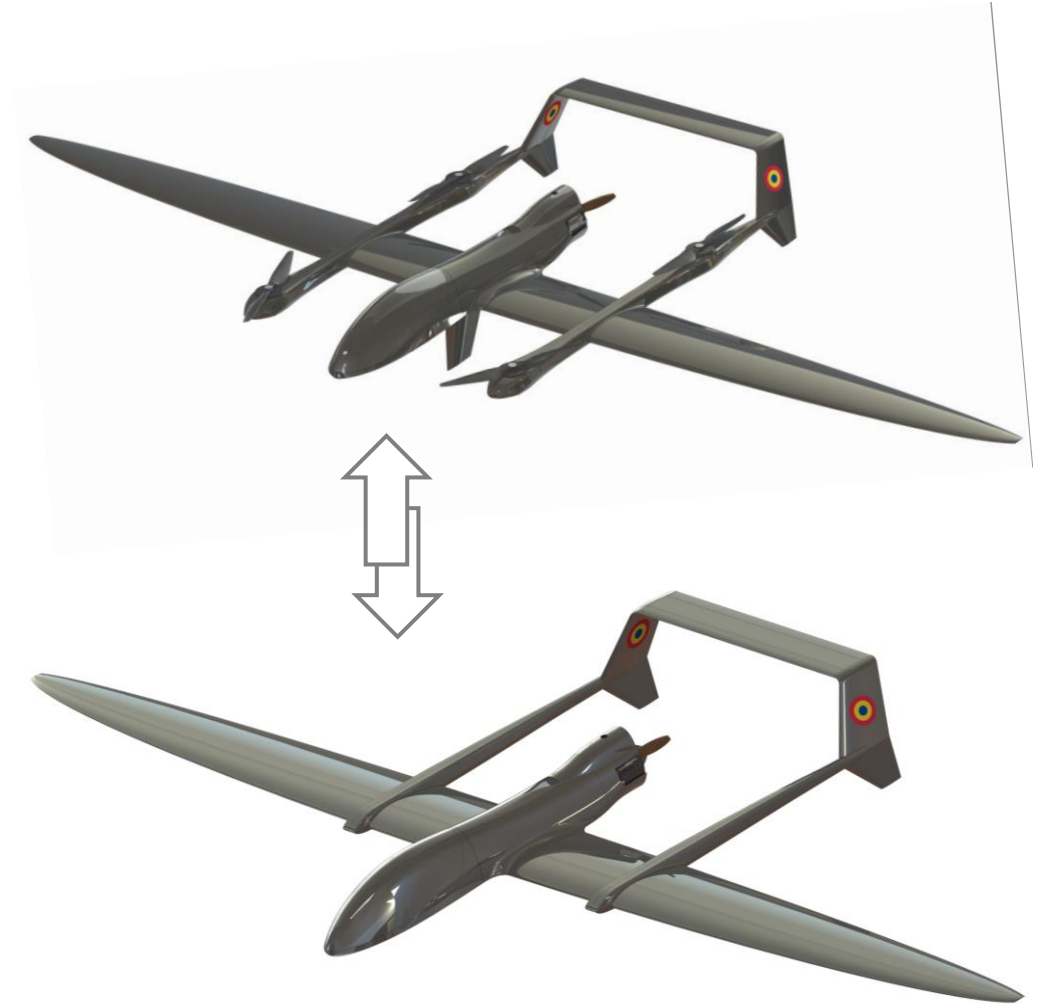
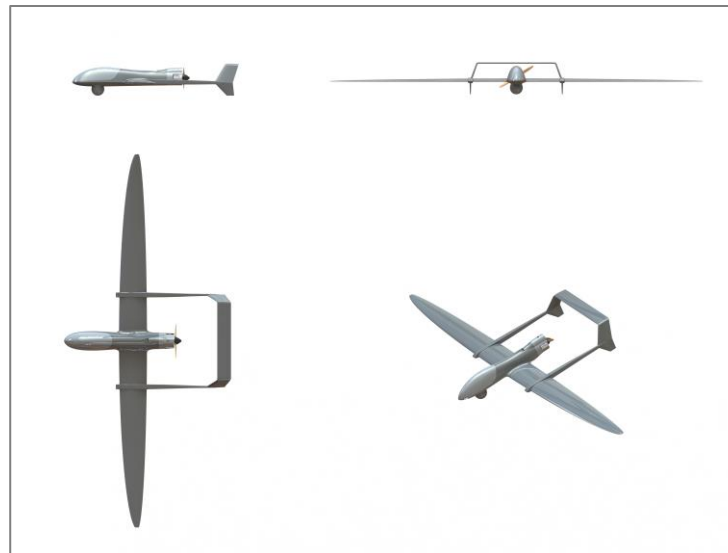
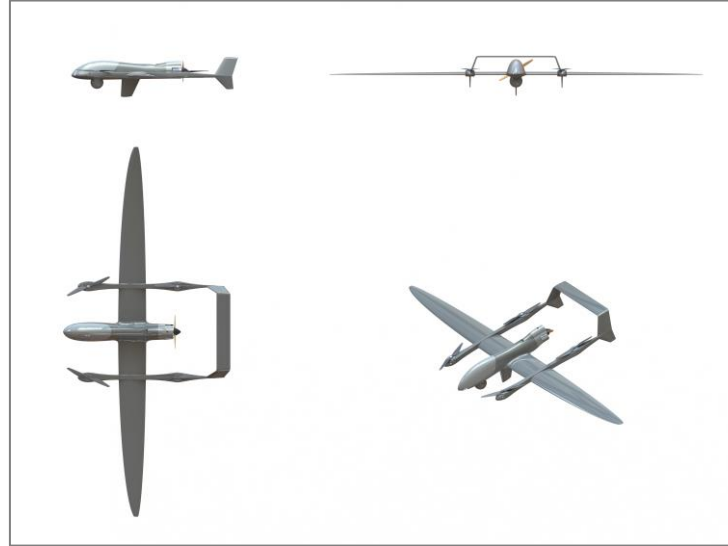
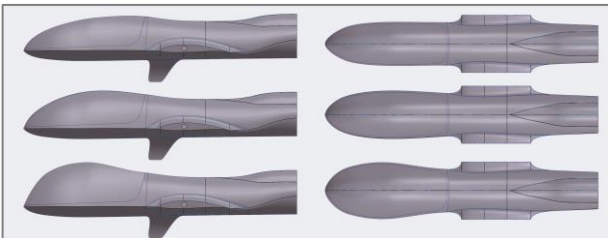
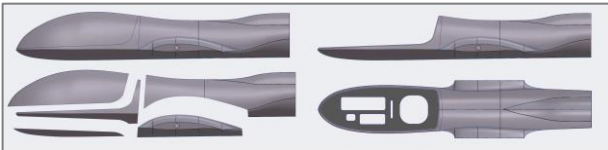


- Autonomy: >12 hours;
  - Radio range: >100 km, LOS;
  - Cruise speed: 80 km/h;
  - MTOW: 35 kg;
  - Propulsion: Electronic Fuel Injection (EFI) engine.
  - Payload: >35kg
- 
- VTOL optional;
- 
- AV can be equipped with various EO and IR sensors;
  - AV weapon integration capability.

The system as a whole and the Aerial Vehicle (AV) in particular, is designed to be highly modular.

This allows an easy conversion between Vertical Take-Off & Landing (VTOL) configuration and launcher assisted take-off configuration.

The fuselage is composed of several components designed to make it very easy to adapt it to different types of payloads





The concept is based on a MFD (Multi Functional Display) module.

It contains all the necessary capabilities required for managing the entire system:

- AV management;
- Payloads management;
- Communications system management;
- Safety system management.

This module can be organized both as portable stand-alone GCS and as modules inside a command shelter, to perform specific functions.

Thus, it a shelter-type organization, these modules can provide multiple functions for system operators.

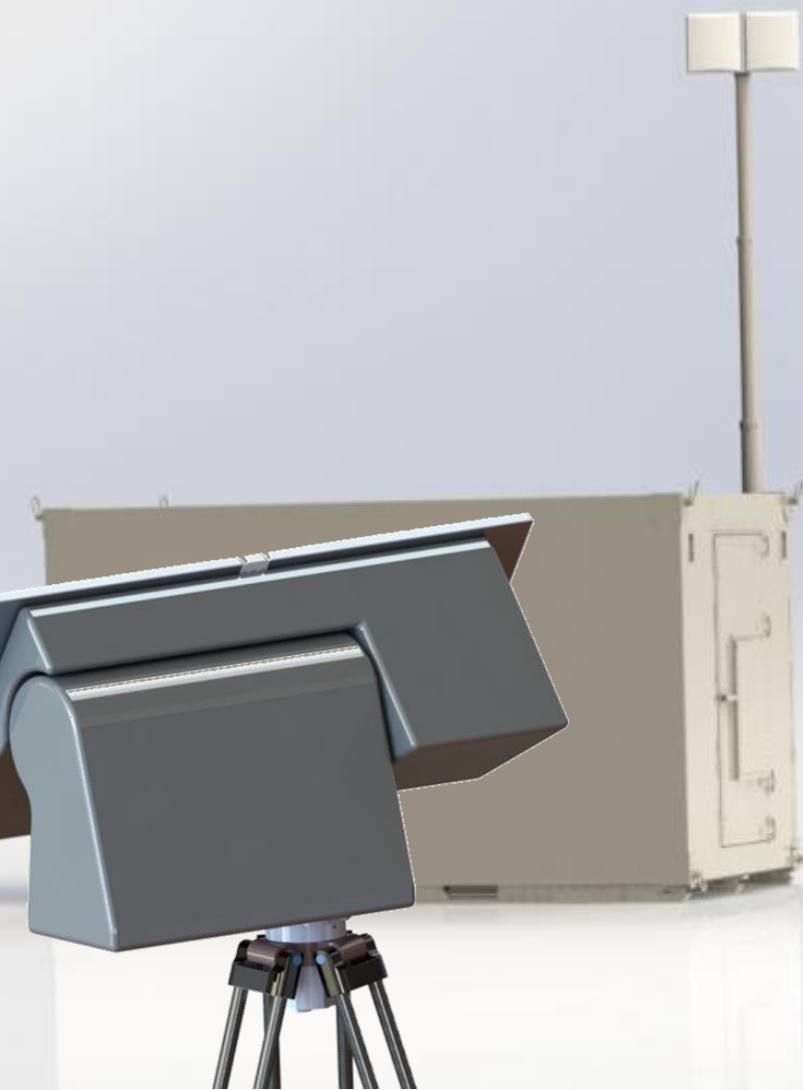
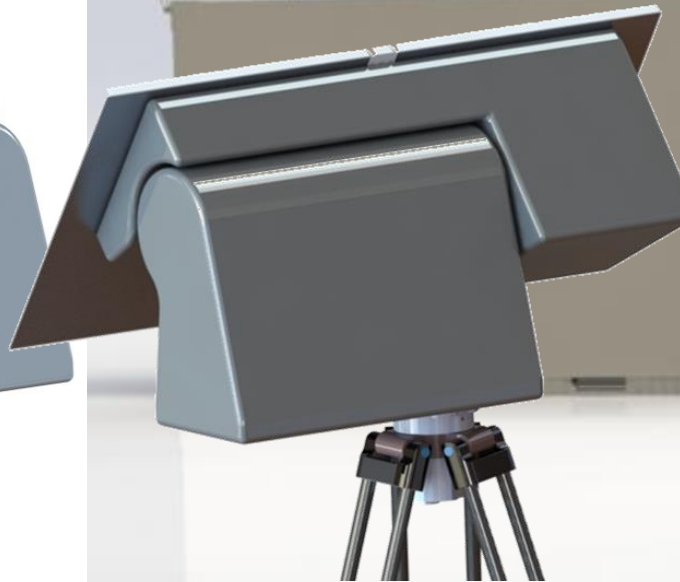


The Ground Data Terminal (GDT) provides the link between AV and GCS and include the antennae management terminal. It is part of the Data Link system.

The Data Link system includes the Airborne Data Terminal (located onboard the airplane) and the GDT (located on the ground). The GDT is modular. It can be installed on a tripod or on top of a telescopic mast, attached to the shelter.

The Data Link system is used to support the data exchange between the GCS and the AV (both telemetry and video data).

- Communication range up to 100 km LOS;
- Automatic AV tracking, both Pan and Tilt;
- Over-the-flight take over control (remote GDT);
- Remote Video Terminal (RVT);
- Remote GCS;
- Airborne Data Relay (ADR)
- Easy integration with C2-C4;
- Swarm capability.

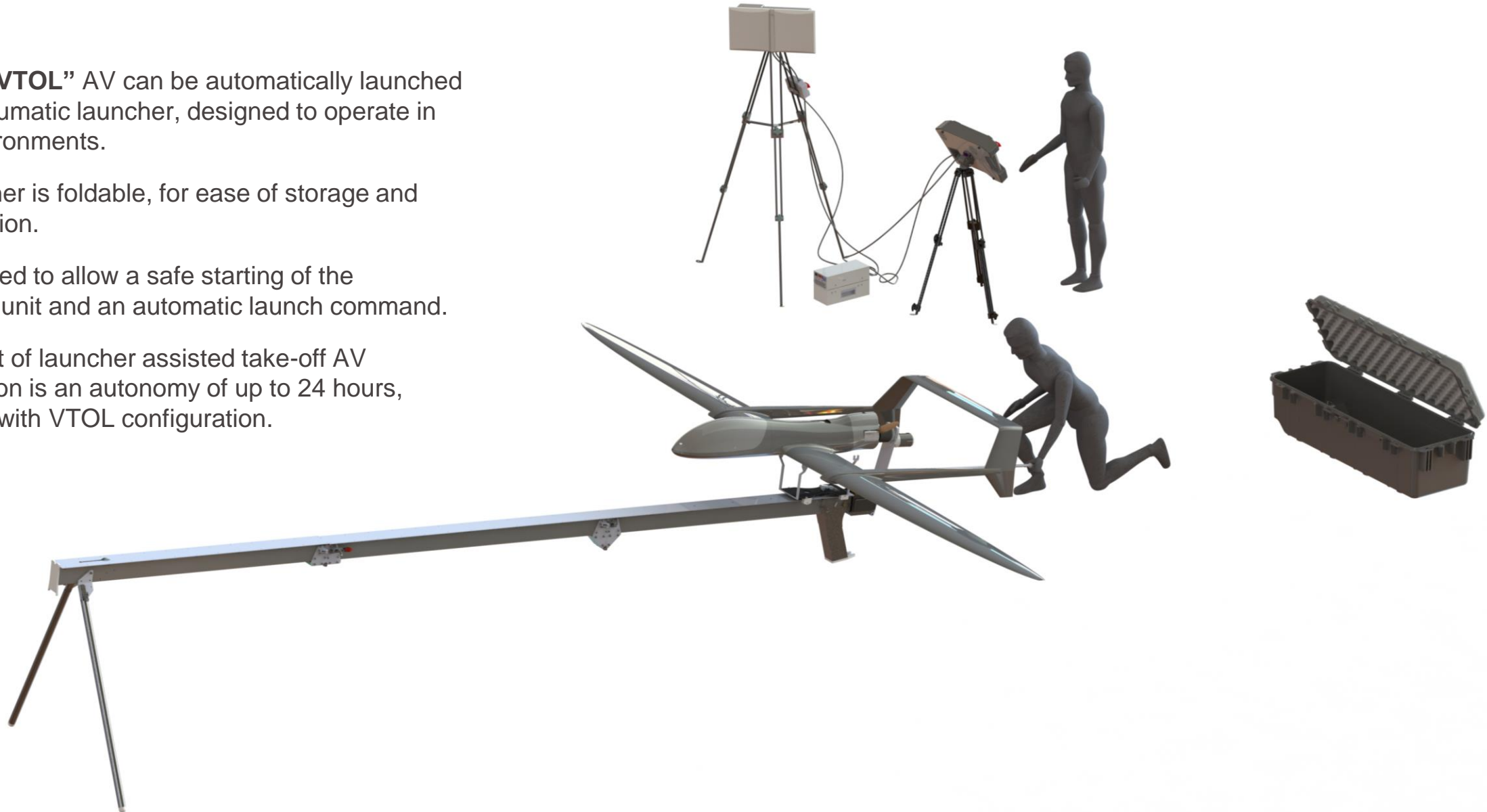


The “**non-VTOL**” AV can be automatically launched by the pneumatic launcher, designed to operate in harsh environments.

The launcher is foldable, for ease of storage and transportation.

It is designed to allow a safe starting of the propulsion unit and an automatic launch command.

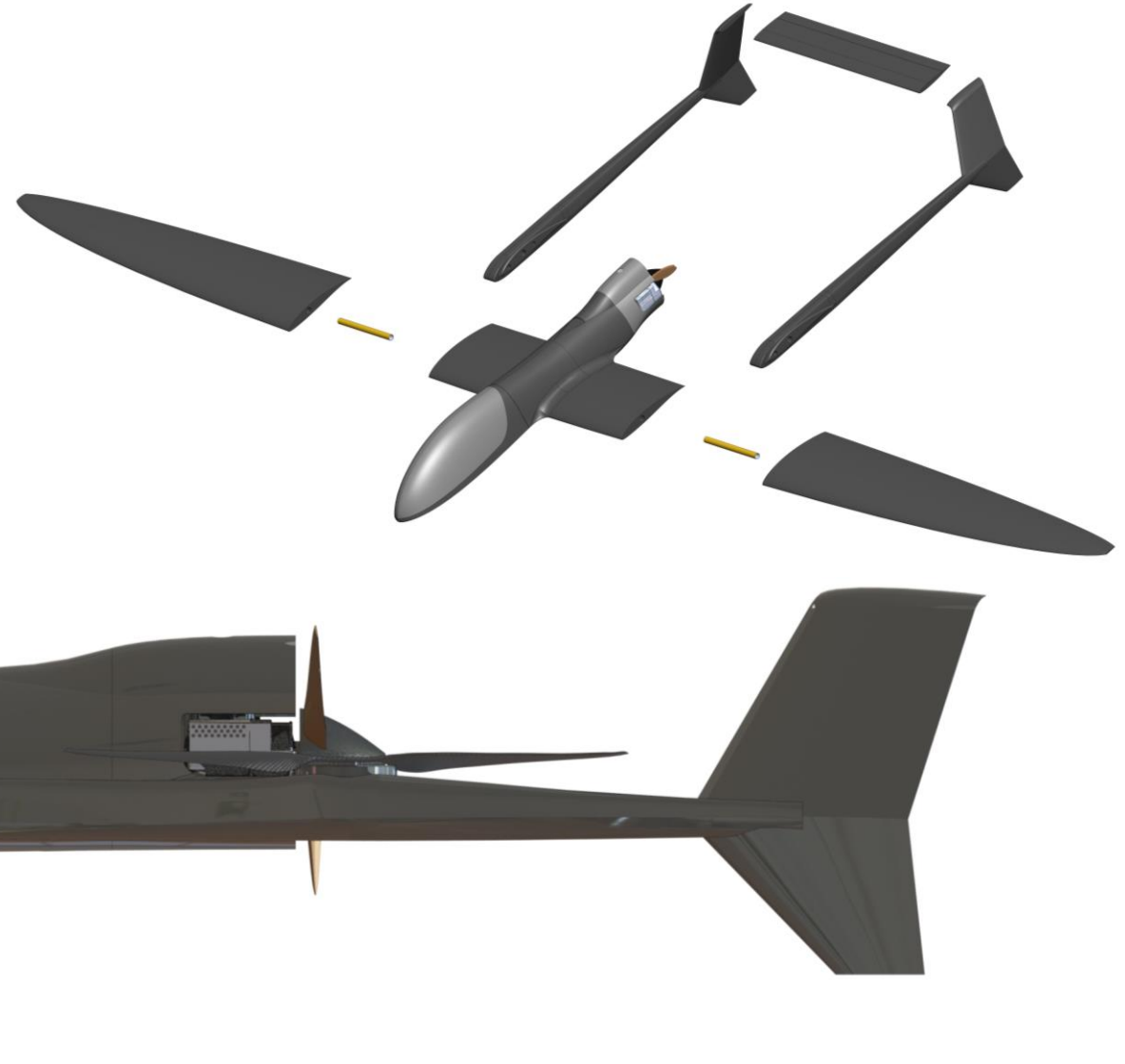
The benefit of launcher assisted take-off AV configuration is an autonomy of up to 24 hours, compared with VTOL configuration.



Interoperability as it emerges from the relevant military standards is the philosophy implemented in the heart of our systems.

Many subsystems are designed to be used in all UASs developed by Arkory in collaboration with Autonomous Flight Technology.

Moreover, success stories such as the JDAM USA kit permanently inspire us in our R&D efforts because only in this way can we build a family of systems for our clients.

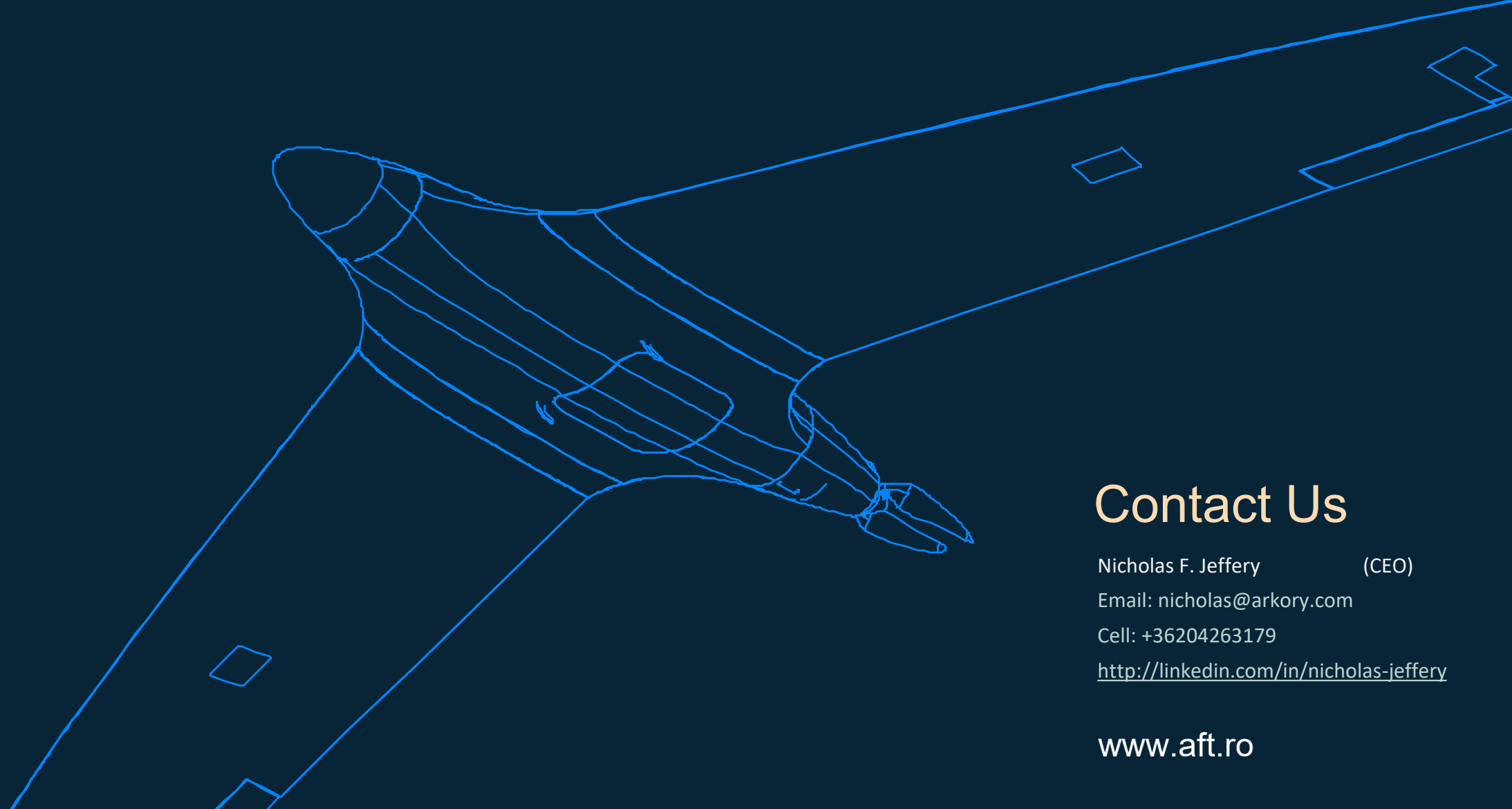


OUR team covers each stage of UAV Systems designing, developing and production

- Software and Hardware for UAV Command & Control systems, developed in-house;
- Composite materials technology and mechanical processing;
- Aerodynamic structures – R&D;
- Integration of different types of sensors;
- Experience in mature UAV systems development and production: HirusL and Quarrus1 – over 10 years of service;
- UAV specific STANAG's implementation – NATO exercises proven.







## Contact Us

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