Geospatial Intelligence

TACTICA^{AI}: A TII Venture Turning Multi-Sensor Data into Decision Advantage

<u>One Vision:</u> **A sovereign AI-first GEOINT platform** unifying tasking, detection, fusion and reporting into one operational decision system. **It empowers civil and defence operators to see, decide and act at the speed of operations**

<u>One Innovation</u>: The platform fuses EO, SAR, RF/SIGINT, AIS/ADS-B, OSINT and weather into one operational picture, while an agentic AI layer (LLM, VLM, CV) learns from every mission — transforming **fragmented intelligence workflows into real-time, mission-ready decisions**

<u>Towards a Sovereign Future</u>: Sovereign, secure and deployable anywhere: containerised, on-prem and edge-capable. As intelligence shifts toward distributed, nation-owned systems, defence and civil agencies urgently need a unified, sovereign, mission-deployable GEOINT stack — the gap TACTICAAI was built to close

From Months to Minutes

Legacy GEOINT chains take months of integration and hours per intelligence product, while TACTICAAI goes operational on-prem in 45 days, cutting sensor tasking from 6 hours to 10 minutes



EARTO IMPACT DELIVERED

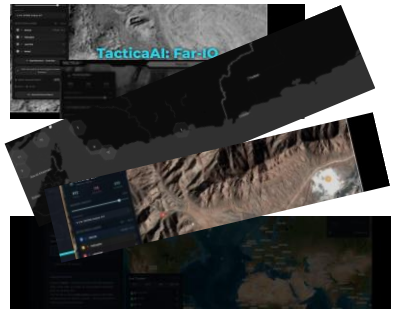
ADVANCED TECHNOLOGY RESEARCH COUNCIL

TII Technology Innovation Institute

A TII venture

TACTICA AI

Sovereign leader in AI-first operational GEOINT



TACTICA^{AI}: From Research to Operations

EARTO IMPACT DELIVERED

2020

TII established in Abu Dhabi

The Advanced Technology Research Council launches TII as its applied-research pillar, with dedicated AI & Digital Science, Secure Systems and Autonomous Robotics research centres — the foundation for sovereign GEOINT technology.

2021 – 2024

Research foundation matured at TII

With **1,100+ researchers, 100+ university & industry partnerships and 70 patents in process,** TII matured Falcon foundation models, Earth-observation analytics and secure autonomy into deployable technology.

TACTICA^{AI} project created at TII

A 12-specialist team assembled the AI-first GEOINT stack — OrbitIQ, FarIQ and OntoloGIS — built on TII research in foundation models, remote sensing, optimisation, and secure systems.

2025

Anchor sovereign deployment

TACTICA^{AI}'s full GEOINT stack **went operational on-prem in 45 days.** 40+ analysts trained, **3,000+ images processed daily with a 10 PB national archive on-platform.**

2026

TACTICA^{AI} Expands its Mission Footprint

Secures a new command-centre scope, while engagements expand to **different clients.**

2026 – 2030

Scale-up & market expansion

The platform family grows — RAAD (SIGINT), KASHF (AppSec), MARSAD (municipal C2), HADAF (tactical C5I).

UAE & Worldwide Market Expansion



"We embed alongside analysts, train AI on real missions, and close the feedback loop. We move sovereign intelligence from months of integration to days of operational impact."

The TACTICA^{AI} Team — A venture built at TII

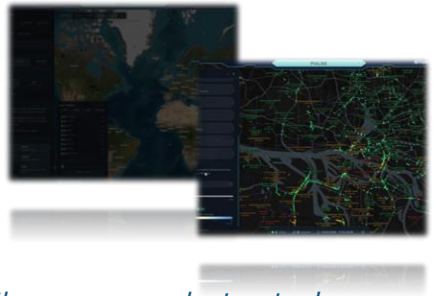
The RTO TII was the place where:

- The **idea was conceived** and developed into concept
- The **technology was matured** for sovereign deployment
- The **venture was created** and accompanied
- The **collaboration continued** for new mission domains

TACTICA^{AI} Technology's Impact on Operations

Defense & National Security

Tasking, Detection, Fusion & Reporting — One Decision System



In daily use: analysts task sensors, screen 3,000+ images per day and search a 10 PB national archive in one workflow —the platform into a full command-centre scope.

Cities & Infrastructure

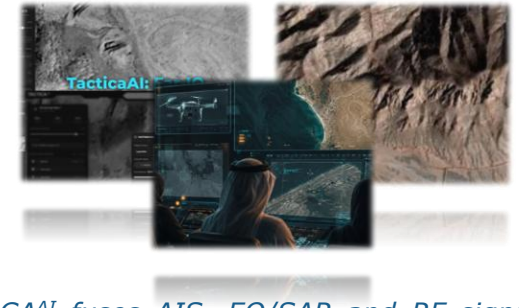
Municipal Command & Control, Utilities & Critical Infrastructure



The MARSAD platform carries the deployed stack into municipal operations — multi-source detection and fusion, SLA-backed assigned actions and evidence-based closure. With Abu Dhabi entities.

Maritime Domain Awareness

Dark-fleet detection, thermal surveillance & RF fusion



TACTICA^{AI} fuses AIS, EO/SAR and RF signals to expose dark fleets and monitor national waters in near real-time.

In production, **sensor tasking fell from 6 hours to 10 minutes, image review from 20 to 3 minutes per analyst, and reporting from 3 hours to minutes** — one platform consolidating **7 fragmented tools**

Public & industrial partners supporting TACTICA^{AI}: NVIDIA (Joint AI Lab), Google Cloud, Safran.ai, Satim, Comand AI, BEACON RED and 100+ partners via TII

A sovereign national capability: On-prem, edge-capable, with a 10 PB imagery archive