



THREOD

SYSTEMS

BECAUSE INTELLIGENCE IS NOT BLIND



Read more about the Kestrel Titan - the best
multi-sensor UAV in the world.

READ MORE

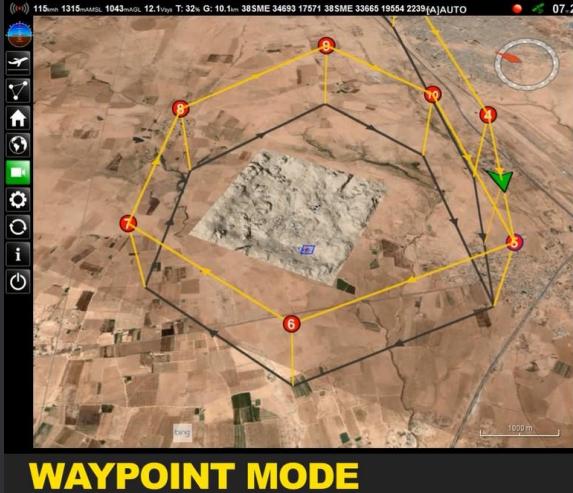
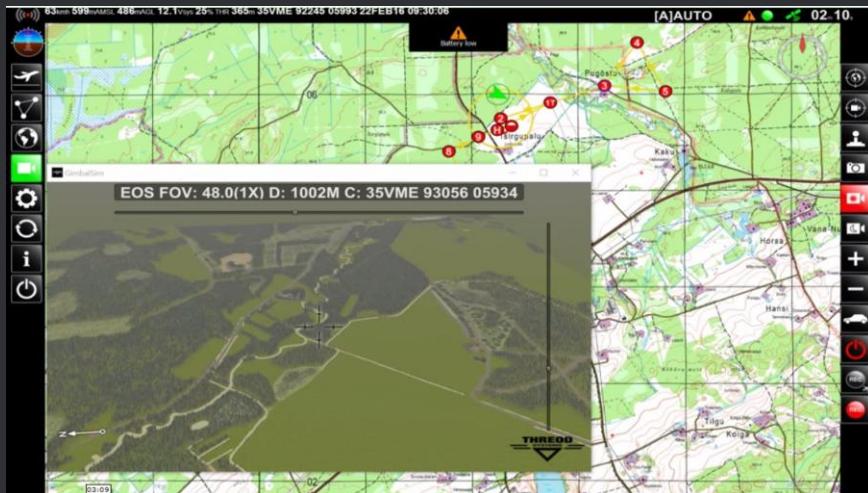
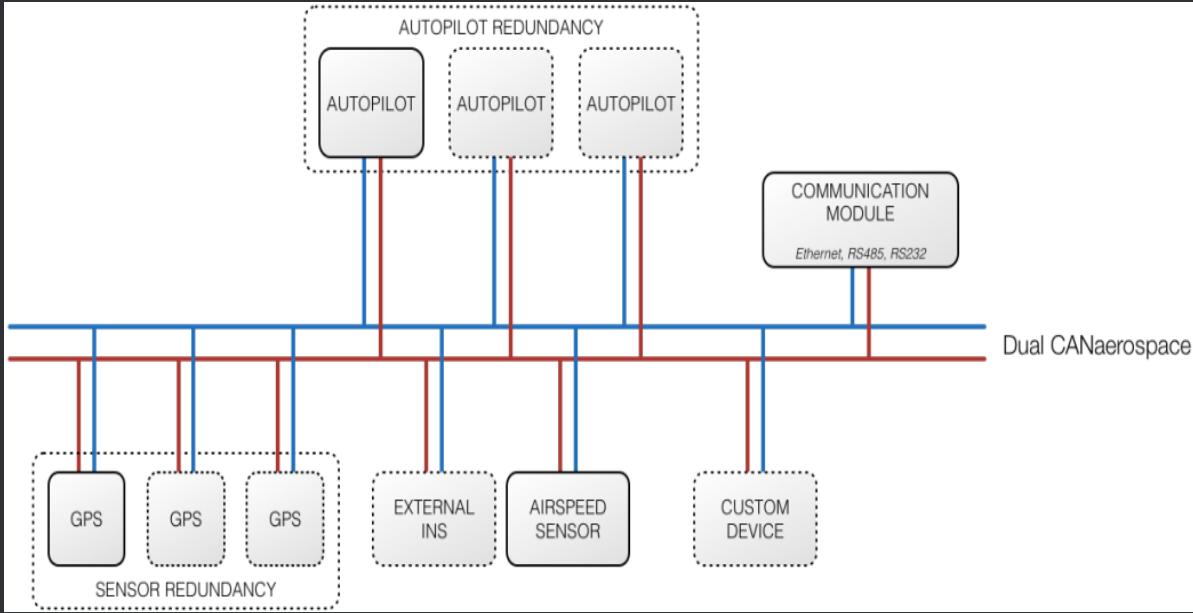
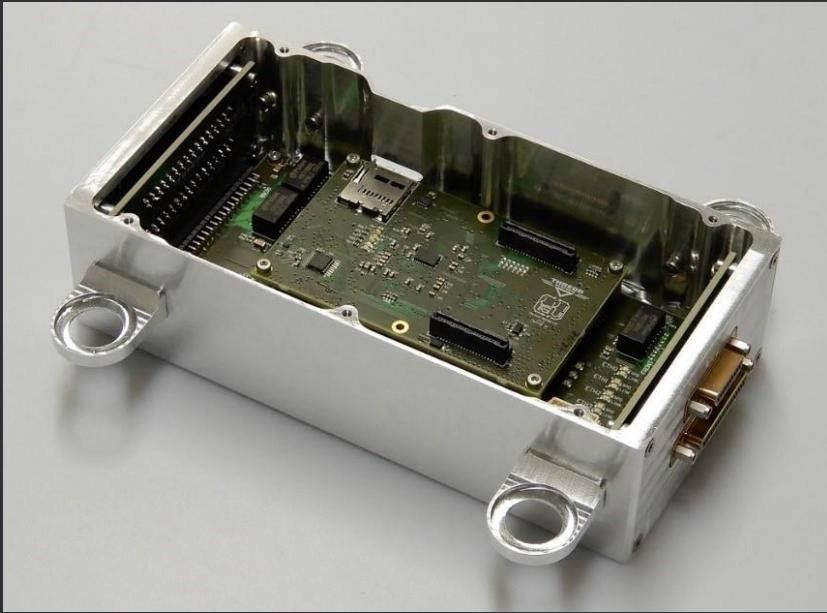
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We provide outstanding unmanned aircraft systems
and sub-systems for intelligence collection and surveillance tasks.

Air vehicle design, development and production



Autopilot design, development and production



WAYPOINT MODE

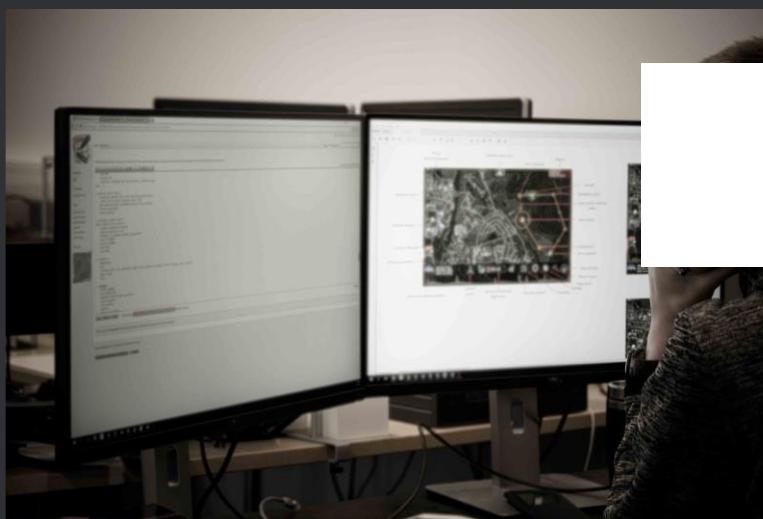


PAYOUT SIMULATION

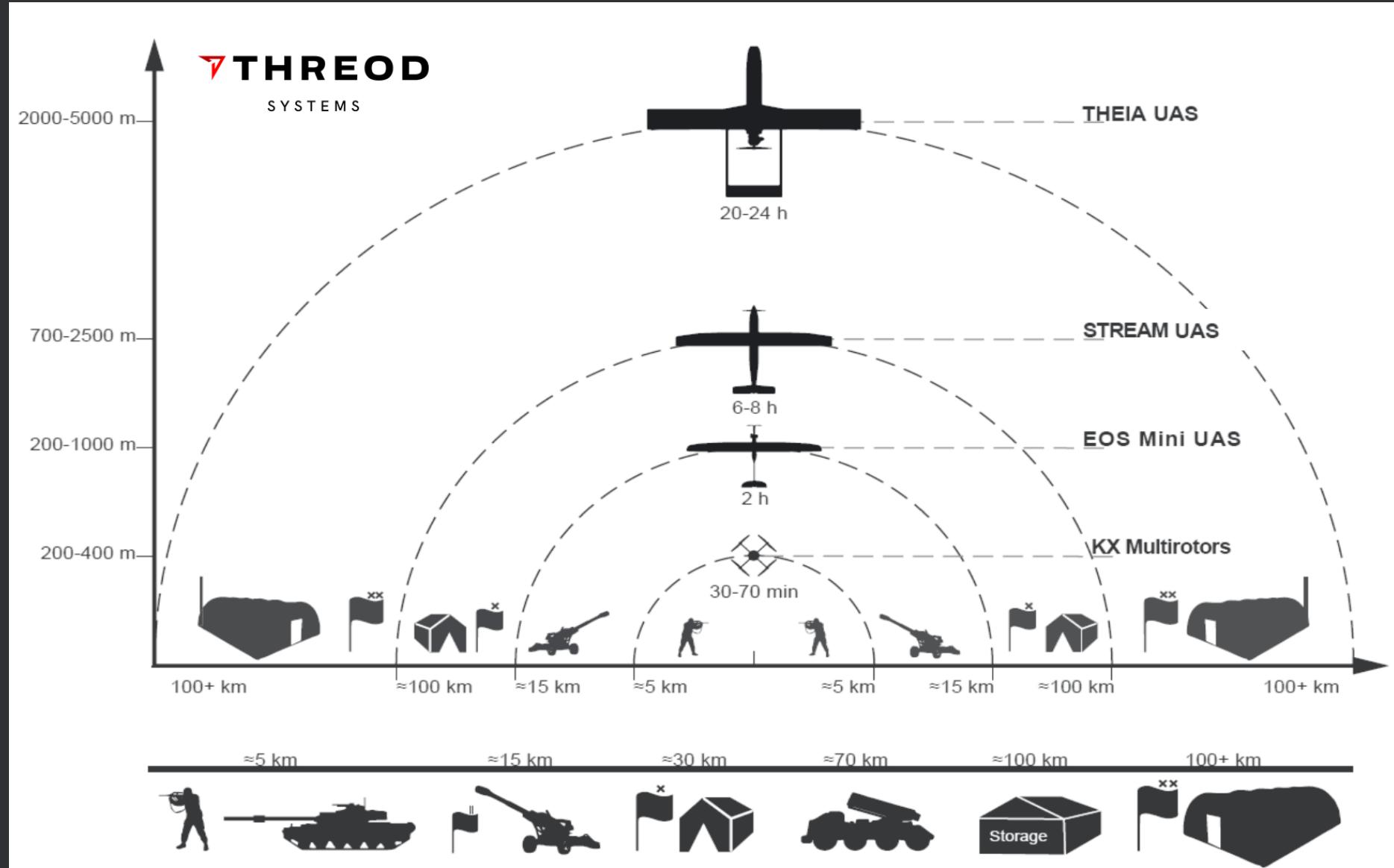
Sensor design, development and production



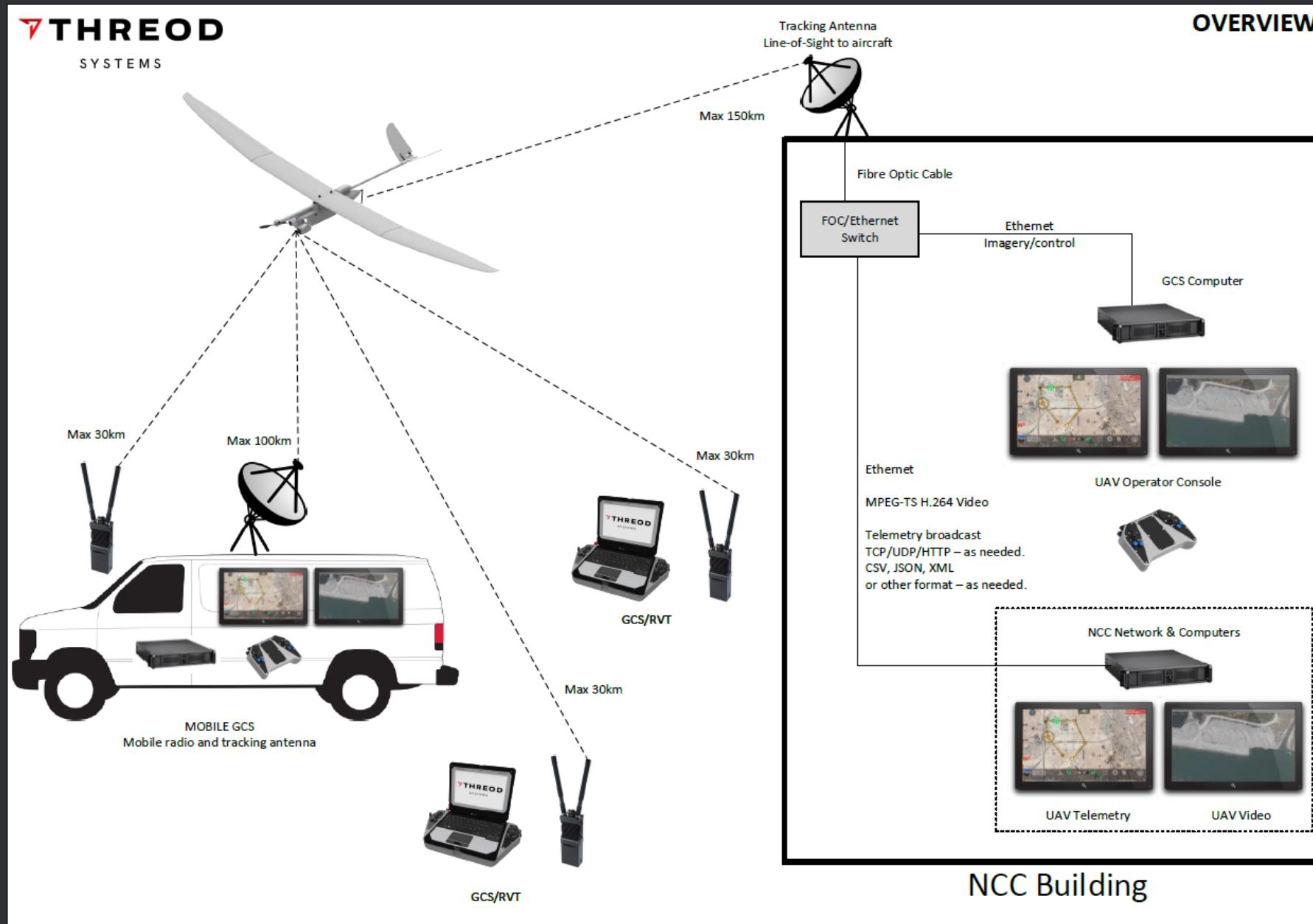
Software design, development



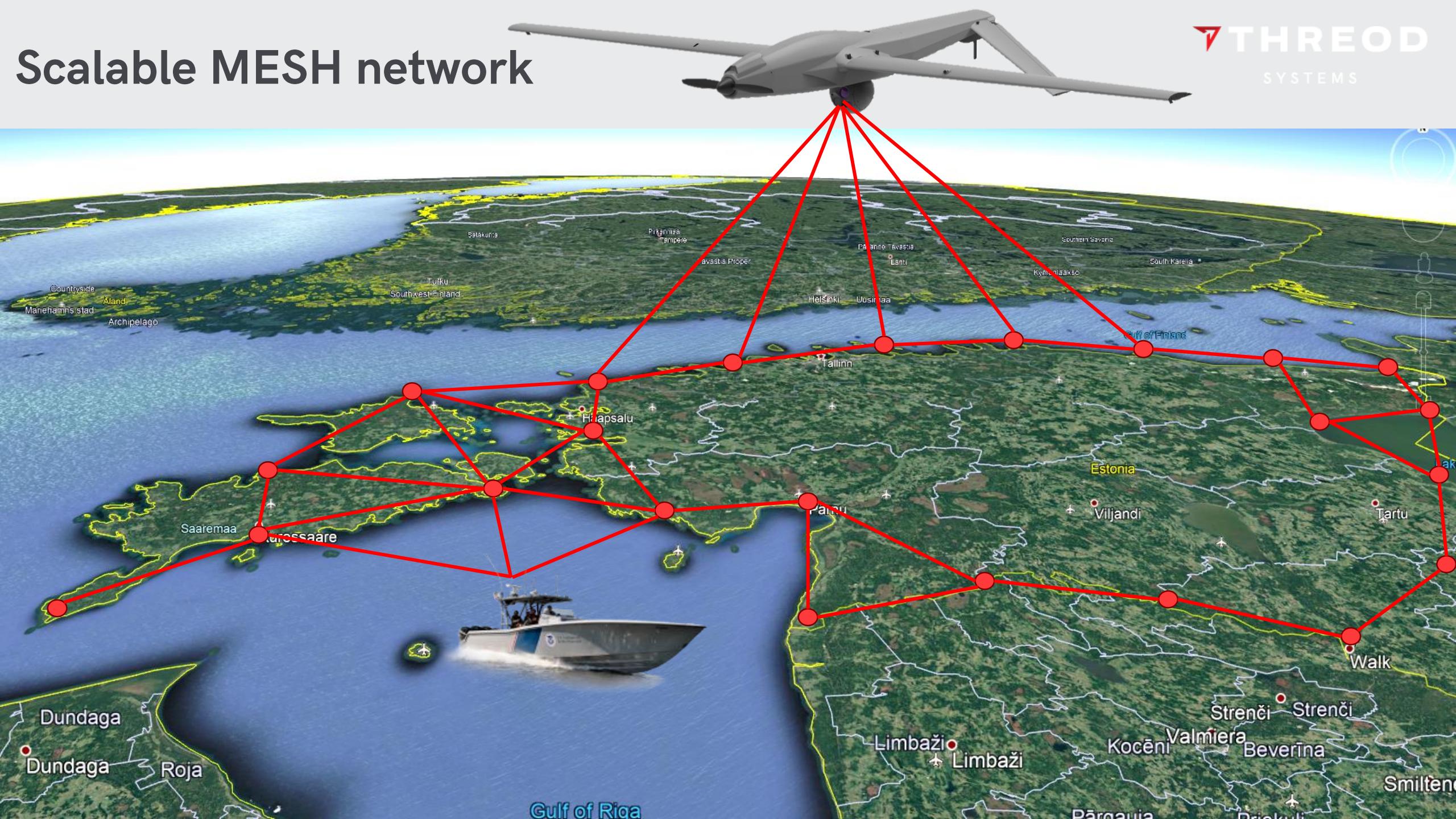
A fully integrated and complete ISR solution from a single provider

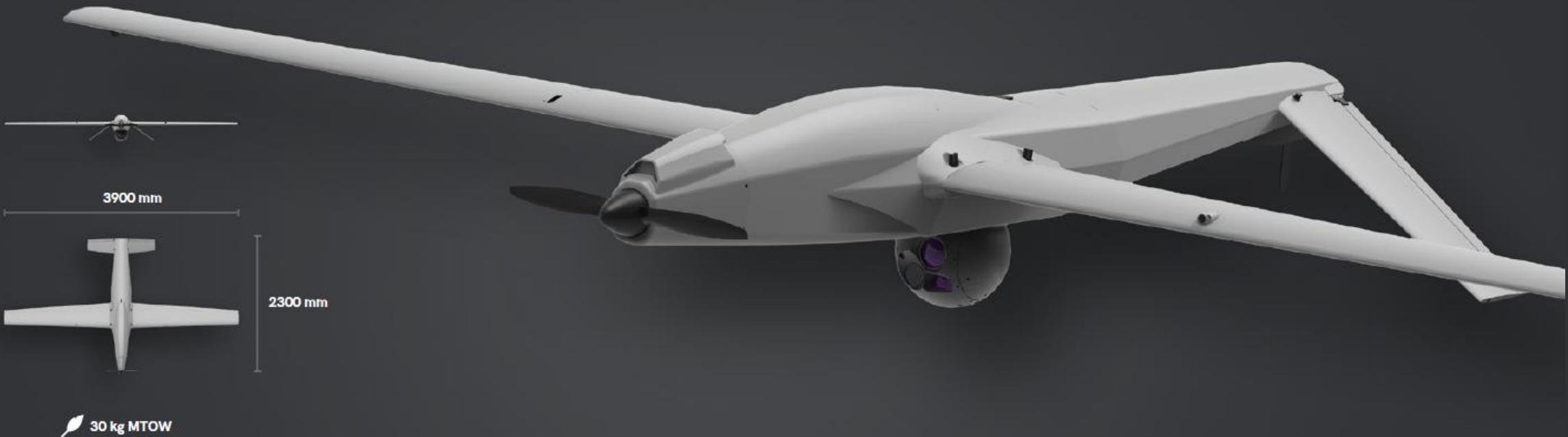


High interoperability and full mission support



Scalable MESH network





STREAM C

PERFORMANCE

Over 6 hours
Operational up to 3000m AGL
80-130 km/h
Catapult launch, parachute recovery
Lift capacity 6kg

MULTISENSOR PACKAGE

Cooled MWIR gimbal
EO sensor: 30x zoom / 2x digital
MWIR sensor: 720p / 18-275 mm lens
Laser rangefinder: up to 8000 m

Aerial mapping payload
50MP aerial mapping sensor

COMMUNICATIONS

Dual-frequency
Over 100 km LOS
AES-256
MESH network
Voice, video, data

ISR

720p HD live streaming
Reporting tool
KLV metadata
Selectable recording







EOS MINI-UAS

PERFORMANCE

Over 2 hours
Operational up to 1500m AGL
50...100km/h

SENSOR

Dual EO/IR sensor
EO: 30x zoom / 2x digital
IR: 640x512, 35mm lens

AERIAL MAPPING PAYLOAD

Plug & Play payload
Less than 2 cm/px
24 MP

COMMUNICATIONS

Over 20km LOS
AES-256 encryption
MESH network available
Voice, video, data

ISR

720p HD live streaming
Reporting tool
KLV metadata
Selectable recording





KX4-LE TITAN

PERFORMANCE

Up to 45 min
Optimal altitude up to 400m AGL
Optimal speed 8m/s
Lift capacity 6 kg

SENSOR

Dual EO/IR sensor
EO: 30x zoom / 2x digital
IR: 640x512, 35mm lens

AERIAL MAPPING PAYLOAD

Plug & Play payload
Less than 2 cm/px
24 MP

COMMUNICATIONS

Up to 5km LOS
AES-256 encryption

ISR

720p HD live streaming
Reporting tool
KLV metadata
Selectable recording

KX4-LE TITAN MULTI-PAYLOAD CONCEPT

KX4-LE TITAN lift capacity **6 kg**. Fully customizable payload options.



DOME EO/IR GIMBAL



SHARK EO/IR GIMBAL

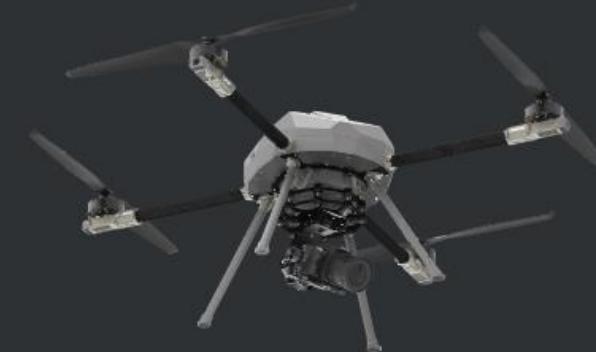


PHOTO GIMBAL



FLASHBANG RELEASE



LIFE VEST DEPLOYMENT

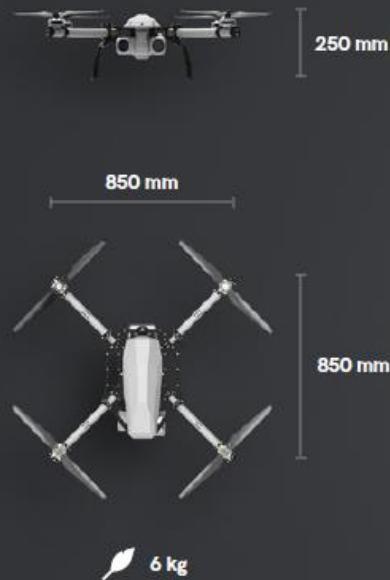


LiDAR PAYLOAD

Titan Multi Payload System

 **THREOD**
SYSTEMS





KX4 INTERCEPTOR

PERFORMANCE

Over 30 minutes
Optimal altitude up to 400m AGL
Optimal speed 8m/s

SENSOR

Dual EO/IR sensor
EO: 30x zoom / 2x digital
IR: 640x512, 35mm lens

AERIAL MAPPING PAYLOAD

Plug & Play payload
Less than 2 cm/px
24 MP

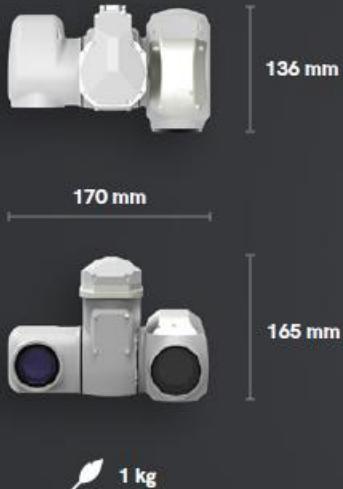
COMMUNICATIONS

Up to 5km LOS
AES256 encryption

ISR

720p HD live streaming
Reporting tool
KLV metadata
Selectable recording





SHARK GIMBAL

ADVANTAGES

- Gyro and image stabilisation
- HD video output
- KLV metadata according to STANAG 4609
- Selectable on-board recording

FEATURES

- Moving target indication
- Target tracking and locking
- Georeferenced imagery
- 360° continuous pan / +10° to -100° tilt

SENSORS

- | | | |
|-----------------------|------------------|--------------------------|
| EO sensor | IR sensor | Optional |
| 30x zoom / 2x digital | 35mm lens | Laser rangefinder |
| 720p HD video | 8x digital zoom | IR pointer / illuminator |



DOME GIMBAL

ADVANTAGES

- Gyro and image stabilisation
- HD video output
- KLV metadata according to STANAG 4609
- Selectable on-board recording

FEATURES

- Moving target indication
- Target tracking and locking
- Georeferenced imagery
- 360° continuous pan and tilt

SENSORS

- | | | |
|-----------------------|---------------------|--------------------------|
| EO sensor | 2x IR sensor | Optional |
| 30x zoom / 2x digital | WFOV - 25° × 20° | Laser rangefinder |
| 720p HD video | NFOV - 10.4° × 8.3° | IR pointer / illuminator |
| | 8x digital zoom | |

[SCENE] FOV 3.5 (20x) 2017-06-10 14:58:26Z
UAV: 35VLF 56043 98463 545mAMSL
TRG: 35VLF 59567 96289 0mAMSL
SLANT: 3857m



[STAB] FOV 18.0 (1.0x) 2017-06-10 13:25:20Z

UAV: 35VLF 57166 96996 545mAMSL
TRG: 35VLF 59197 99455 0mAMSL
SLANT: 3232m



[SCENE] FOV 3.7 (19x) 2017-06-23 06:32:43Z
UAV: 35VMF 35563 76567 753mAMSL
TRG: 35VMF 37130 75050 85mAMSL
SLANT: 2277m



E 1 FOV 18.0 (1.0x) 2018-01-16 08:35:01Z
48MYT 08122 85698 133mAMSL
48MXT 96519 75289 -88mAMSL
: 15633m





MWIR GIMBAL

ADVANTAGES

- Gyro and image stabilisation
- HD video output
- KLV metadata according to STANAG 4609
- Selectable on-board recording

FEATURES

- Moving target indication
- Target tracking / geo-locking
- 360° continuous pan and tilt

SENSORS

- | | | | |
|------------------|----------------------|-------------------|------------|
| EO sensor | Cooled MWIR sensor | Laser rangefinder | IR pointer |
| 30x optical zoom | 720p H.264 format | Up to 8000m | |
| 720p HD video | WFOV - 29.8° x 24.1° | | |
| | NFOV - 2° x 1.6° | | |

[SCENE 1] FOV: 5.5 (4.8x) 2018-05-11 02:09:50Z
UAV: 35VME 70903 05216 991mAMSL
TRG: 35VME 71400 06190 96mAMSL
SLANT: 1410m
DIST: ----- m



[SCENE 1] FOV: 3.5 (7.5x) 2018-05-11 02:09:27Z
UAV: 35VME 711546 05244 991mAMSL
TRG: 35VME 71313 06168 90mAMSL
SLANT: 1250m
DIST: ----- m





HAND-HELD GROUND CONTROL STATION

CONTROL

- Joystick panel
- Autonomous flight control
- Guided flight control
- User interface control
- Emergency landing button

FEATURES

- Rugged design
- Carry handle
- Touchscreen
- Keyboard

COMMUNICATIONS

- Embedded data link
- Data link up to 5km

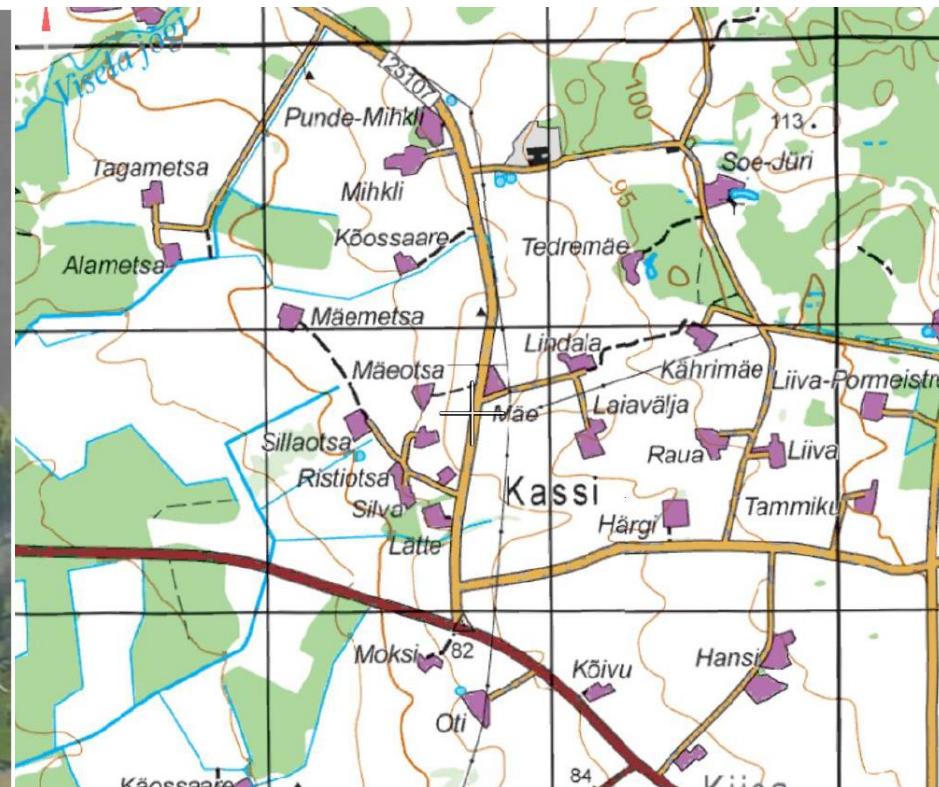
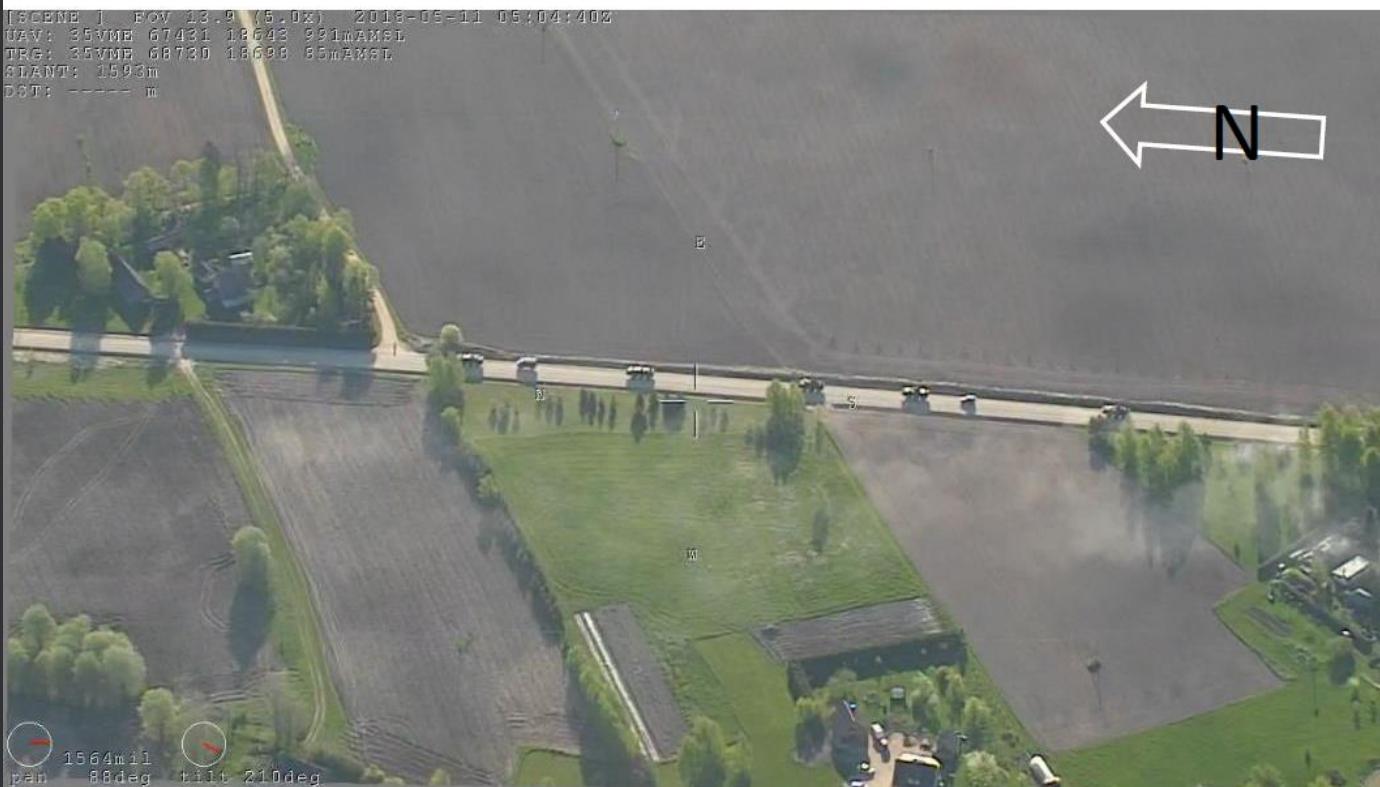
POWER SOURCE

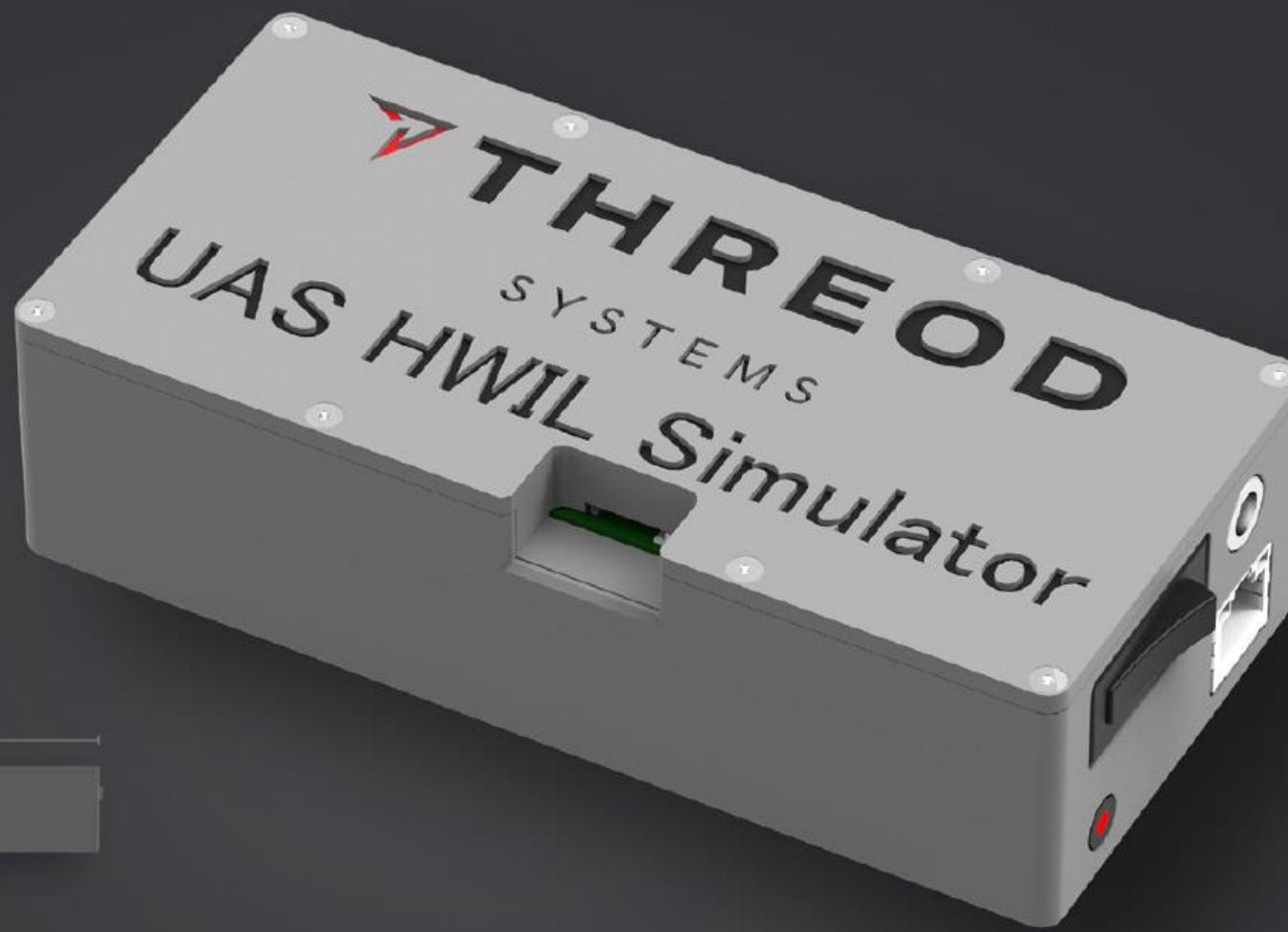
- DC 14-24V
- AC 100-240V



Built in GCS reporting tool

CAPTURED	2018-05-11 05:04:40 UTC	REPORT CREATED	2018-05-11 05:05:26 UTC
TARGET	35VME 68732 18696	AIRCRAFT	NIL
DESCRIPTION	Who: Unknown What: Convoy: 8x vehicle – 2x APC without antenna. Moving N When: 0805 Where: 35VME 68732 18696		





UAS HWIL SIMULATOR

ADVANTAGES

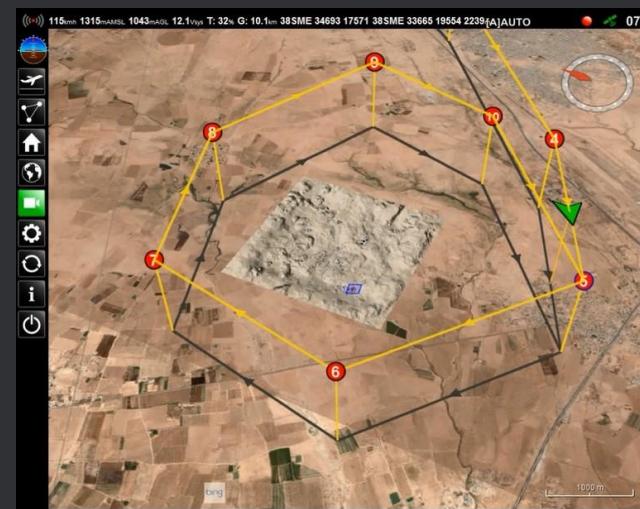
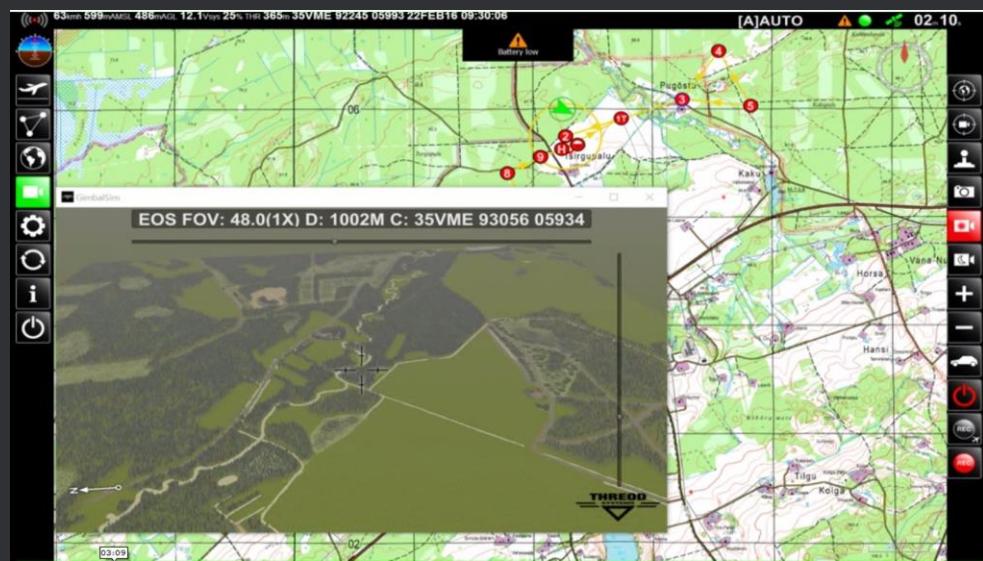
- Design a UAS concept and technical solution.
- Reduce the UAS life-cycle cost.
- Develop UAS operation procedures.
- Plan and prepare UAS missions.

- Exercise interoperability.
- Rehearse sensitive and high-risk missions in a safe, controlled environment.
- Test UAVs in different environments and weather conditions.
- Train and certify UAS operators.

CAPABILITY

- Hardware-in-the-Loop Simulation.
- EO/IR payload simulation.
- Real-world or pre-defined meteorological conditions.
- 3D modelled target area and scenarios (Unity or VBS3 integration).

Simulation - integrated part of the NATO cyber defense exercises



WAYPOINT MODE



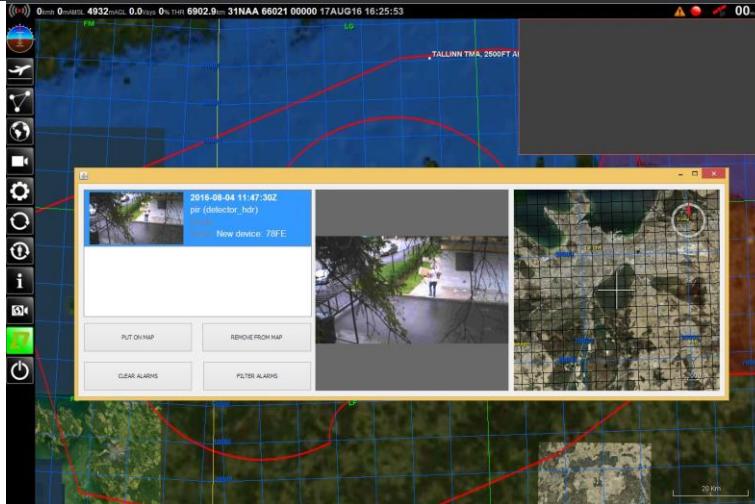
PAYOUT SIMULATION

SmartShield system for border and infrastructure protection

Detect intruder



Report to UAV team



React



Identify



Smartdec
sensor

UAV user interface

Launch the UAV
if not airborne

Powerful EO/IR sensor

Tethered heavy-lift VTOL UAV integration with Milrem THeMIS UGV

Tweets **Tweets & replies** **Media**

 **Army Warfighting Experiment 18** @AWE18_AWL · Mar 13

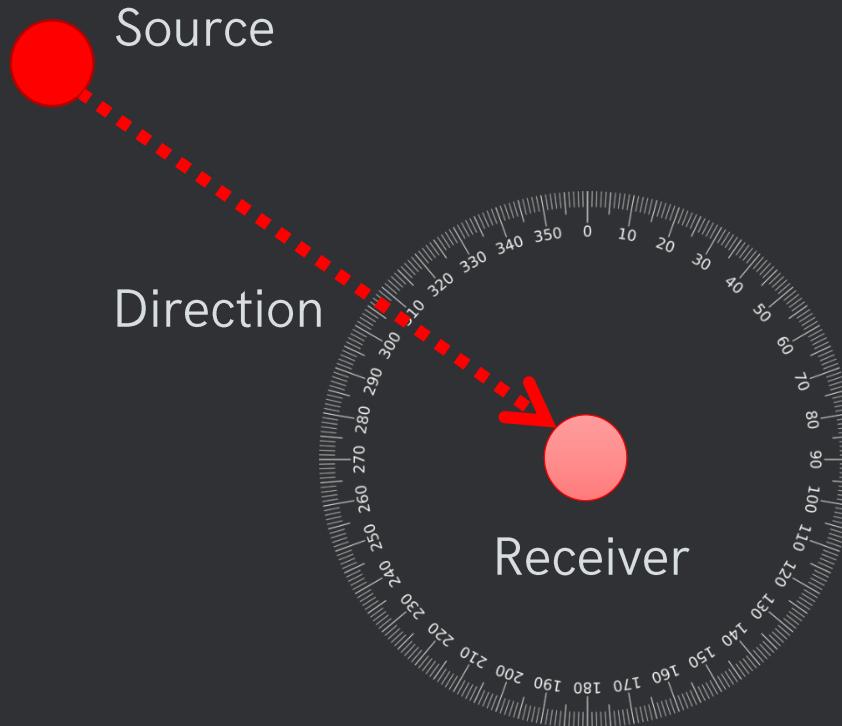
The British Army's Armoured Trials and Development Unit is conducting mobility trials with state of the art unmanned ground vehicles (UGV). Milrem are offering an autonomous UGV with a roof box carrying tactical Unmanned Air Systems.
@ESTdefence #MilRem @BritishArmy @QinetiQ



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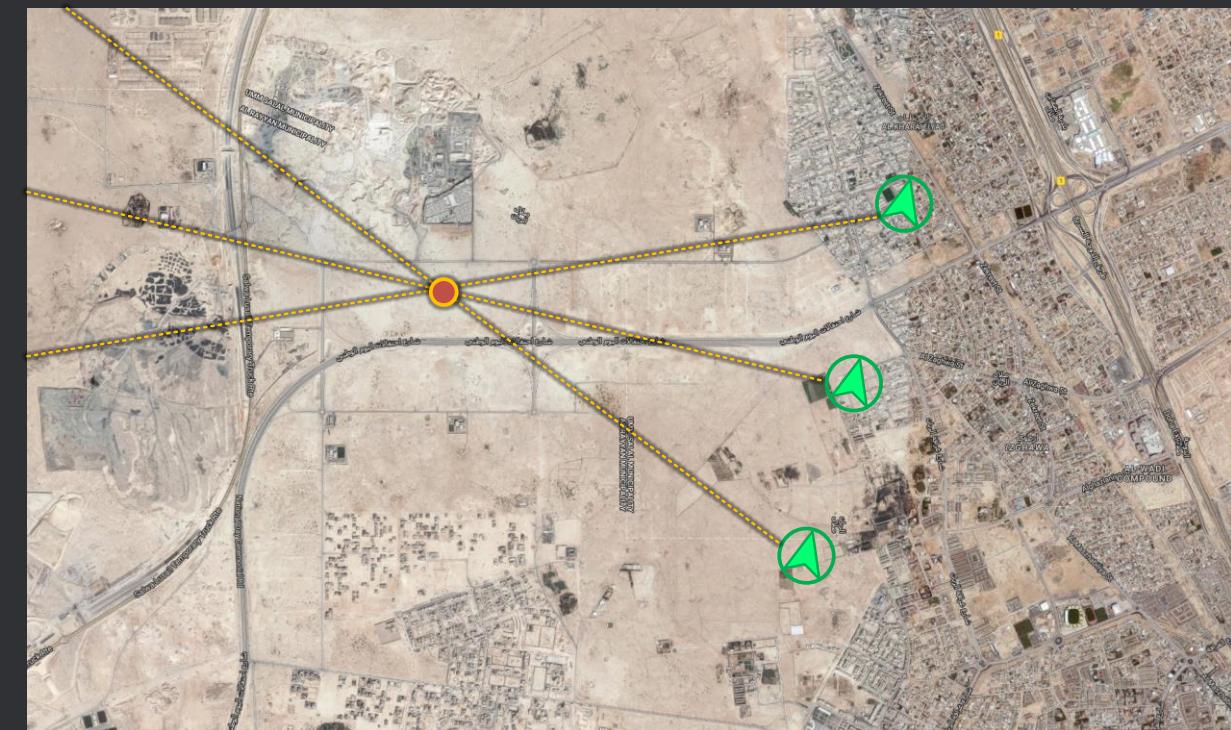


SIGINT Direction Finder Payload for UAV

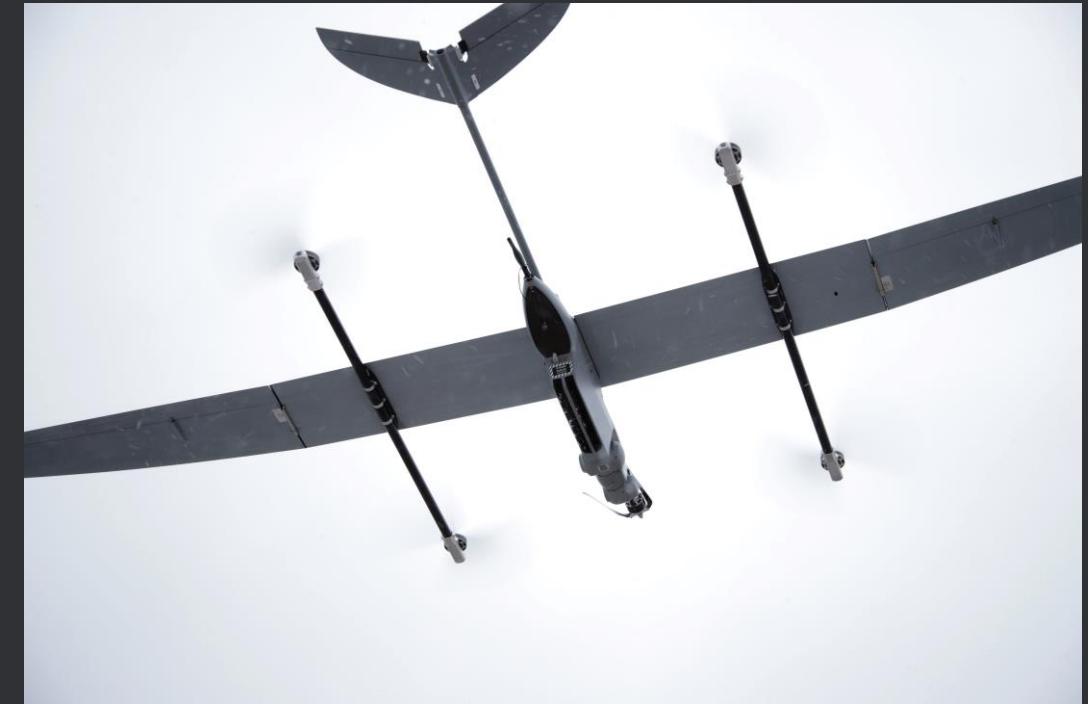
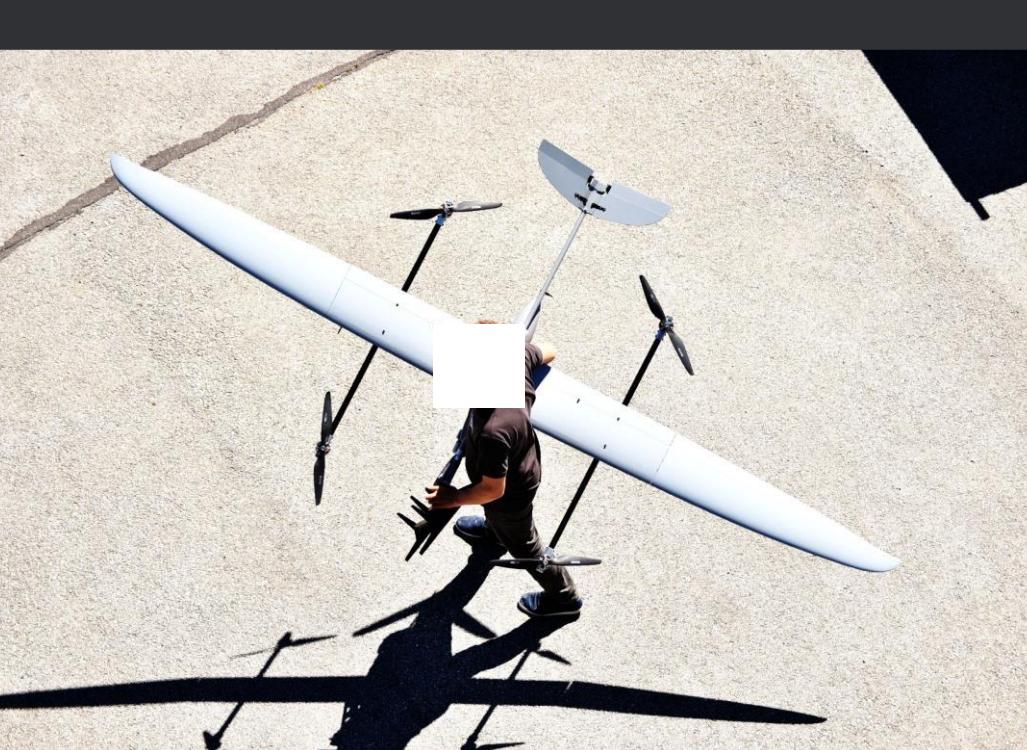


3in1 payload:

1. Detect signal source
2. Confirm/deny using optical sensor
3. Run aerial mapping on target to build 3D model



VTOL EOS Mini-UAV



Available from the IV quarter 2018



FIXED-WING UAS MULTIROTORS SENSORS SUBSYSTEMS



BY CHOOSING THREOD SYSTEMS, THE CUSTOMER
ACQUIRES A VERTICALLY INTEGRATED SOLUTION
WITH ONGOING SUPPORT FROM A SINGLE PROVIDER

**BECAUSE INTELLIGENCE
IS NOT BLIND**