

SWITCH V2

ALL TERRAIN DOMINATOR

Futureproof Performance. Unmatched Reliability.

Enhanced multi-role capability and a
25% overall boost in performance
over the consistency and reliability of Switch V1



25% increase
Up to 150 min
flight time



New Payloads

- Military Mapping
- Dual
- Oblique



33% increase
Over 20 km
operational range

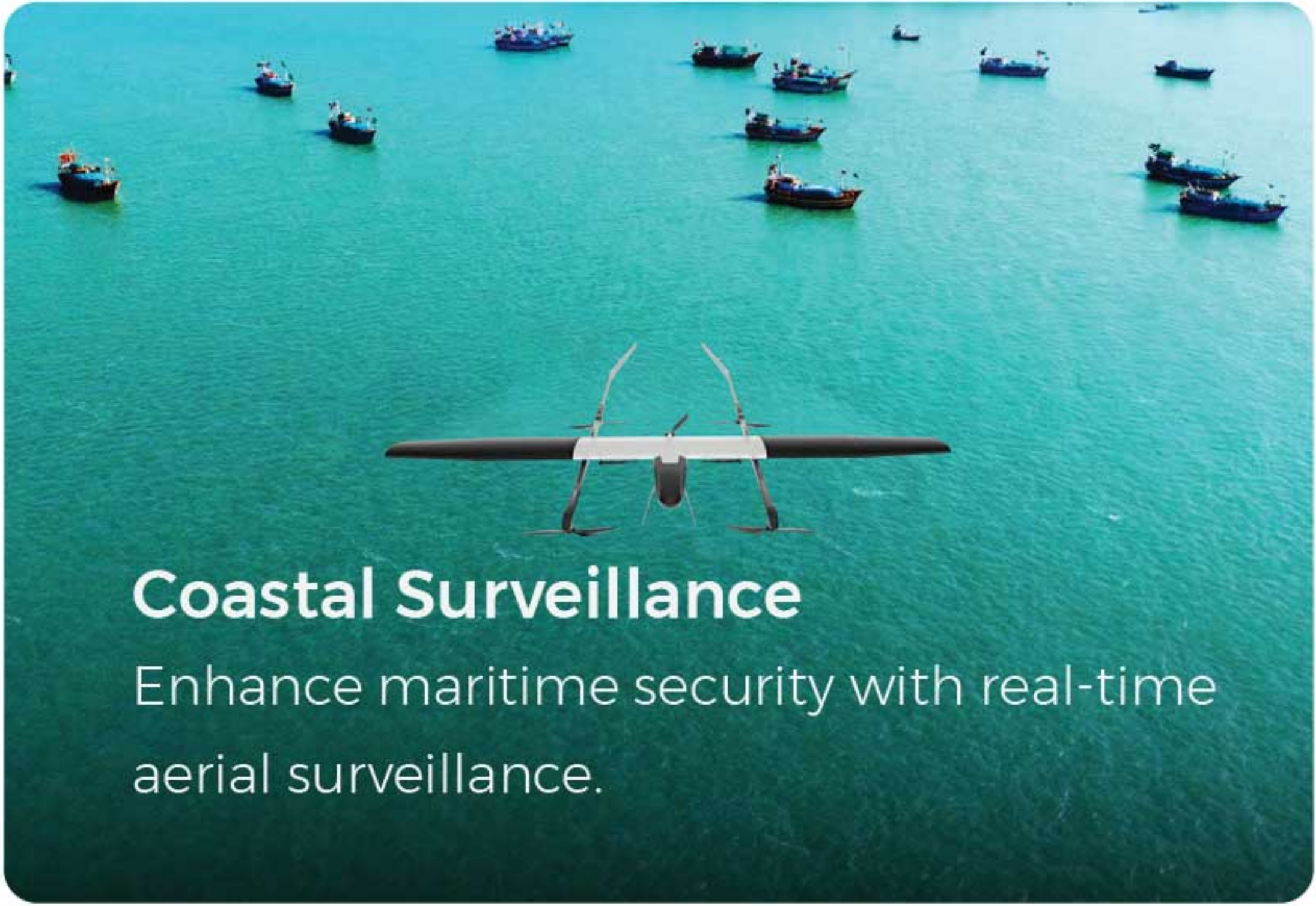
Applications and Capabilities

Mission-Ready Solutions for Every Operational Need



Border Security

Improve ISR for effective border surveillance and response.



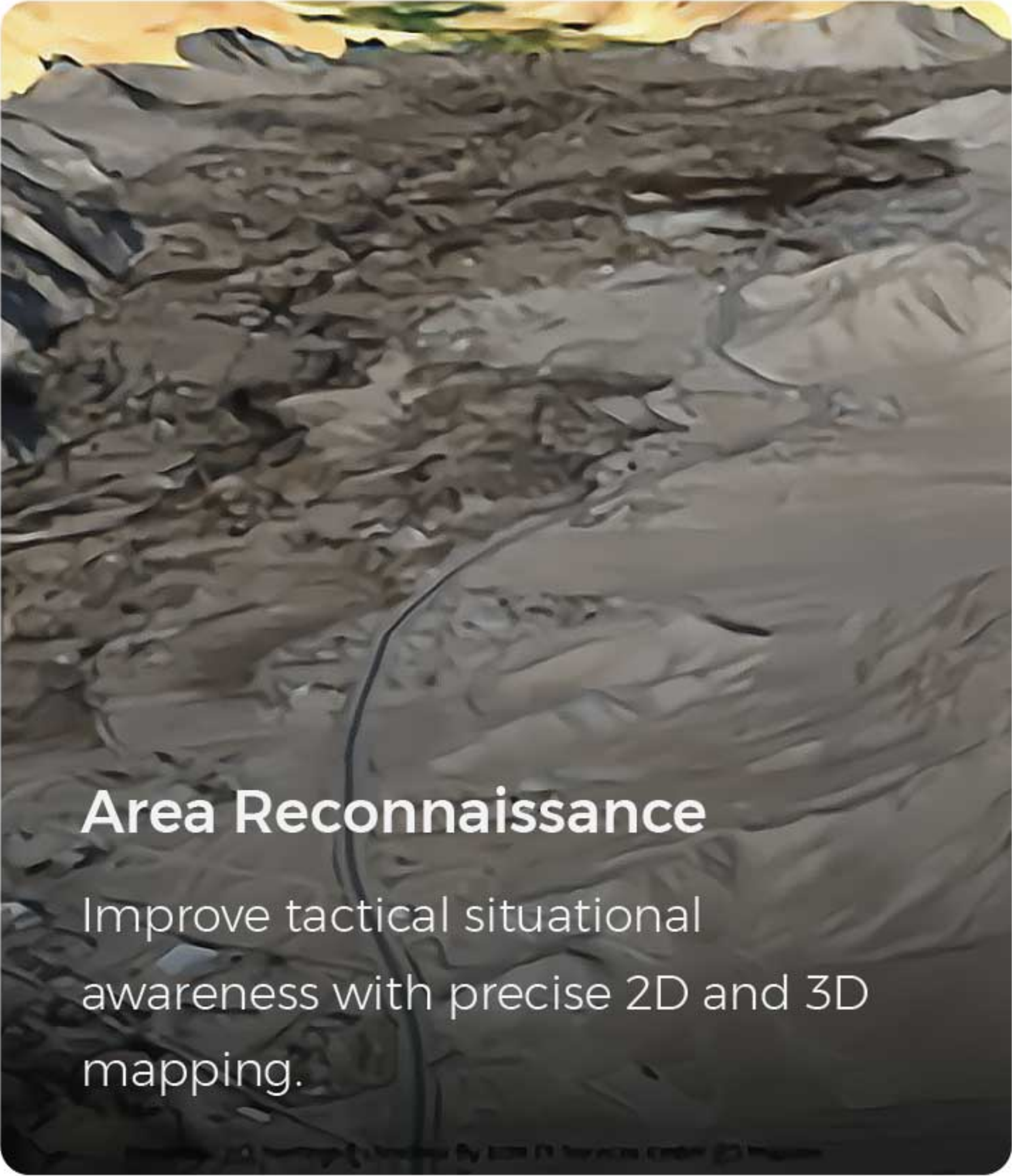
Coastal Surveillance

Enhance maritime security with real-time aerial surveillance.



Disaster Response

Quickly assess damage, locate survivor and gather hard-to-access data for successful relief operations.



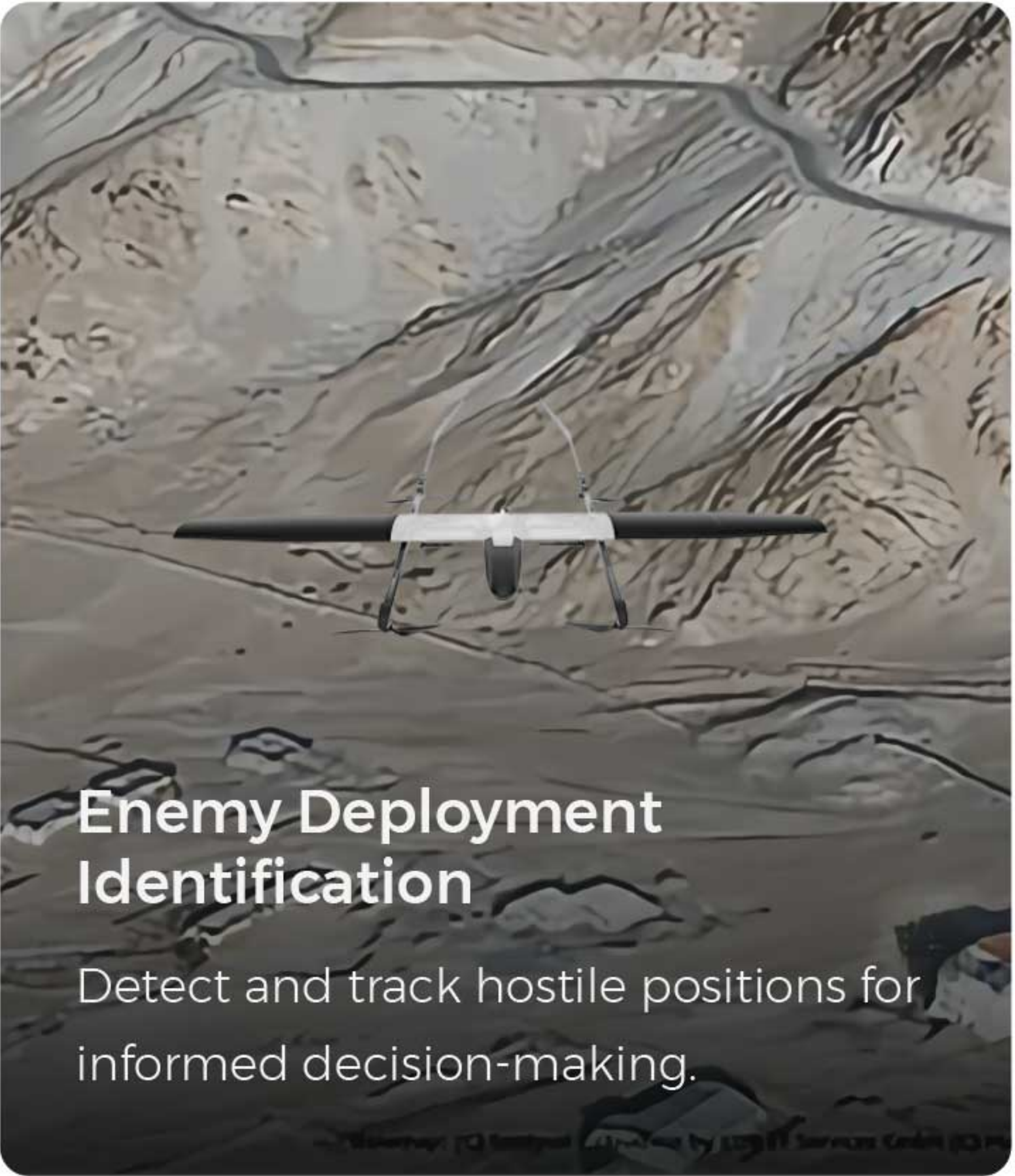
Area Reconnaissance

Improve tactical situational awareness with precise 2D and 3D mapping.



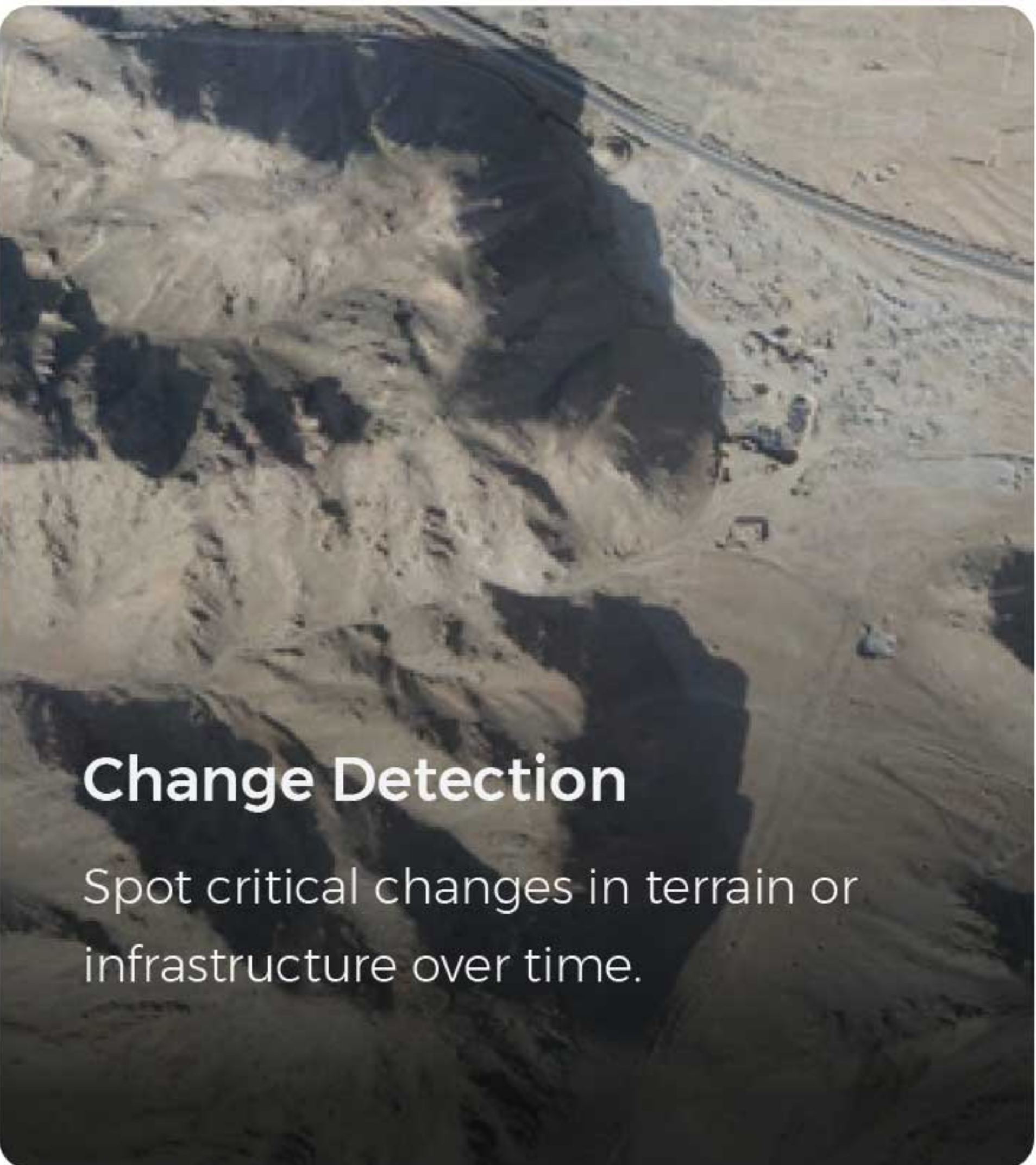
Route Planning

Identify secure and efficient movement paths for troops and logistics.



Enemy Deployment Identification

Detect and track hostile positions for informed decision-making.



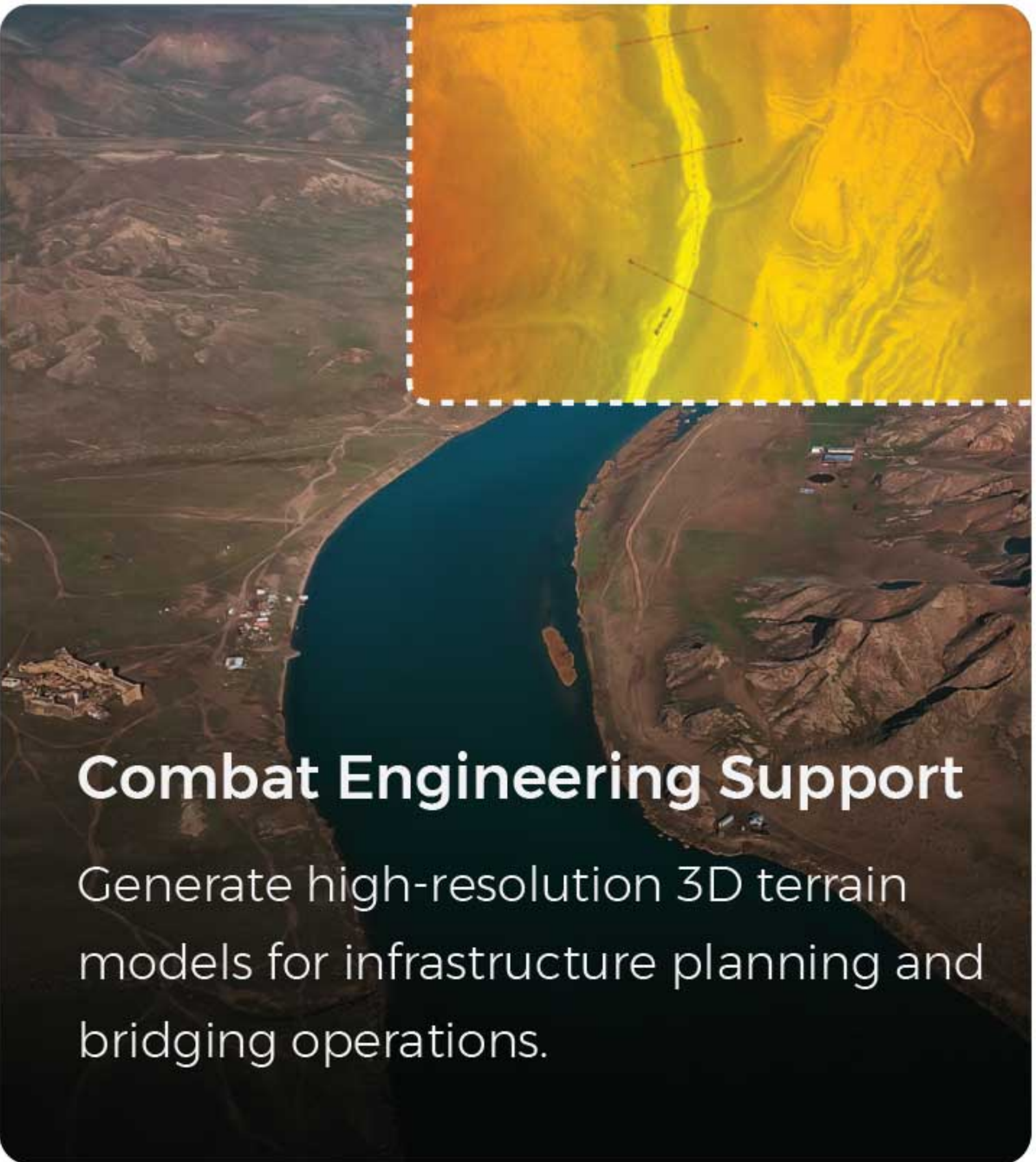
Change Detection

Spot critical changes in terrain or infrastructure over time.



Threat Assessment

Analyze potential threats and maintain tactical superiority.

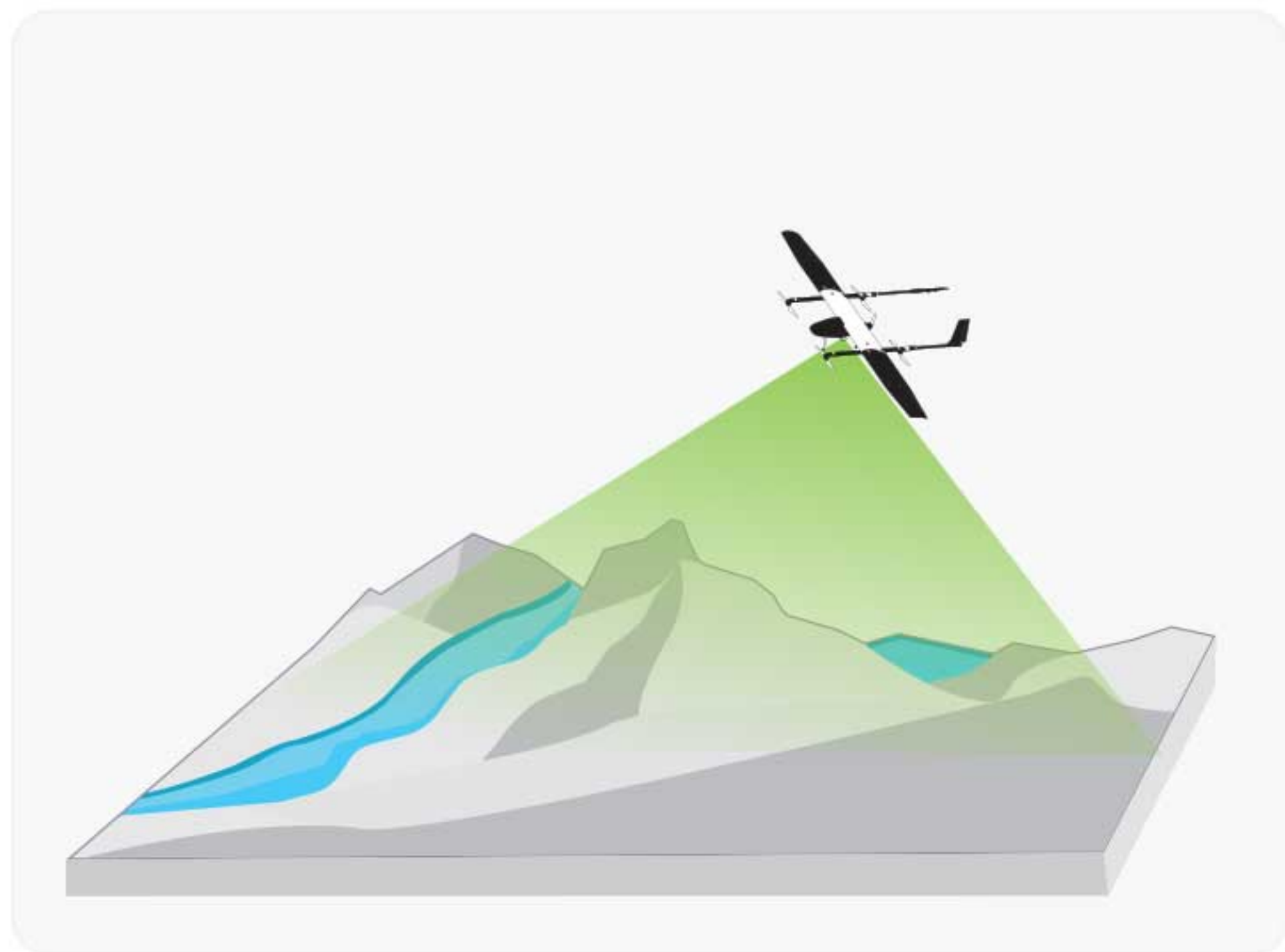


Combat Engineering Support

Generate high-resolution 3D terrain models for infrastructure planning and bridging operations.

Features

Cutting-Edge Features for Tactical Superiority



Wide Area Surveillance

AI-enabled Geo-Spatial Intelligence for detecting military assets like bunkers, tanks, bridges, and posts.



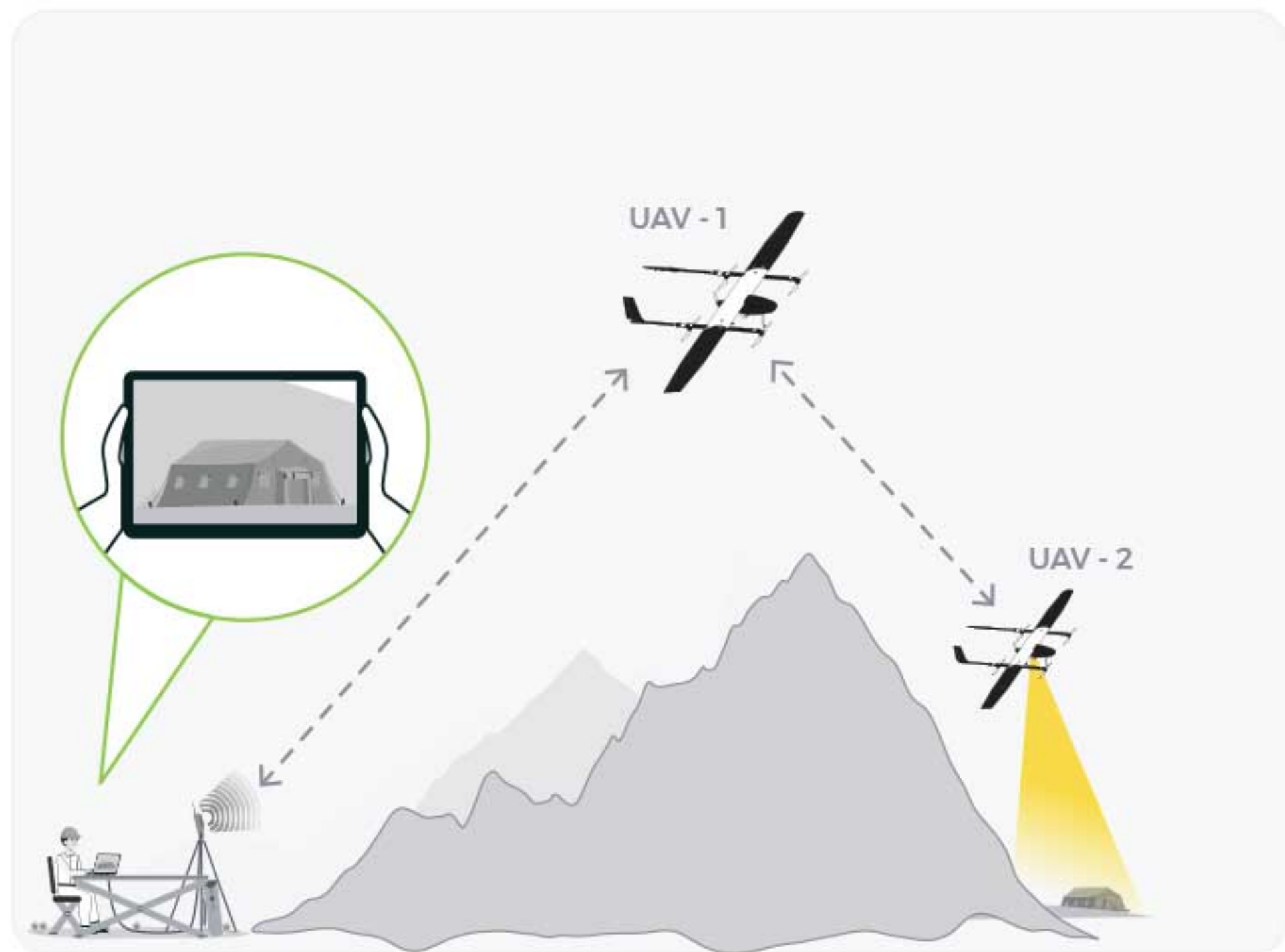
Military Mapping & Change Detection

3D mapping on the field and real-time change detection powered by a 61 MP high-resolution mapping payload.



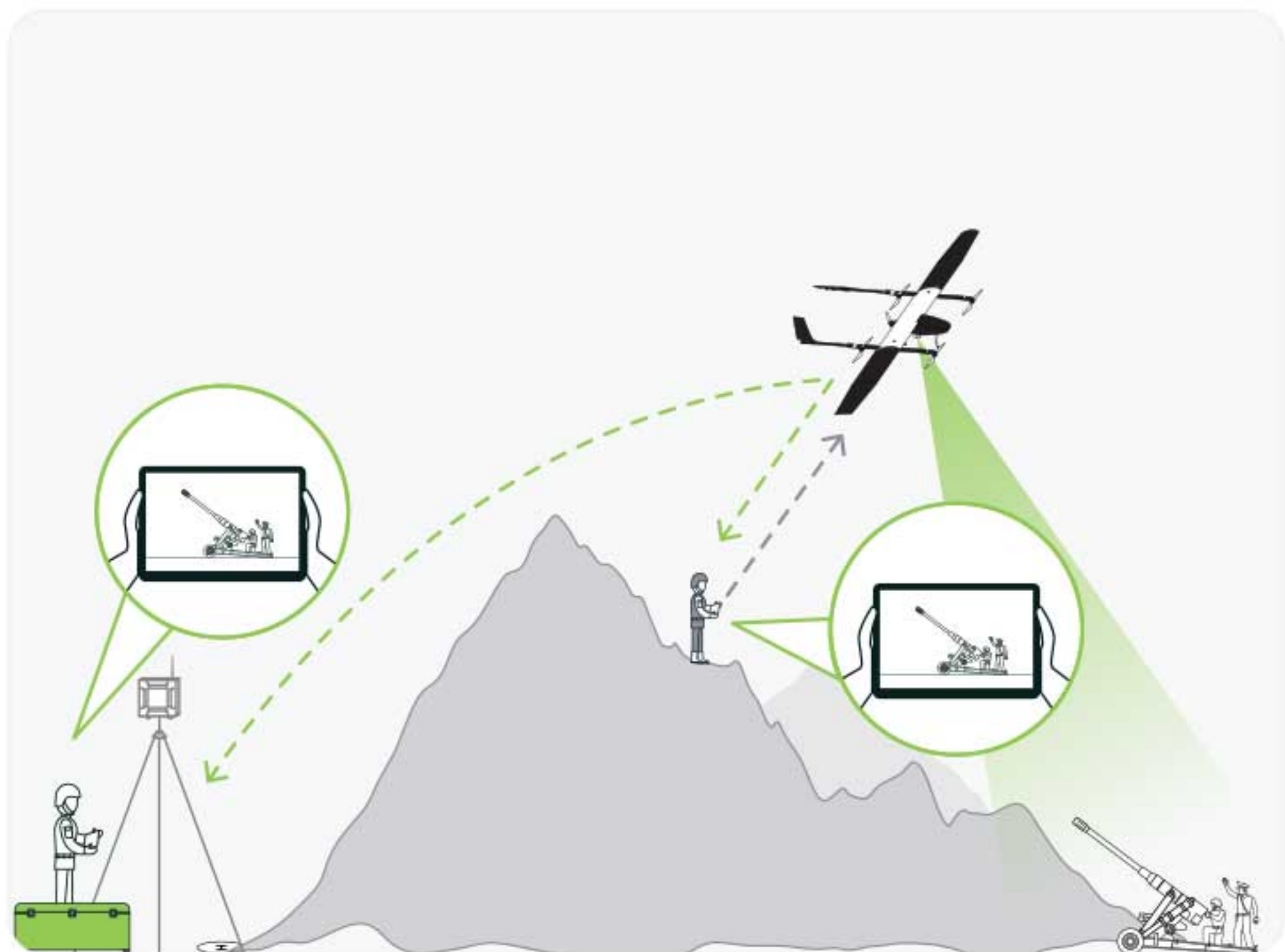
DOAF (Direction of Own Artillery Fire)

Provides real-time intelligence and guidance to enhance artillery strike accuracy.



ADR (Airborne Data Relay)

Acts as an intermediary to extend communication and data transmission range, ensuring seamless connectivity in remote areas.



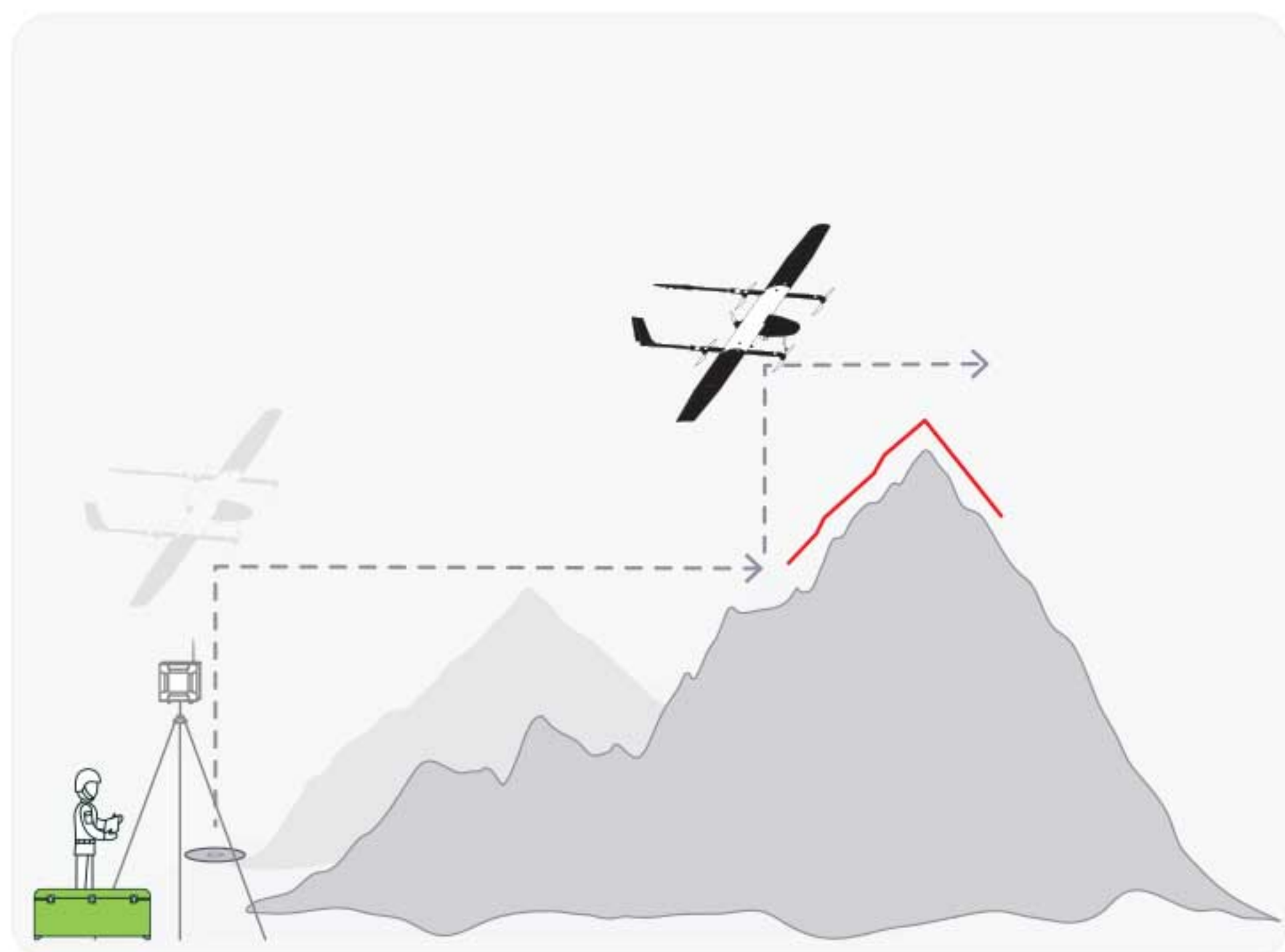
RVT (Remote Video Terminal)

Enables secondary users, even those close to the border, to remotely access, view, and control payloads for enhanced situational awareness.



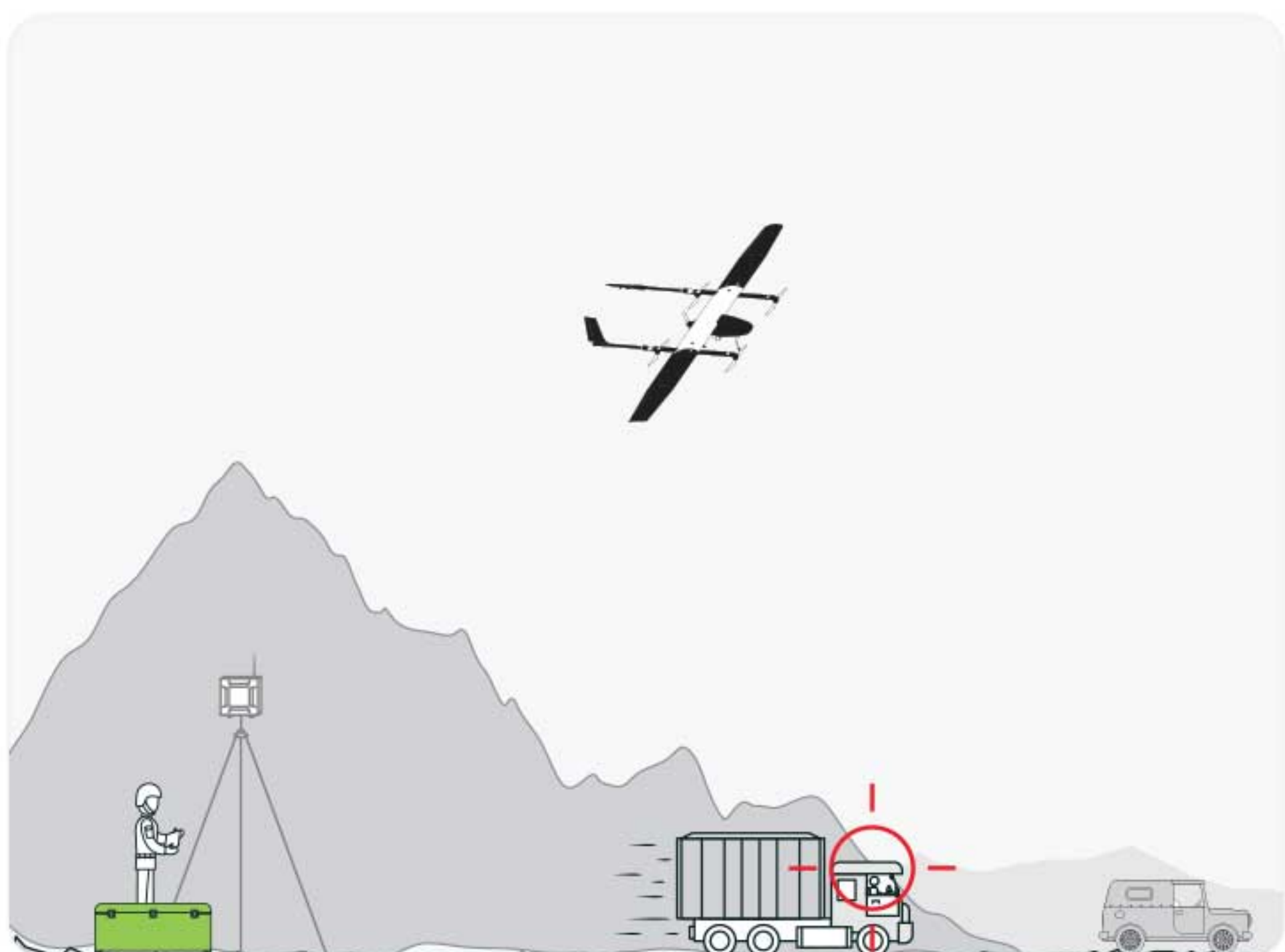
AI-on-the-Edge Payloads

Real-time, low-latency decision-making to recognize objects, track moving targets, and perform critical tasks on the edge.



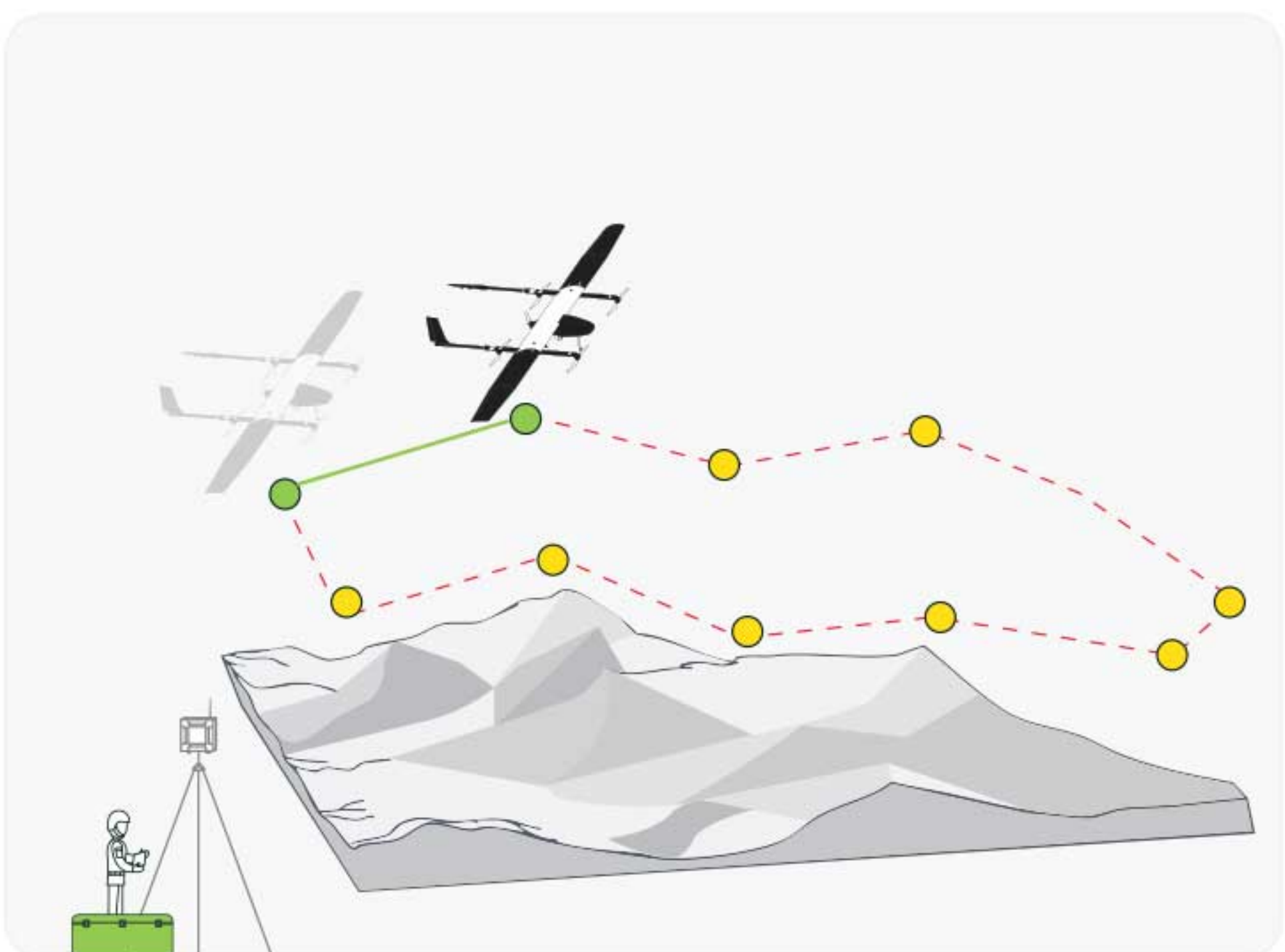
Terrain Avoidance

Ensure safe UAV operations with advanced terrain avoidance systems, preventing collisions in difficult areas.



MTI (Moving Target Indication)

Detects and highlights hard-to-spot moving targets, offering a tactical edge during missions.



Waypoint-based Autonomous Flight

Autonomous navigation along a set flight path, ensuring efficient movement between designated points with minimal human intervention.

Specifications

Parameter	Value
Endurance	150 min up to 1000m AMSL (Above Mean Sea Level)
Range (LoS)	> 20 km
Weight	< 10 kg
Ingress Protection	IP 54 Rated for Dust and Water Resistance
Operating Altitude	4921 ft (1500m) AGL (Above Ground Level)
Cruise Speed	Up to 14m/sec
Size	1.8m x 2.6m x 0.4m
Max Launch Altitude	16400 ft (5000m) AMSL (Above Mean Sea Level)
Functional Temperature Range	-30° C to +55° C
Wind Resistance	45 kmph (24.3 knots)
Landing Accuracy	10m x 10m
Aural Signature	< 40 dB at 300m AGL
Operating crew	Max 2
Deployment time	< 15 min

Compatible Payloads



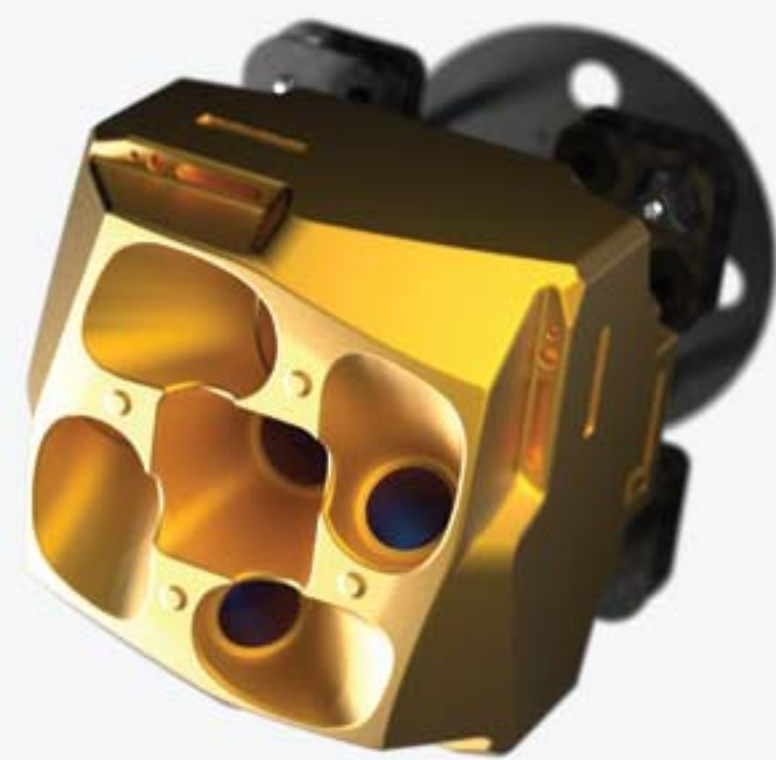
Daylight Payload
30x Full HD



Thermal Payload
640 x 512 pixel



Dual Payload*
30x Full HD +
640 x 512 pixel



Oblique Payload*
Resolution > 120 MP
Sensor Type > APS-C



Mapping Payload
61 MP High-Resolution sensor.
AES 256 bit encrypted data storage on payload.
Interchangeable lens options to vary GSD/Area Coverage as per mission.
AI-enabled image anomaly detection (Cloud, Fog, Blur, Pink Streaks, low light condition).
AI-enabled automated detection of vehicle, bridge, bunker, buildings*

*Coming soon



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