
ALTUS LSA
INNOVATION DEFENCE TECHNOLOGY

About us

Company profile

ALTUS LSA is a pioneering and innovative Greek defense technology company which since 2011 provides turnkey solutions and **- state of the art -** services in the field of **Unmanned Systems.**

Our company manages its own **UAS fleet** and the company's experience and know-how extend to various areas such as **land and sea border surveillance**, intelligence gathering, **airborne ISR**, natural disaster management, GIS applications, control and protection of critical infrastructure, RGB / thermal / multispectral **mapping**, target drone applications training / shooting / evaluation of anti-aircraft systems etc.

The Company is steadily at the forefront of innovation either through its successful presence in major EU and National Research programs or by its internal R&D investment plan, exploring opportunities in Artificial Intelligence, 5G network utilization, and network-centric operations, aiming to retain state of the art products and systems

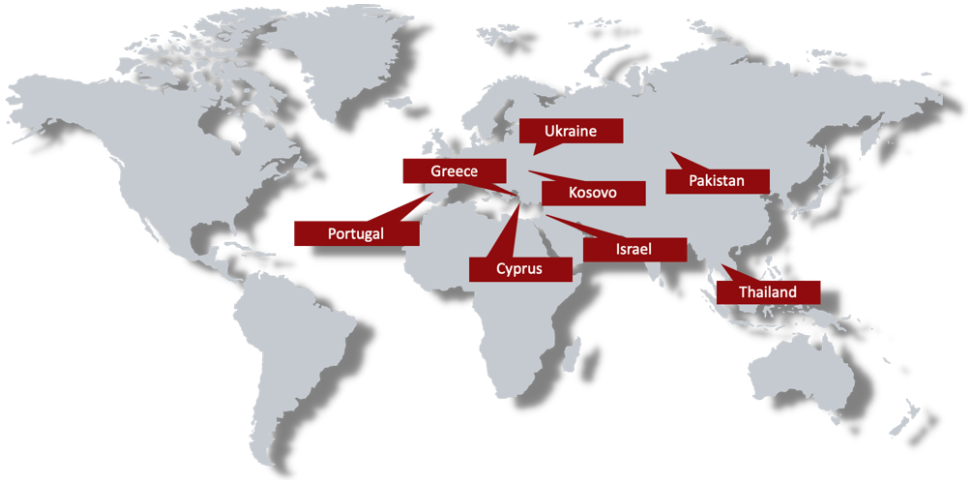
Operations & Strategy

Leader in the Greek Unmanned Aircraft Systems (UAS) sector with Worldwide Presence




Turnkey Solutions

- The Company offers system development and integration, mission planning and preparation, ending to the mission data deliverables, either these are raw data (images, sensor outputs, etc), or complete report analysis on end results (ISR reports, mapping, GIS, orthomosaic models, etc).
- Multispectral mapping services for precision agriculture applications.
- Inspection and RGB / thermal / multispectral mapping of Critical Infrastructure, powerplants, powerlines, wind-turbines and solar panel parks



Different platforms and payloads, are available within the Company's inventory and are ready to cover a variety of mission profiles and requirements.

Continuously advance its scope of work providing clients with tailor made products and/or solutions covering specialised needs and innovative technology applications

The Team is ready to provide worldwide RPAS services with own company's or 3rd party market systems.

Experienced Management team in the field of UAS Defence and Security programs with excellent knowledge of EU tendering process and defence industry ecosystem.

Company Milestones

Leader in the Greek Unmanned Aircraft Systems (UAS) sector

2011

ALTUS demonstrates UAS ISR capabilities to FRONTEX

2012

ALTUS receives its first Service Contract with the Hellenic Police for ISR border surveillance missions and debuts UAS operations in the Greek Market

2014

ALTUS develops FW tactical UAS OURANOS

2015

ALTUS receives its first international contract for ISR Services in Kosovo

OURANOS

2017

ALTUS establishes the HCAA accredited "ALTUS Drone Academy"

ALTUS receives Operations Authorisation under HCAA regulatory framework

2019

ALTUS receives Airworthiness Certification from HCAA for its OURANOS system

2020

ALTUS teams with "the Hybrid Project" and introduces to the market the EDOMON hybrid tactical UAS

ATLAS 204

2021

ATLAS 4 System completes trials to deliver medicines to remote locations in Greece

EDOMON

2022

ALTUS Receives EASA SORA Authorisation in Specific Category for cross border operations

ATLAS 4

ALTUS Develops ATLAS 4 & 204 multicopter Drone family

EDOMON UAS

Hybrid VTOL UAV

EDOMON is a Hybrid VTOL UAV, designed to deliver reliable and efficient **ISR Operations** for the Law enforcement, Civil Protection, and Defence Market. The **EDOMON system** is designed to operate with **minimum manpower and operational footprint** and is able to operate under harsh environmental & electromagnetic conditions. The System is able to deliver enhanced ISR capabilities with the use of **EO/IR, AIS & IMSI Catcher Payloads** for an extended period of time **(up to 8 hours)** and to an extended area **(up to 60 miles)**

Flight Autonomy

Eight hours (8 hrs)

Max Flight Speed

65 mph|120 km/h

Flight Range

60 miles |100 km

ATLAS 8/H

Multicopter HeavyLifter Drone System




ATLAS 8 is a heavy lifter multi-copter able to carry a **40 kg payload at a distance of 20 km**, ready to address the emerging requirements of the **small cargo (goods, weapons, search and rescue means, etc)** and last mile (commercial products) transport market. **Atlas 8/H** employs design features and operational experience from the smaller members of the ATLAS family of UAVs and provides the end user **with the best weight to mile to cost ratio** as well as the inherent ability to comply with the **EU 945 and 947** certifications directives in the specific category.

Payload Capacity

Forty kilos (40 kg)

Flight Endurance

25 minutes (max payload)

Flight Range

12 miles |20 km

ATLAS 4

Multicopter Drone System

The **ATLAS 4 UAV** is designed to deliver an array of services in the fields of surveillance, industrial monitoring, **emissions monitoring, and small cargo delivery applications**. The system is manufactured to the highest industry standards, with **state-of-the-art mission command systems**, encrypted RF links, redundant safety systems, and a **reconfigurable payload hub** which provides the flexibility to address the needs of multiple end-users in various domains.

Flight Autonomy

Sixty minutes (60 min)

Max Flight Speed

40 mph|65 km/h

Flight Range

12 miles |20 km

ATLAS 204

Multicopter Drone System

The **ATLAS 204 UAV**, being the smallest of the ATLAS family, is designed to deliver **highly reliable services** in the domains of **defense, security and industrial surveillance**, and agriculture mapping. The system is rapidly deployable and can also operate in **challenging environmental & electromagnetic conditions** with minimum manpower & operational footprint.

Flight Autonomy

Sixty minutes (60 min)

Max Flight Speed

40 mph|65 km/h

Flight Range

12 miles |20 km

M3NTOR

Software Suite

M3NTOR is an innovative network-centric, hierarchical, **C3 assets and mission management system** designed to exploit data originating from multiple assets in a 3D projected environment, **interconnecting heterogeneous sensor networks** (unmanned systems, cameras, radars, logistics monitoring, etc) which through the extensive use of **advanced AI and Machine Learning algorithms** will provide users in various places in the hierarchy not only with an **advanced decision-making tool** but also an operational planning assistant based on up to date and cross-referenced information from all the sources available to the system.

Assets

Assets Management Capabilities

Operation

Operations Management Capabilities

Artificial Intelligence Algorithms

M3NTOR

- ✓ **Battle** management
- ✓ Fast **coordination** of units
- ✓ **Resources** monitoring
- ✓ **Logistics** monitoring

- ✓ **ISR** gathering - storing - querying - relaying

- ✓ **UxV fleet** management
- ✓ Temporal Geospatial **Database**

- ✓ Distributed/Centralised control of **operations**
- ✓ **Swarming** Coordination

Decision Making through Machine Learning

Advanced Capabilities

Payloads

Integration of multiple EO / IR payloads

Functions:
Target georeferencing and automatic monitoring
AI Features:
- Detection of changes
- Fire detection
- Identification (person, vehicle, etc.)
- Abnormal behavior

Mobile Centers

Mobile Command Centers

Tailor made Mobile command Center solutions
Integrated with our **UAV line-up** for transportation - charging – maintenance & **field operations**

Drone Hangar

Drone-in-a-box Solution

Completely autonomous system for running operations with minimum footprint
Features:
- Automatic charging base & weather station.
- No human interaction to charge the batteries
- Built-in meteorological station for pre-flight meteorological data
- Waterproof

PRINCE Project

Preparedness Response for CBRNE Incidents – EU PROGRAM

Topic: ISFP-2017-AG-PROTECT
Proposal number: 815362
Type of action: ISFP-AG (ISF-Police Action Grant)




PROGRAM DESCRIPTION

Chemical, Biological, Radiological, Nuclear, and high-yield Explosive (CBRNE) events have the potential to destabilize governments, create conditions that exacerbate violence, or promote terrorism. These events can quickly overwhelm the infrastructure and capability of the responders. PRINCE aims to support first aid responders and law enforcement/security authorities by providing them with an evidence base for strategic level decisions related to **prevention, detection, Respiratory Protection, Decontamination and response to CBRN event**. PRINCE aims to produce a roadmap based on EU & International Actions plans and recommendations by creating a PRINCE catalogue of training curricula in line with the **INTERNATIONAL CBRN TRAINING CURRICULUM and EU**, based on best practices and international proven CBRNE exercises. PRINCE aims to produce CBRNE SOPs and plans for two incidents (Chemical and Radiological) in two major exercises (Greece, Portugal). The exercises will be performed with representatives from all responders to (1) share information on CBRN threat and risks; (2) exchange best practices; (3) perform joint trainings and exercises. PRINCE will provide recommendations to CBRNE **equipment, systems, and training content and to develop ICT tools (E-training platform, CBRN Emergency system).** PRINCE aims to enhance protection of public spaces, community and infrastructure by sharing project outcomes with wider audience through online information material, presentations to public events and media. Short term beneficiaries are CBRN responders and authorities from GR, PT, CY, FL and DE, Medium term beneficiaries: EU CBRN authorities, stakeholders, Long term beneficiaries: Citizens, public authorities, CBRNE technology partners, business, Government advisors, R&D and industry**. PRINCE increases sustainability through cross-border / cross-sectoral collaboration** and by exchanging best practices and knowledge on joint exercises and training courses between five member states.


ALTUS LSA
INNOVATION DEFENCE TECHNOLOGY