

IXO PROGRAM

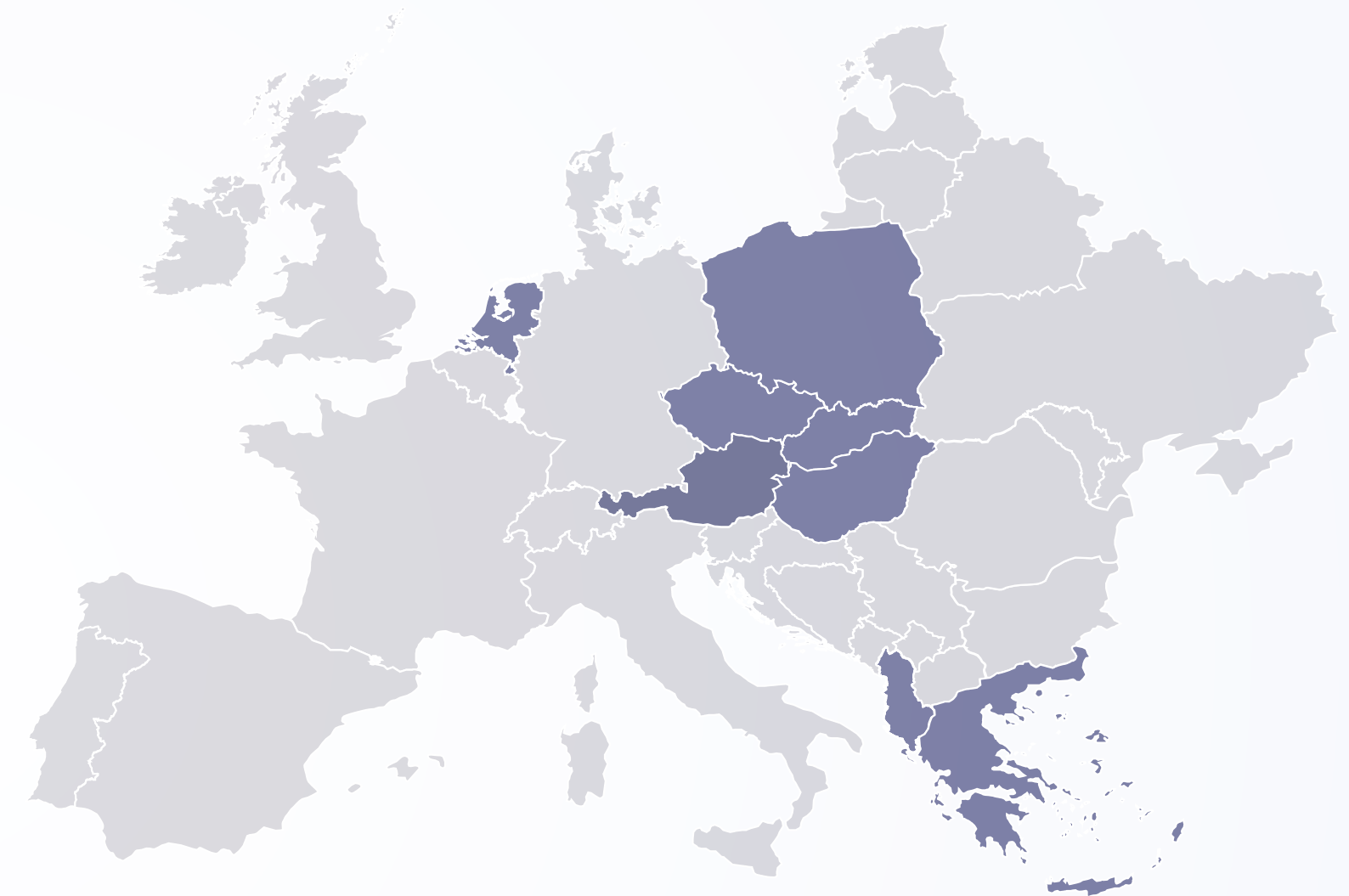
Verified in Europe,
designed for a digital,
integrated, and secure airspace.

Ing. Pavol Serbín,
CSO, R-SYS, s.r.o.



COMPANY PROFILE

- Founded in 2009
- Four offices in Slovakia
- More than 85 employees
- A software house for ANSPs and MIL.



We deliver integrated ATM, surveillance, and mission-critical communication solutions bridging CIVIL and MILITARY domains. Through close collaboration with international partners, we provide tailored, resilient systems and expert support on a global scale.

IXO SYSTEM & PRINCIPLES

- Digital twin of the airspace
- Data governance and data quality (ADQ)
- Business Rules Engine
- API-first architecture
- Modularity and scalability
- Zero-trust security model
- High availability and resilience
- Multi-domain integration
- Single Source of Truth
- Event-driven architecture
- Compliance by design
- Dual-use by DNA

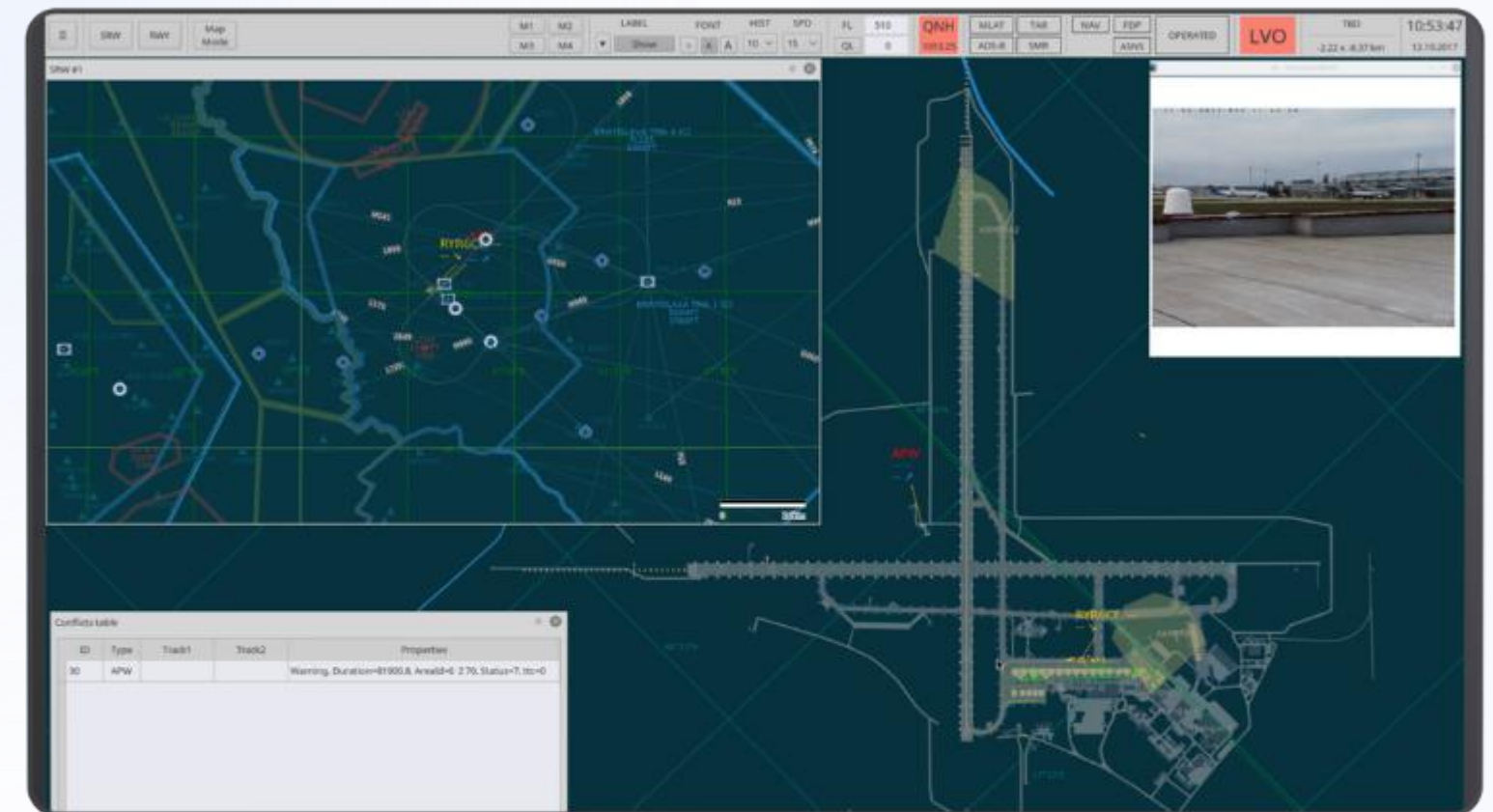
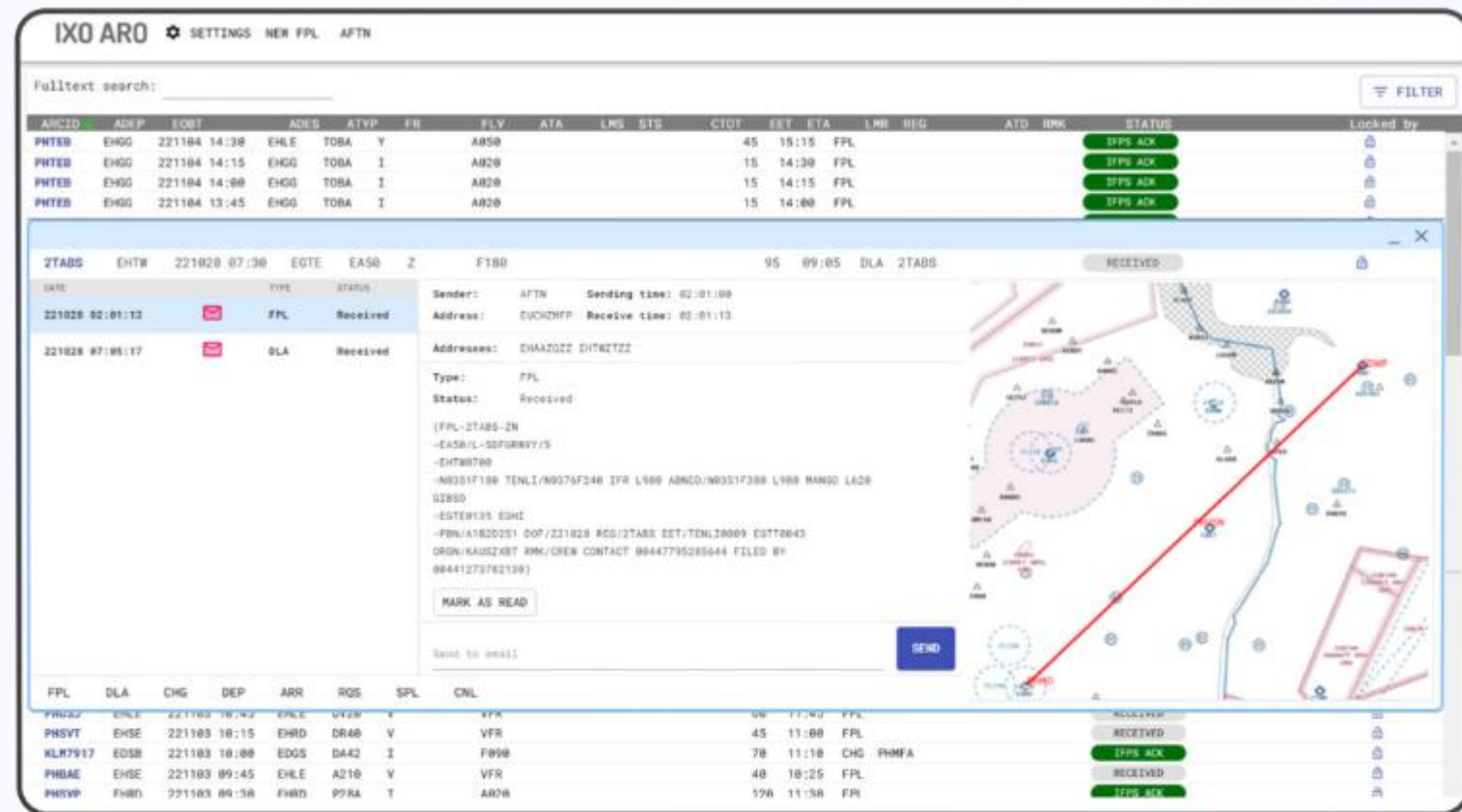


ATM, ARO/AD Portal

PANSA • LVNL • ACG

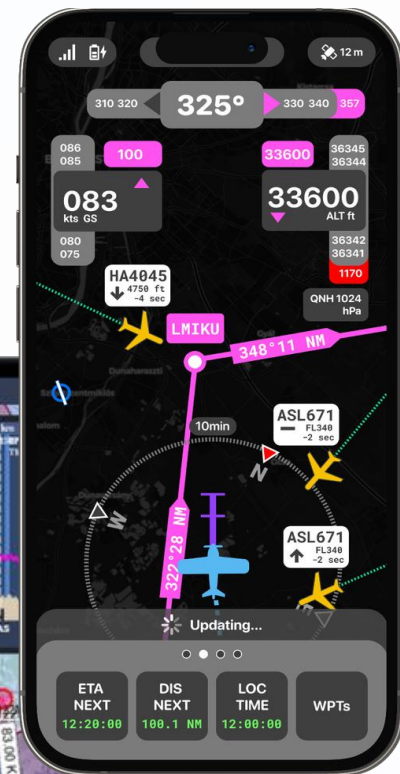
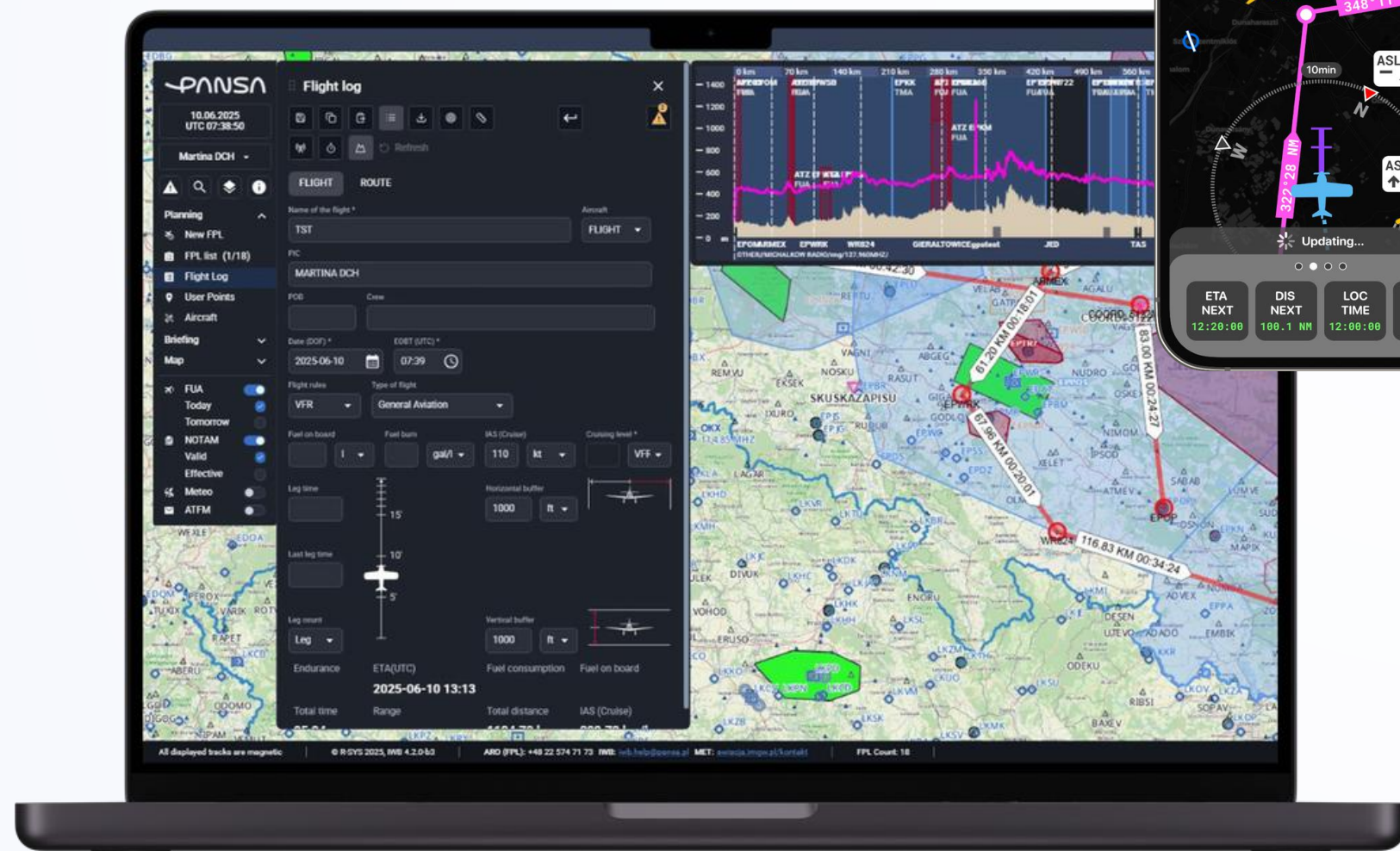
ATC, CGSS

BTS / LZIB



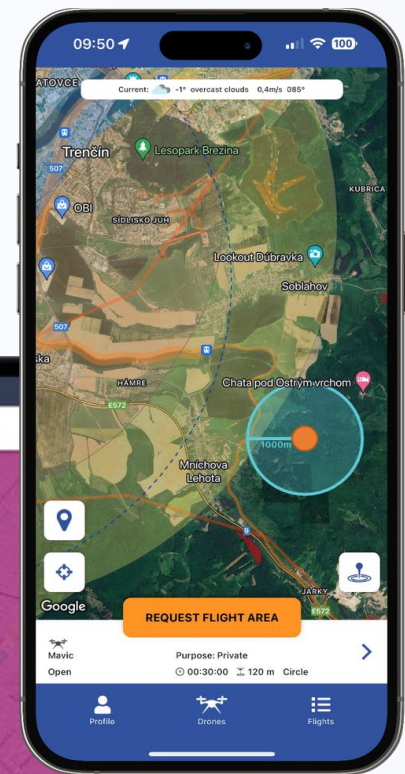
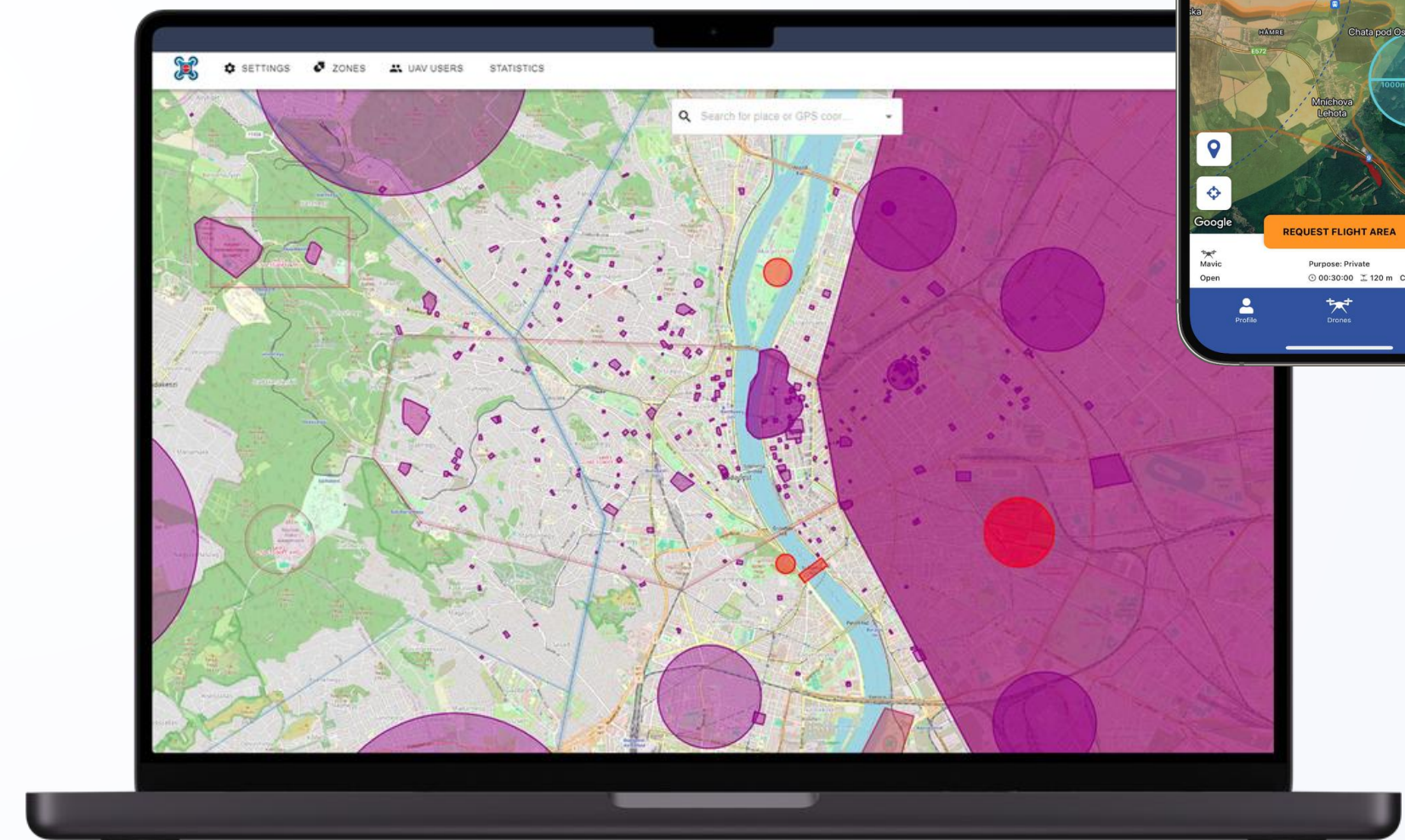
Preflight Briefings

PANSA • HC • LVNL • ACG



UTM/U-Space(CIS + USSP)

HC • MamDron



IXO SOLUTIONS for Military/DCM

The screenshot displays the IXO MIL/DCM interface. On the left, a 'Stations' table lists various assets with their status and coordinates. The main map shows a tactical view with various assets and zones. A detailed view of an asset is shown on the right, including its name, status, and location.

Name	Status	Ma...	Lat	Long	Actions
Falcon Nest	Fully operational		48.89	18.03	
Eagle Nest	Partially operat...		48.89	18.03	
Cerberus...	Partially operat...		49.03	21.30	
Hydra01	Partially operat...		49.03	21.32	
Hydra02	Fully operational		49.03	21.31	
Hydra03	Fully operational		49.02	21.30	
Hades02	Out of service		49.02	21.29	
Hades01	Fully operational		49.02	21.29	
Hades03	Fully operational		49.03	21.30	
dronove v...	Fully operational		48.31	18.10	
Sentinel	Out of service		47.88	17.54	
Test	Fully operational		48.89	18.02	
Titan	Fully operational		49.20	17.81	
Flanders	Fully operational		49.32	19.64	
Fart	Fully operational		49.57	18.53	
R-SYS Re...	Fully operational		48.68	17.30	

IXO MIL/DCM

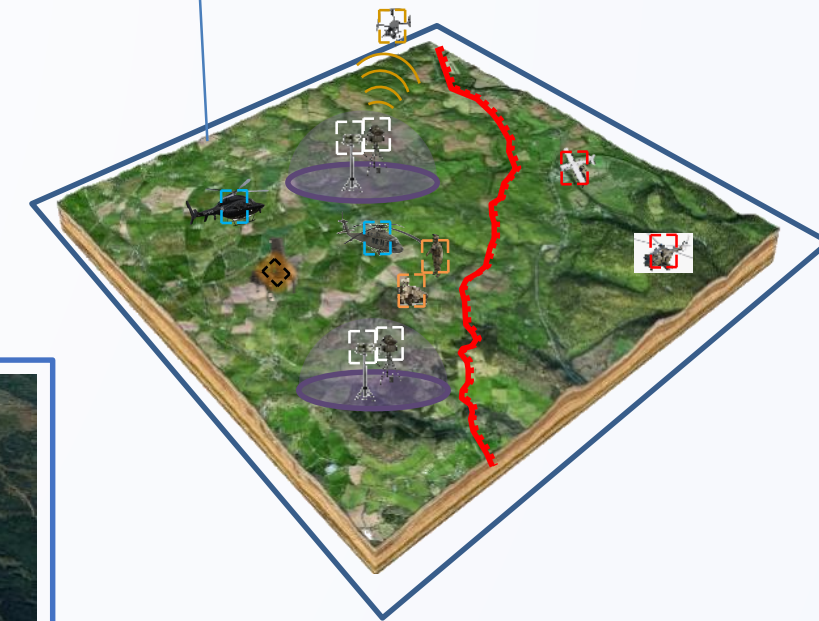
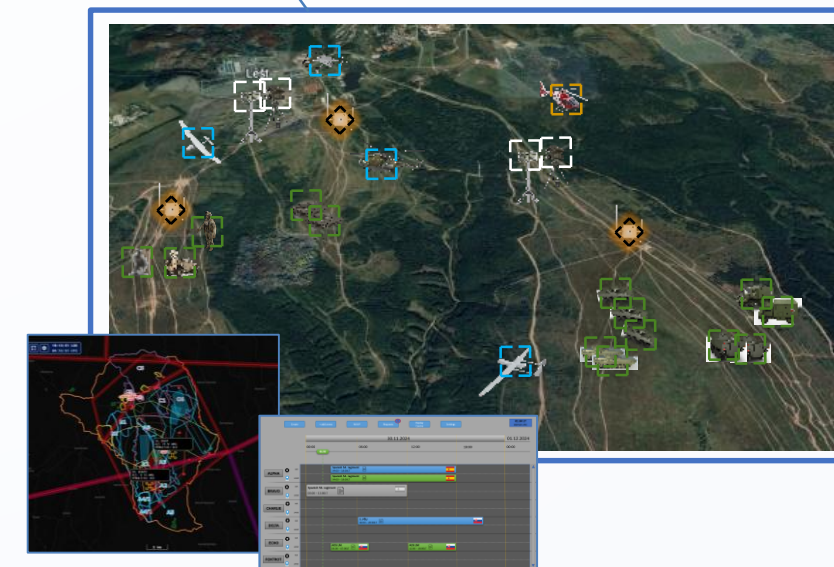
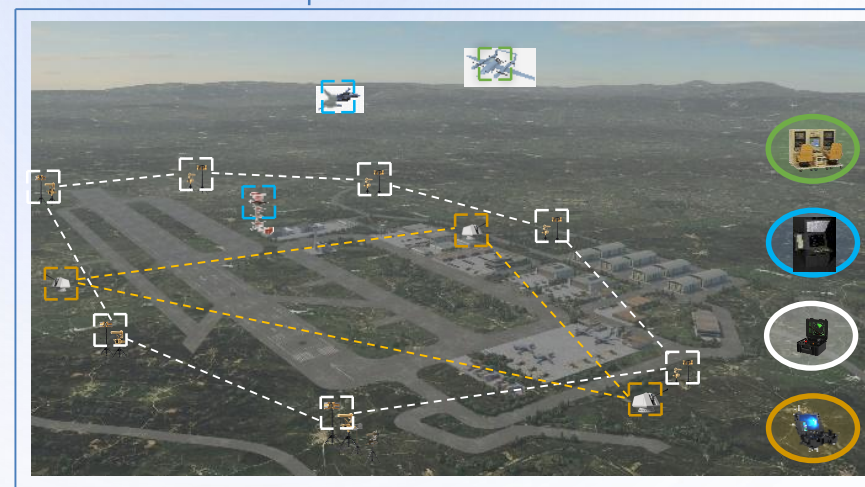
Sensor-free • Platform-free • Scalable

The screenshot displays the IXO MIL/DCM interface. The main map shows a tactical view with various assets and zones. A detailed view of an asset is shown on the right, including its name, status, and location.

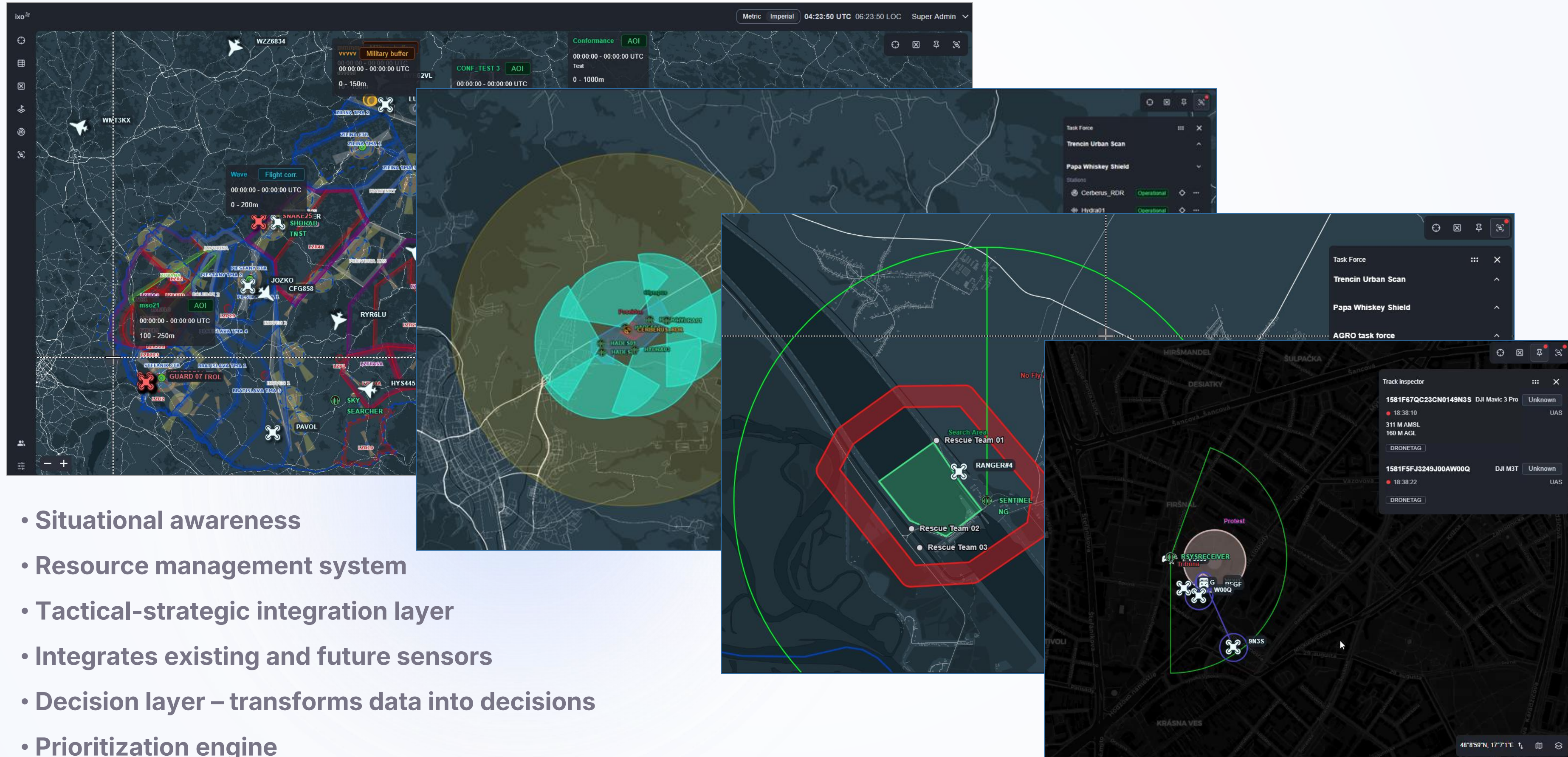


- ✓ **Multi-sensor and Multi-platform Synergy**
(cooperative / non-cooperative targets, UAS / UGS, cUAS / cUGS)
- ✓ **Resilience and Scalability**
(local nodes + central coordination)
- ✓ **Open Architecture + Modularity**
(architecture + modules)
- ✓ **C2/C3 Logic**
(detection → identification → tracking → decision → effector)
- ✓ **Dual-Use DNA**
(CIV/MIL interoperability and integration, vendor-neutral)

IXO MIL – use cases

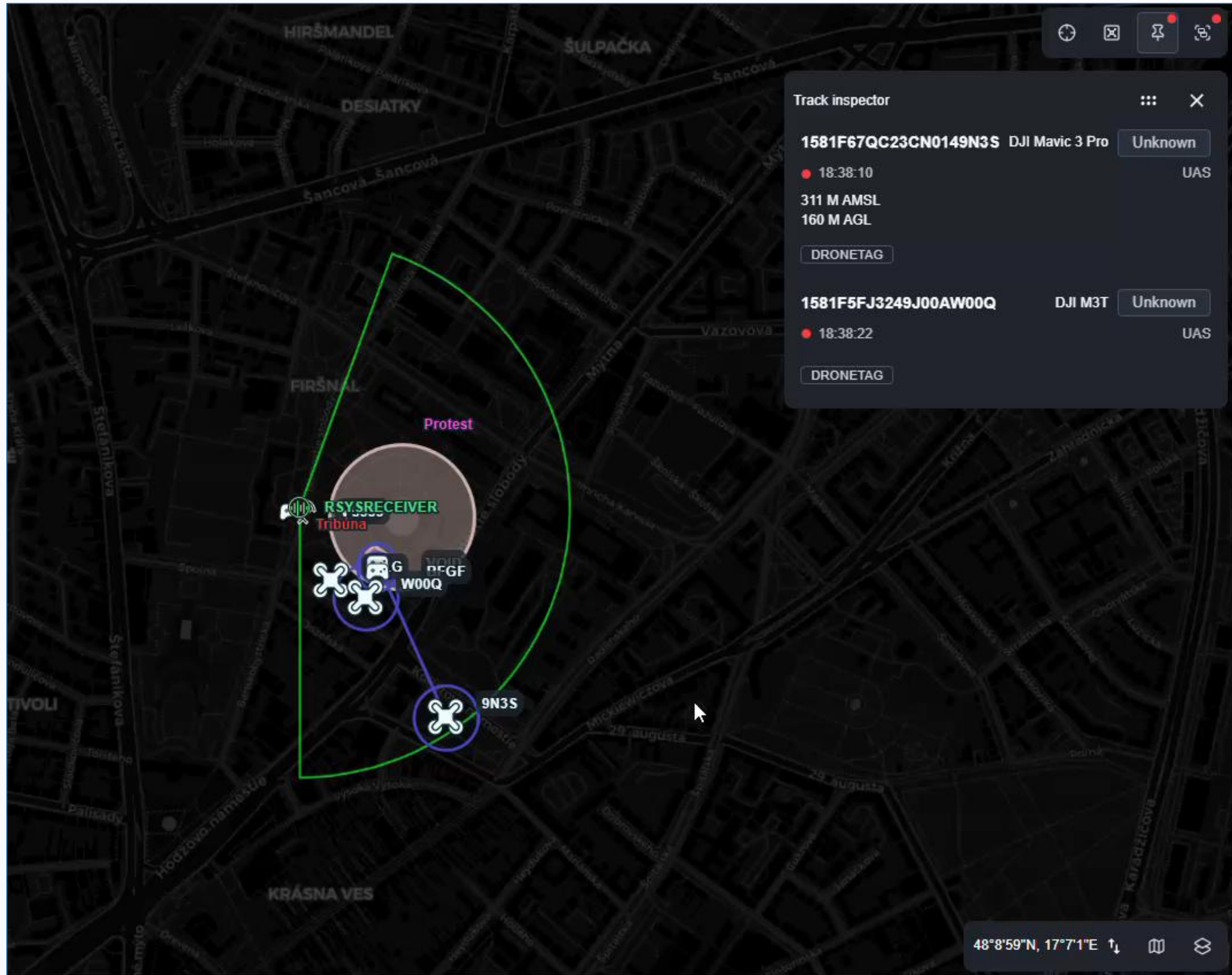


IXO MIL/DCM SOLUTIONS



- Situational awareness
- Resource management system
- Tactical-strategic integration layer
- Integrates existing and future sensors
- Decision layer – transforms data into decisions
- Prioritization engine

IXO MIL – live trials for Mol/Police (2025 - ongoing)

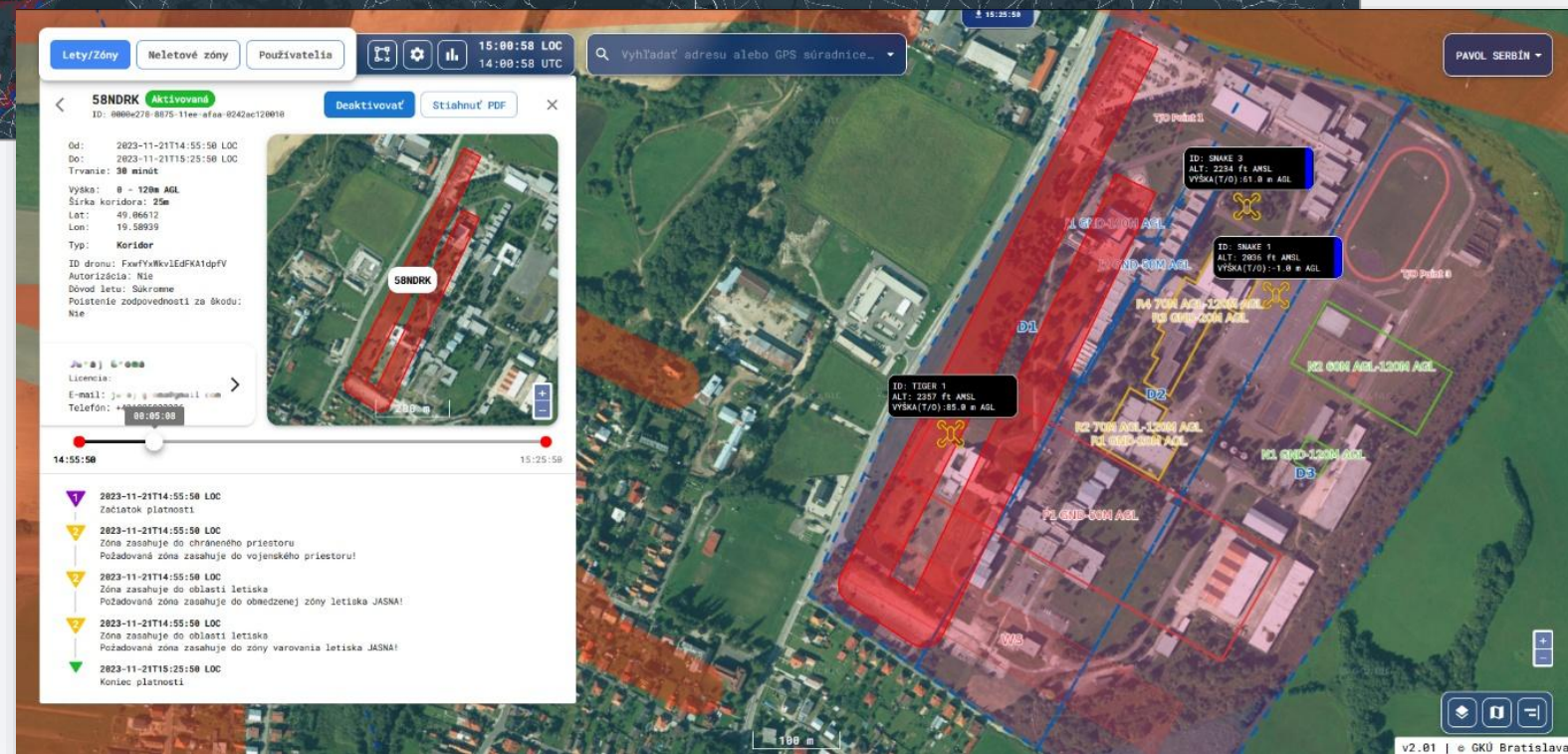
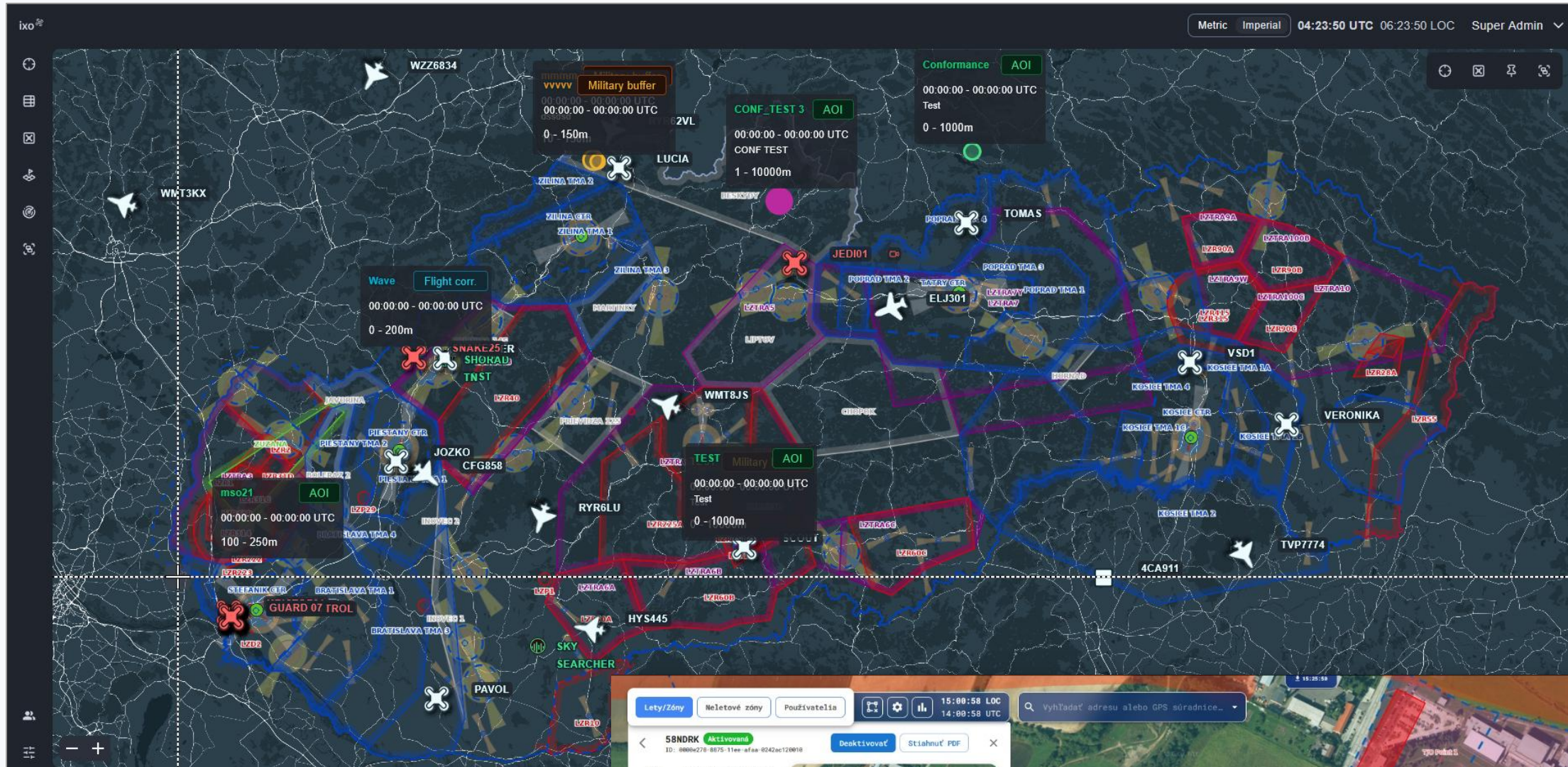


XX * Dronetag Rider



Rohde&Schwarz ARDRONIS Locate

IXO MIL - AOS LM(2025 - ongoing)



- ADS-B
- FLARM
- OGN
- Direct Remote ID
- Network Remote ID



- ADS-B transceiver



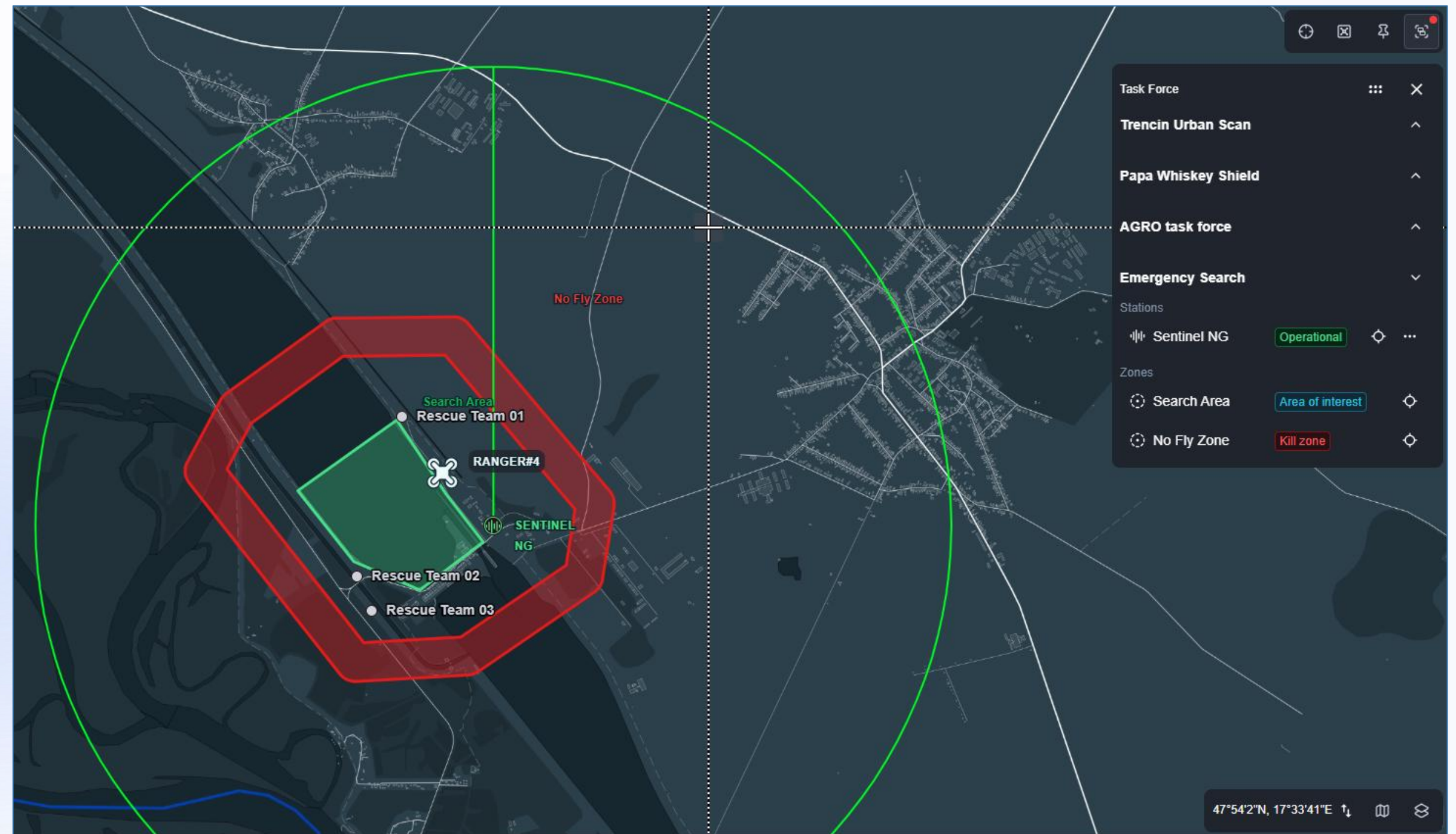
- Direct Remote ID
- Network Remote ID

IXO MIL – Gabcikovo (2025 - ongoing)



Dronetag Scout 1st GEN

Dronetag Scout 2nd GEN



Task Force		⋮	×
Trencin Urban Scan		^	
Papa Whiskey Shield		^	
AGRO task force		^	
Emergency Search		∨	
Stations			
📶 Sentinel NG	Operational	📍	⋮
Zones			
📍 Search Area	Area of interest	📍	
📍 No Fly Zone	Kill zone	📍	



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