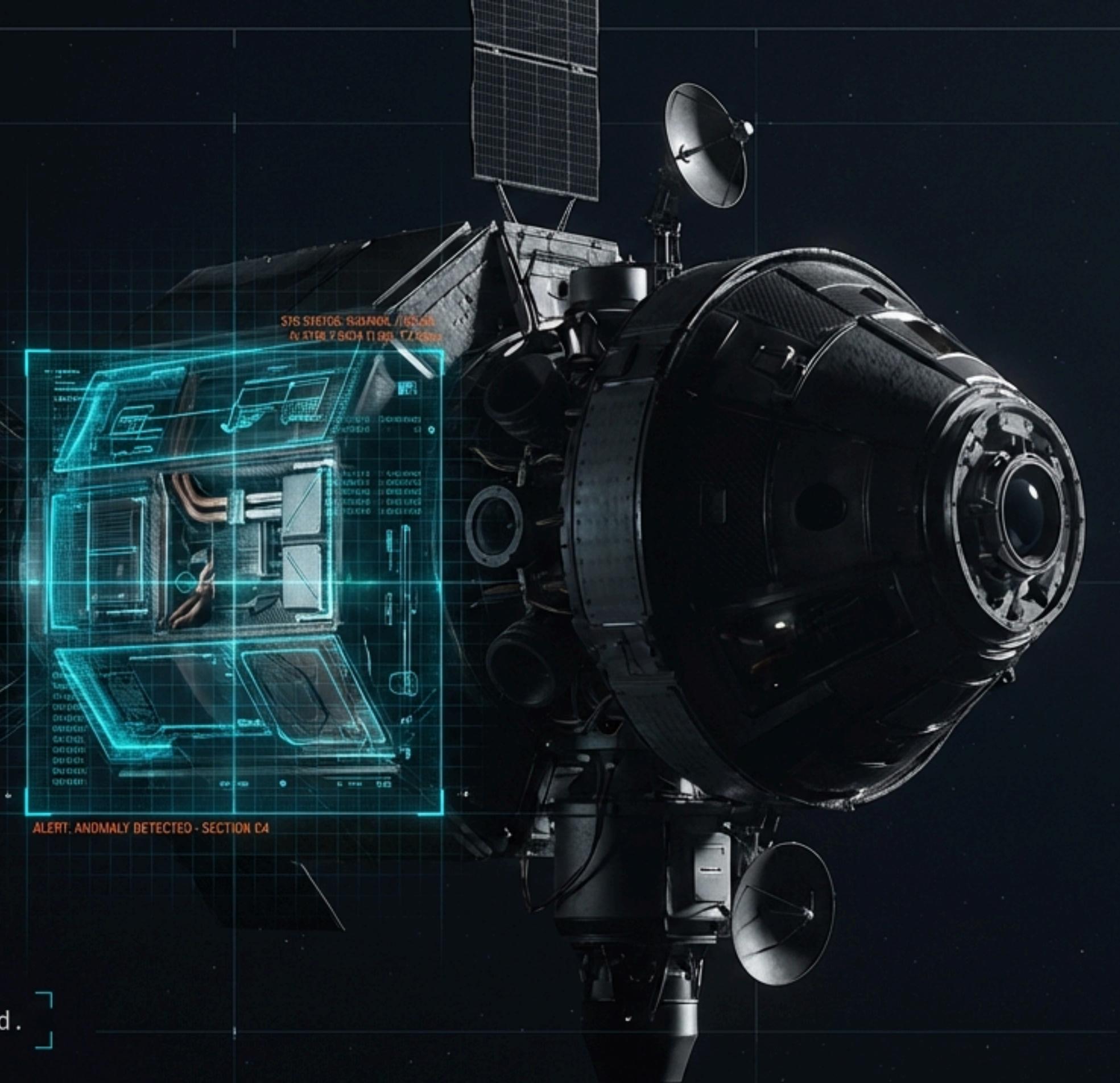


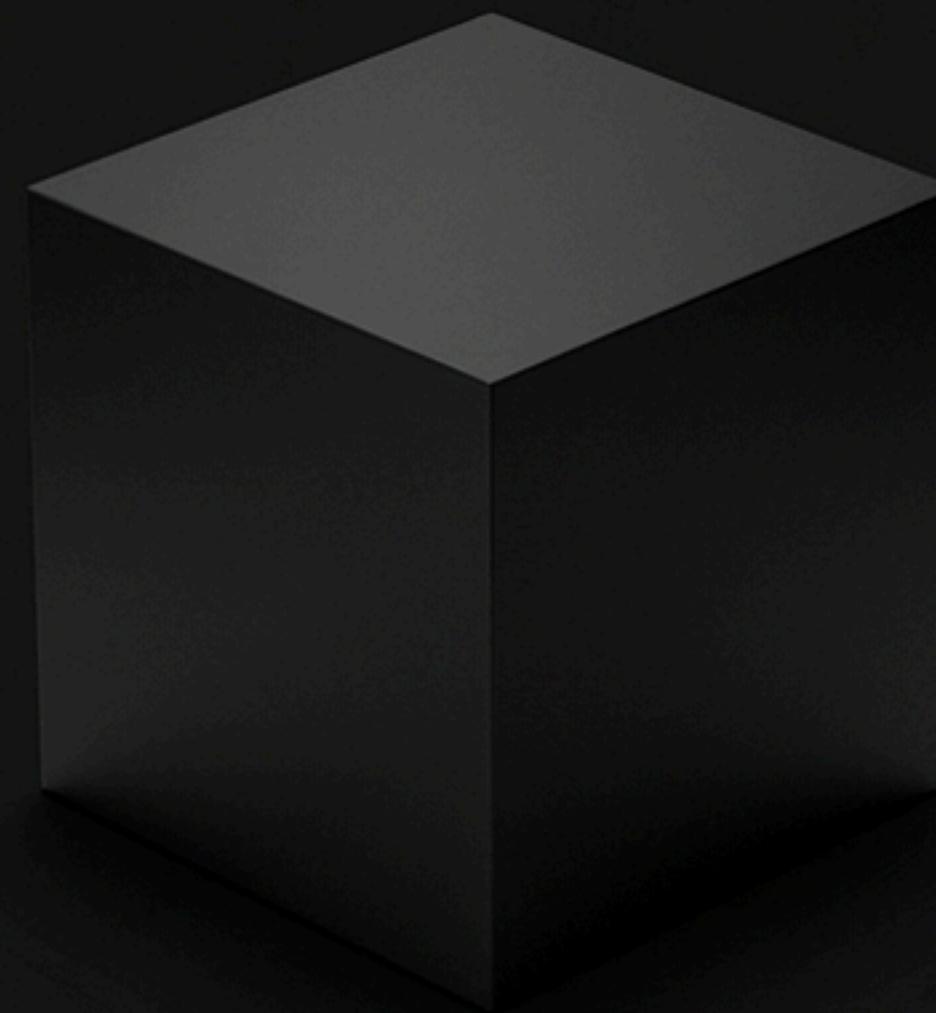
NOEMA

Black-Box Intelligence
for Space Systems.

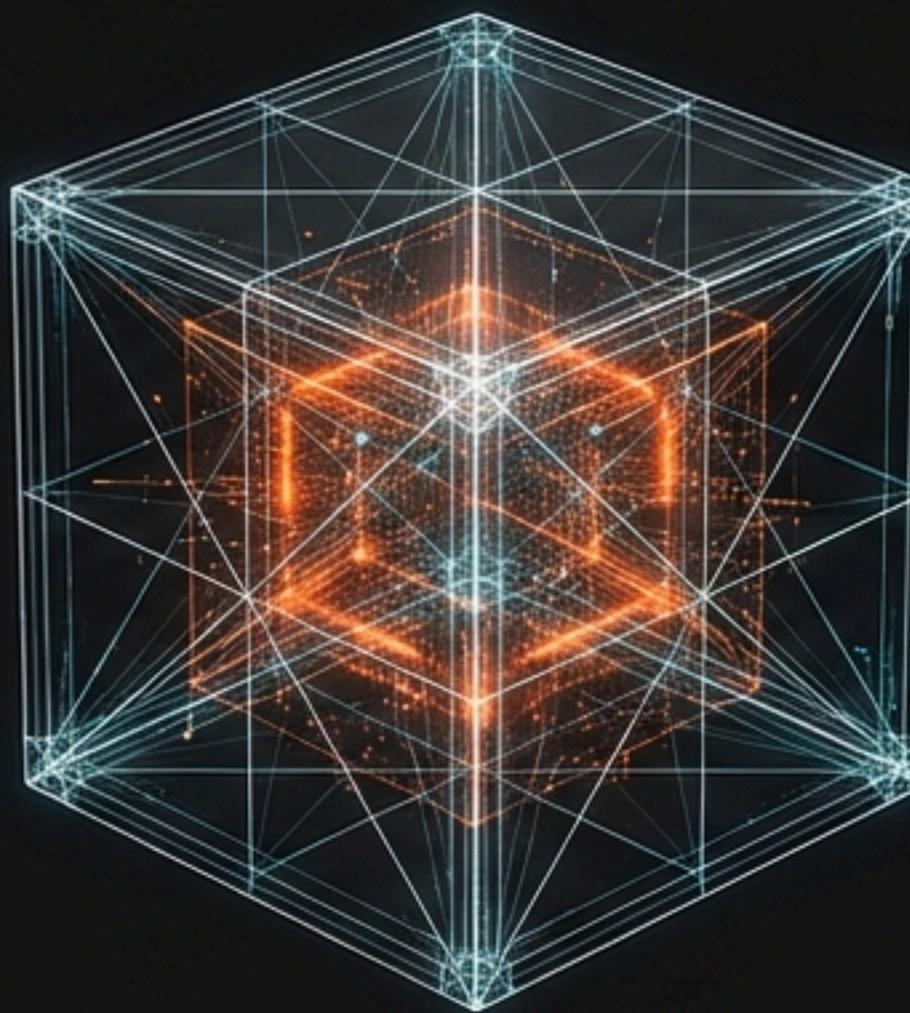
We diagnose what cannot be directly observed.



THE PROBLEM OF THE ‘BLACK BOX’



The Status Quo



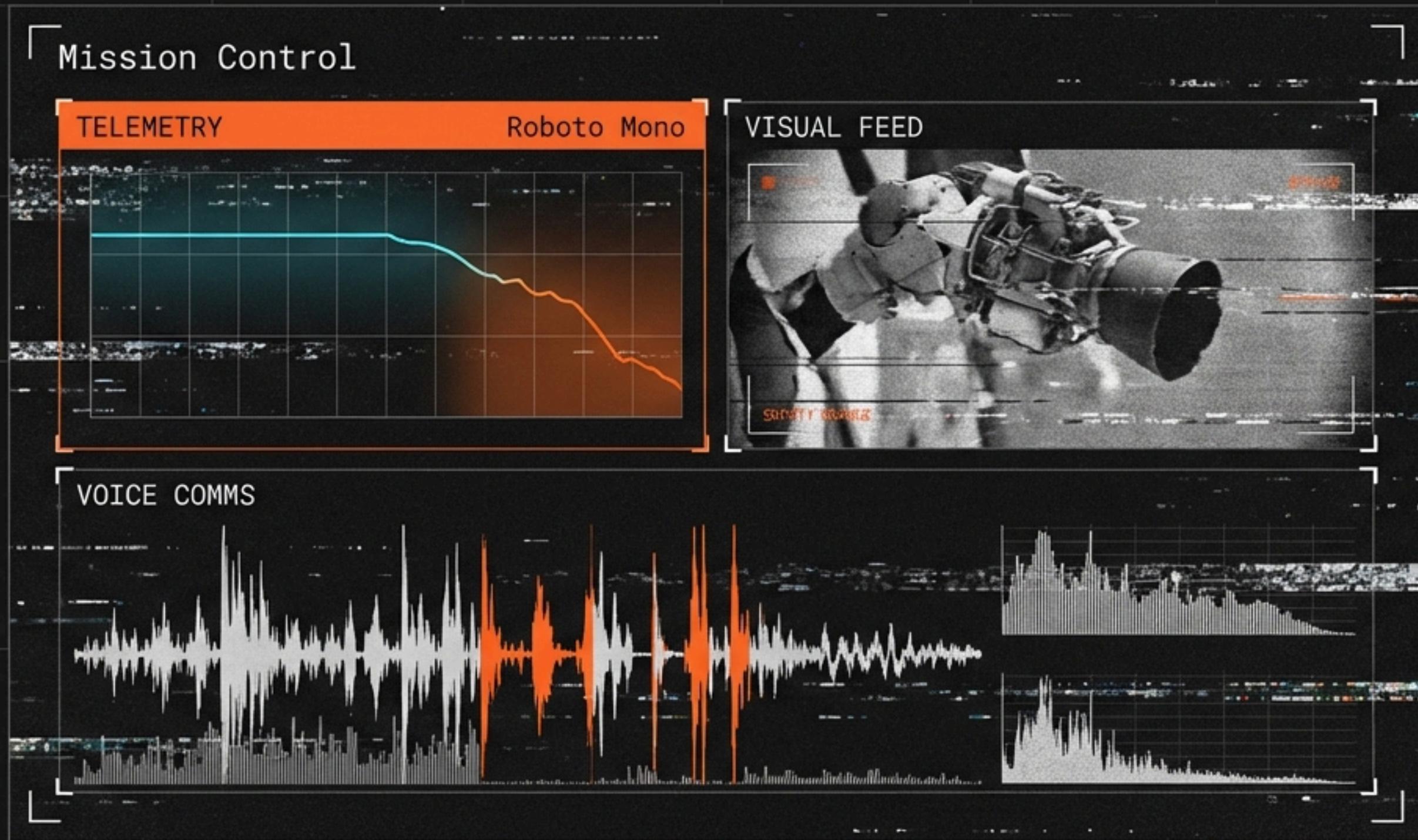
The NOEMA Reality

THE REALITY: In space operations, we see outputs, but never internal states. Most systems are opaque.

THE THESIS: If you can't open the box, you must infer the hidden reality from its traces.

THE DEFINITION: NOEMA is not a monitoring dashboard. It is an inference engine for the unobservable.

DECISIONS UNDER UNCERTAINTY



Telemetry: Drifts silently before failure is obvious.

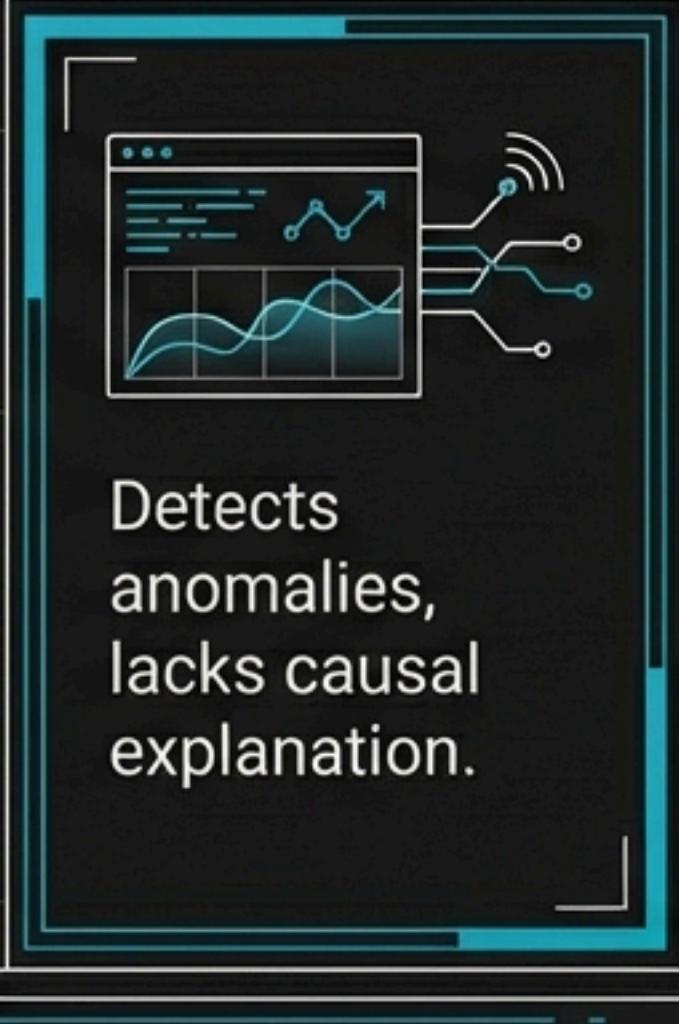
Visuals: Defects are detected too late or missed by tired eyes.

Voice: Channels carry stress signals that no current tool quantifies.

THE TRUE COST: It isn't data loss. It is **delayed understanding**.

WHY EXISTING TOOLS FALL SHORT

TELEMETRY TOOLS



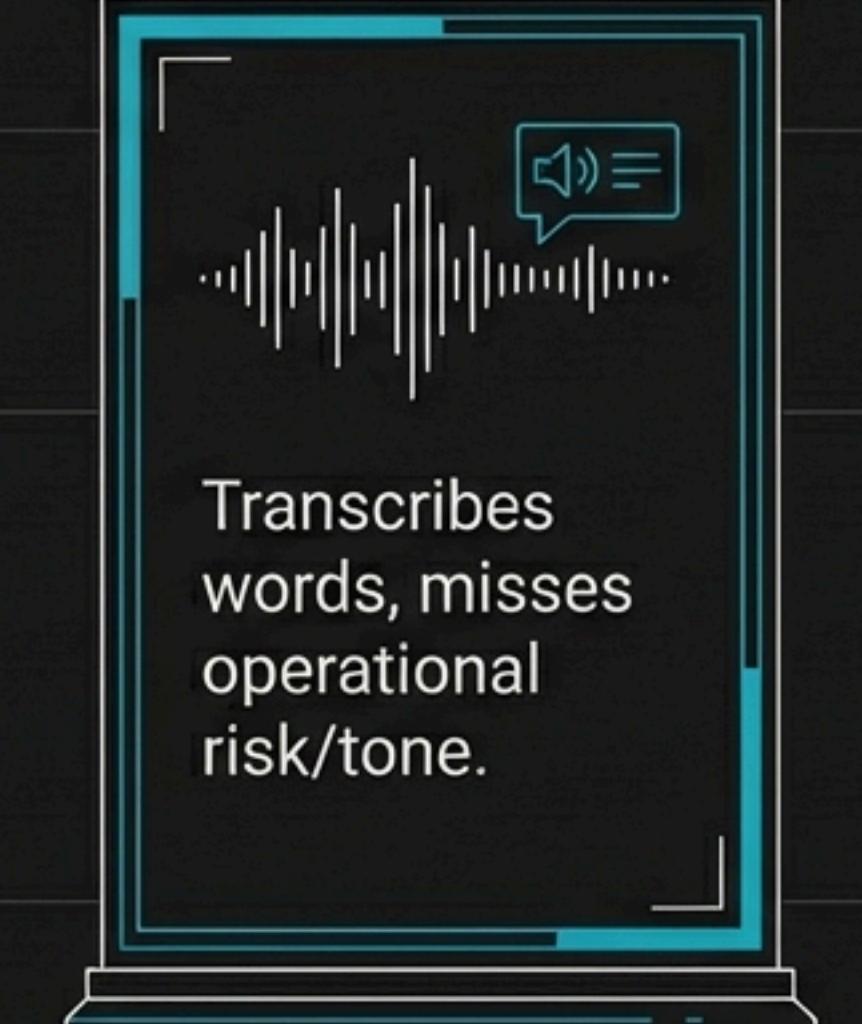
Detects anomalies,
lacks causal explanation.

COMPUTER VISION



Detects objects,
lacks mission context.

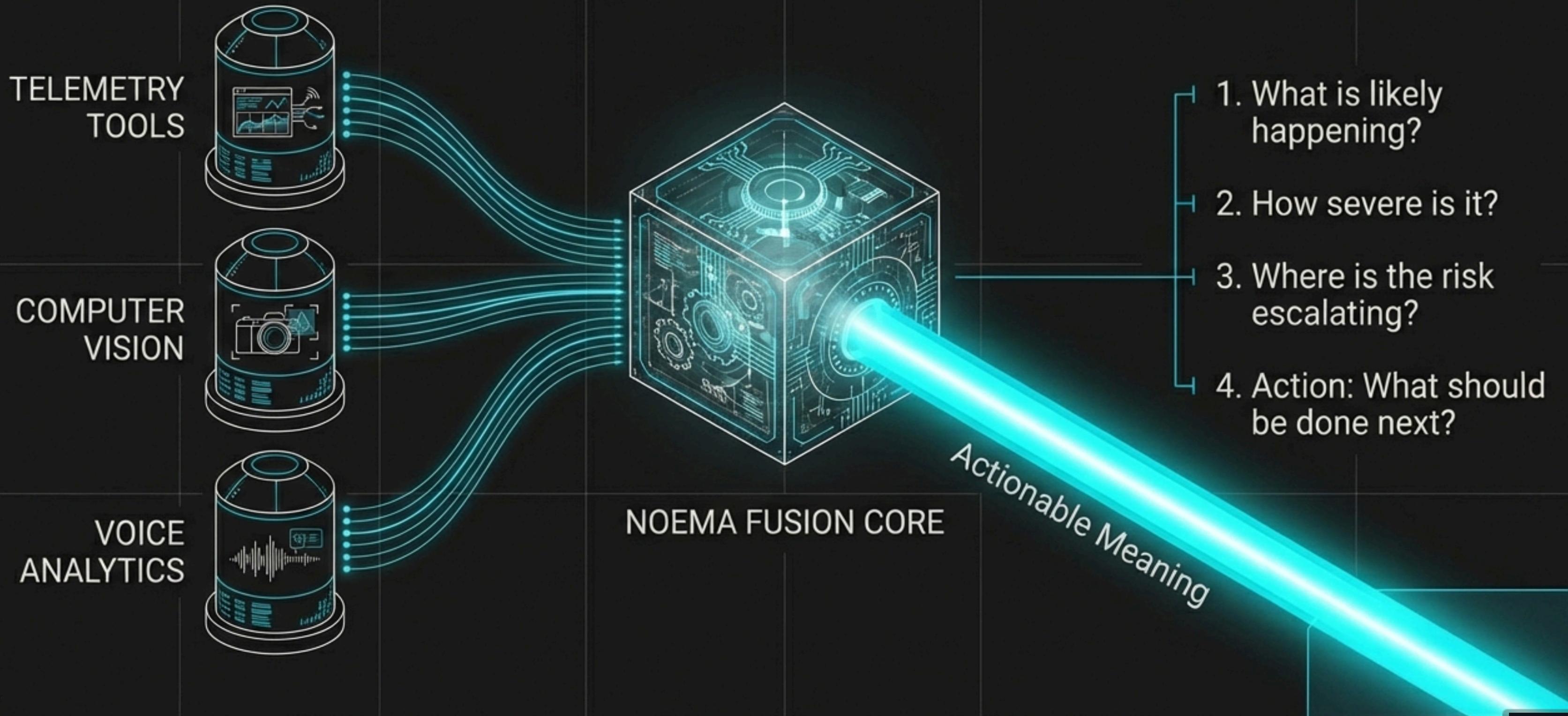
VOICE ANALYTICS



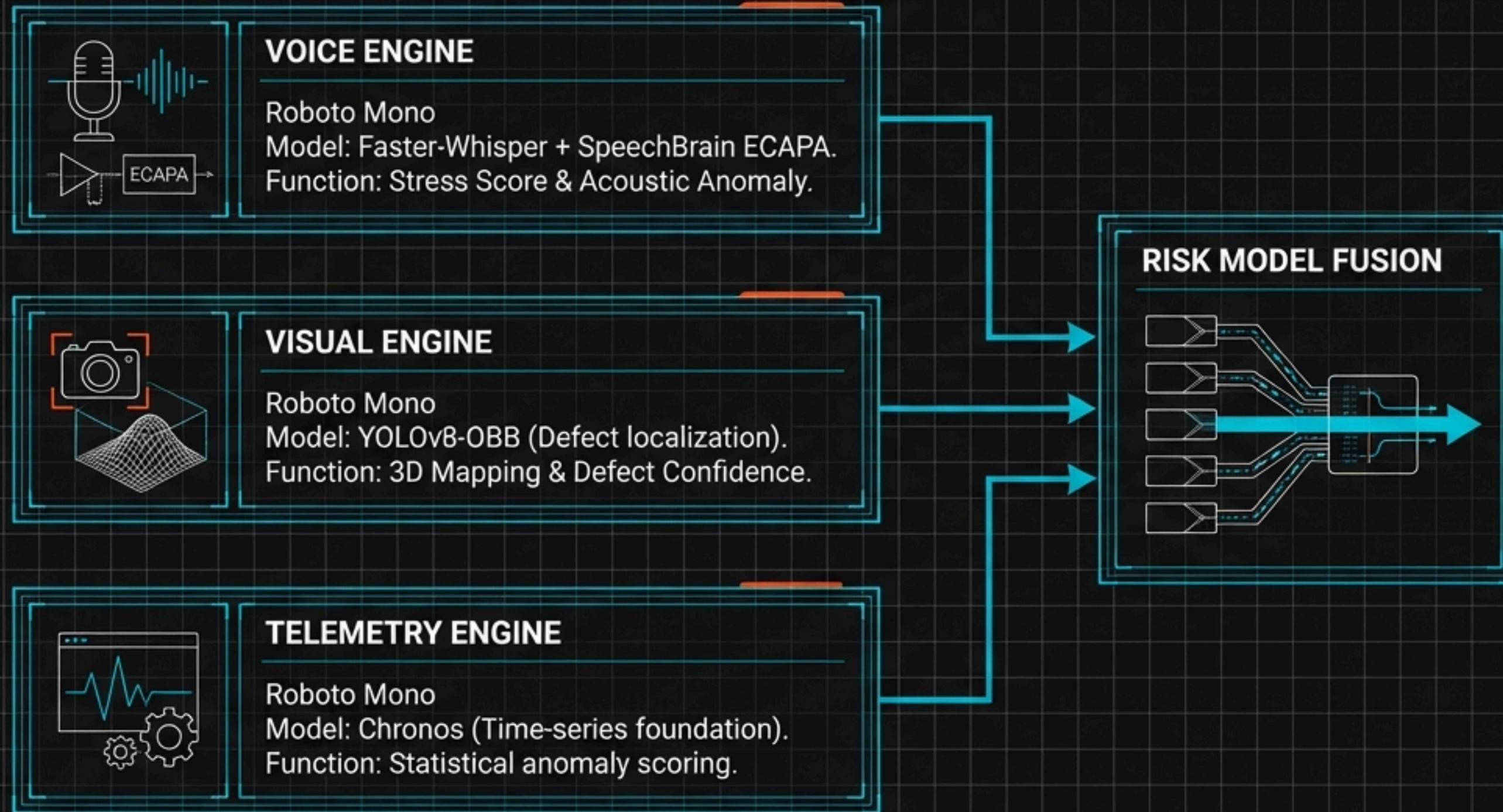
Transcribes words,
misses operational risk/tone.

THE GAP: Teams are forced to perform '**Manual Fusion**' under extreme time pressure.

FROM FRAGMENTED SIGNALS TO ONE NARRATIVE



MULTI-MODAL DIAGNOSTIC ARCHITECTURE



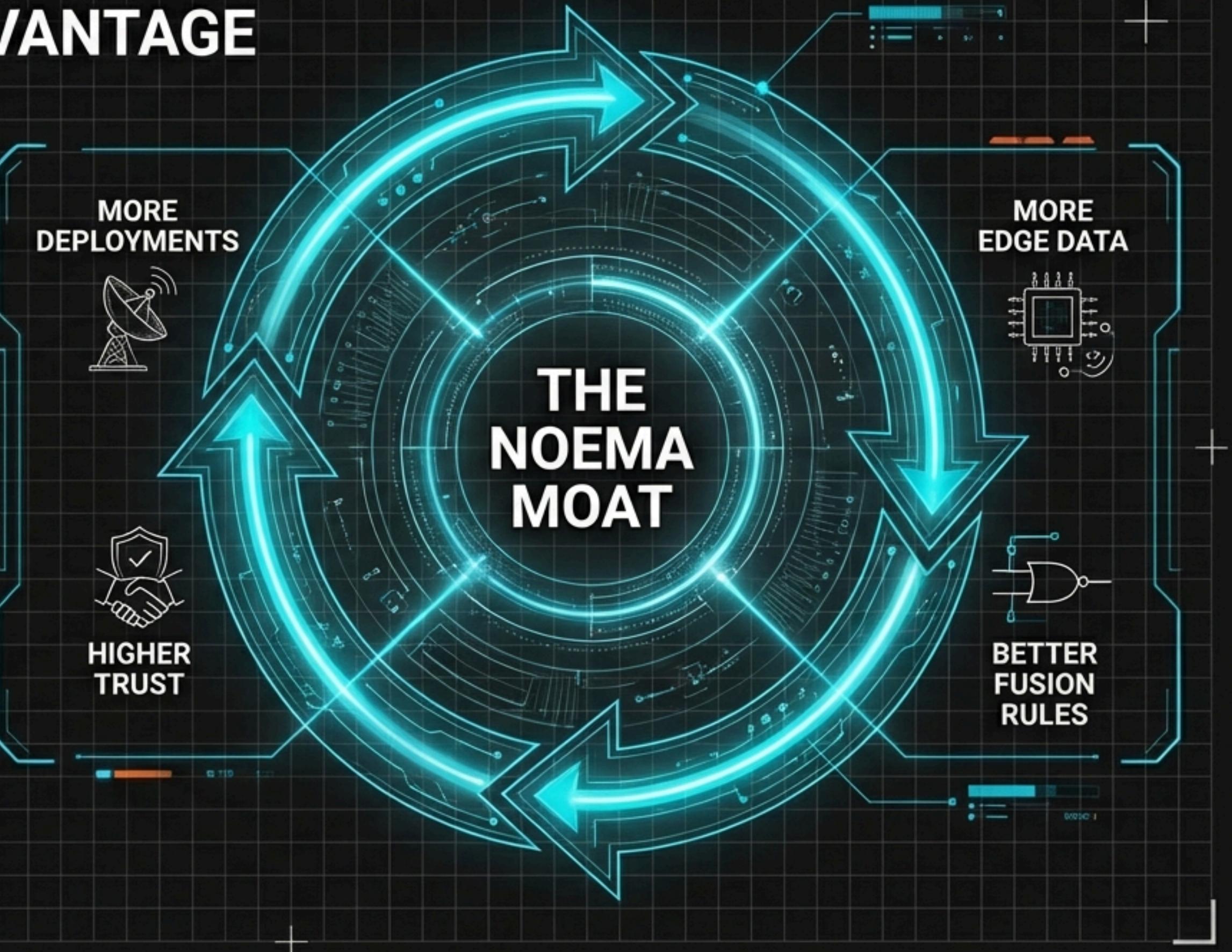
Specs:

FastAPI
PyTorch
Three.js

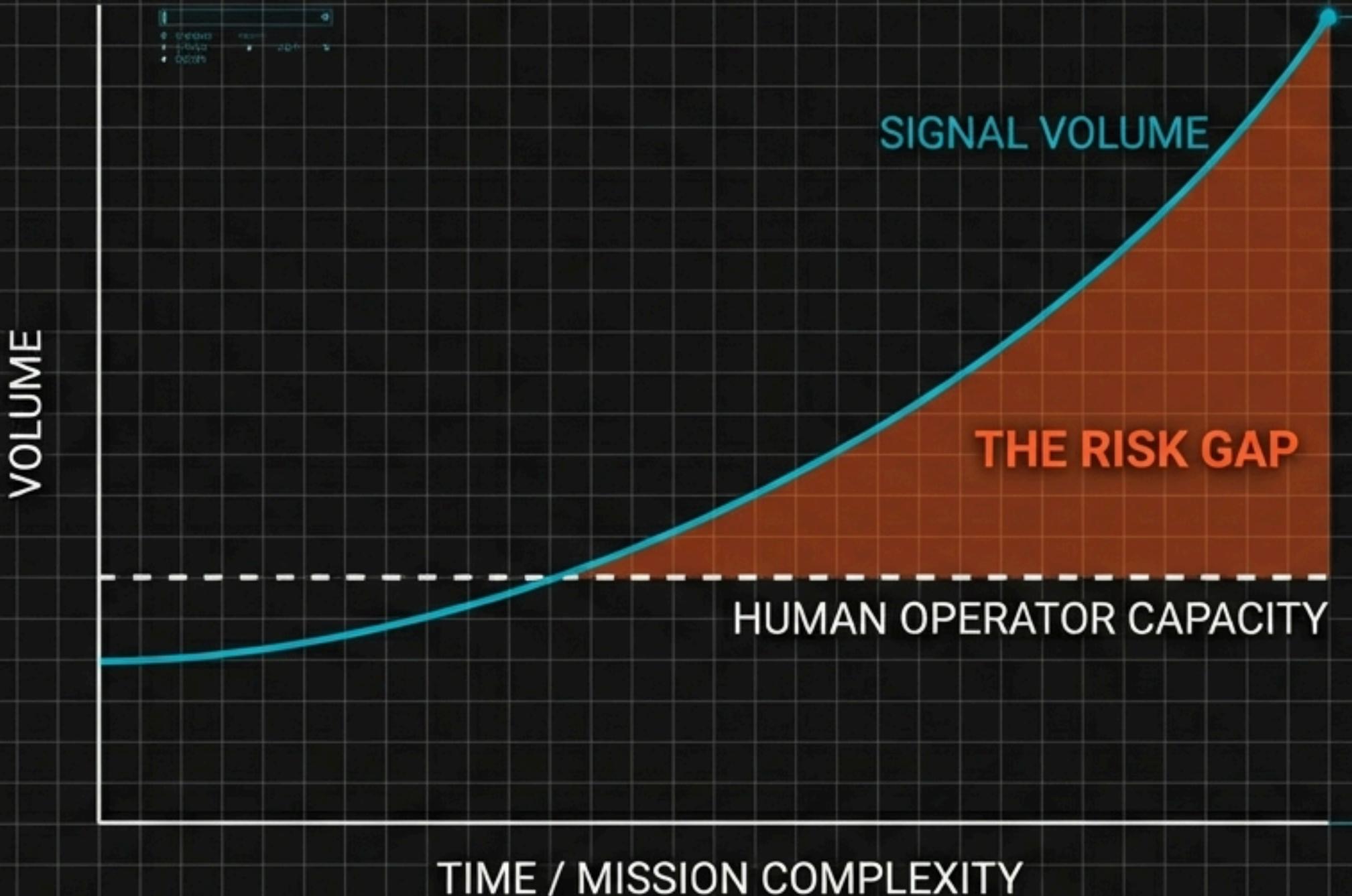
THE INFERENCE ADVANTAGE

Key Differentiator: Our advantage is not a single model; it is the **Fusion Architecture**.

- Time-Aligned Event Graph: Correlating what happened with why it matters.
- Explainability: Not raw scores, but severity and confidence ratings.



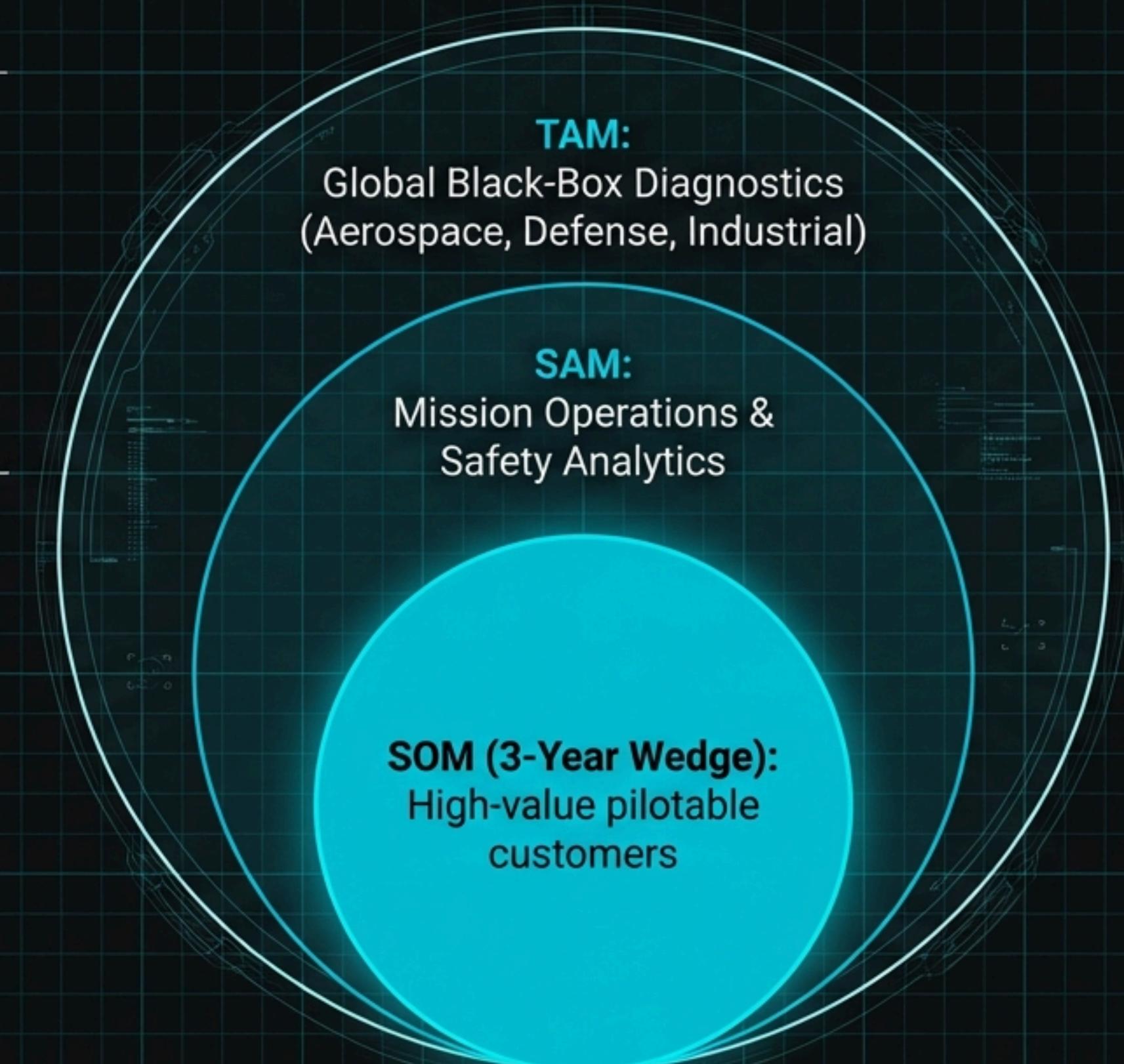
THE STRUCTURAL PAIN POINT



Insight: Mission complexity is outpacing human cognitive capacity.

Positioning: NOEMA sits at the highest-value point in the stack—between the raw signal and the high-stakes decision.

A MULTI-BILLION DOLLAR DIAGNOSTIC CATEGORY



STRATEGY

- 1. Space Ops (High Urgency)
- 2. Defense Comms
- 3. Industrial Monitoring

BEYOND SINGLE-POINT SOLUTIONS

DECISION INTELLIGENCE

MONITORING

APM TOOLS
Deviations only

VOICE TOOLS
Compliance

CV INSPECTION
No context

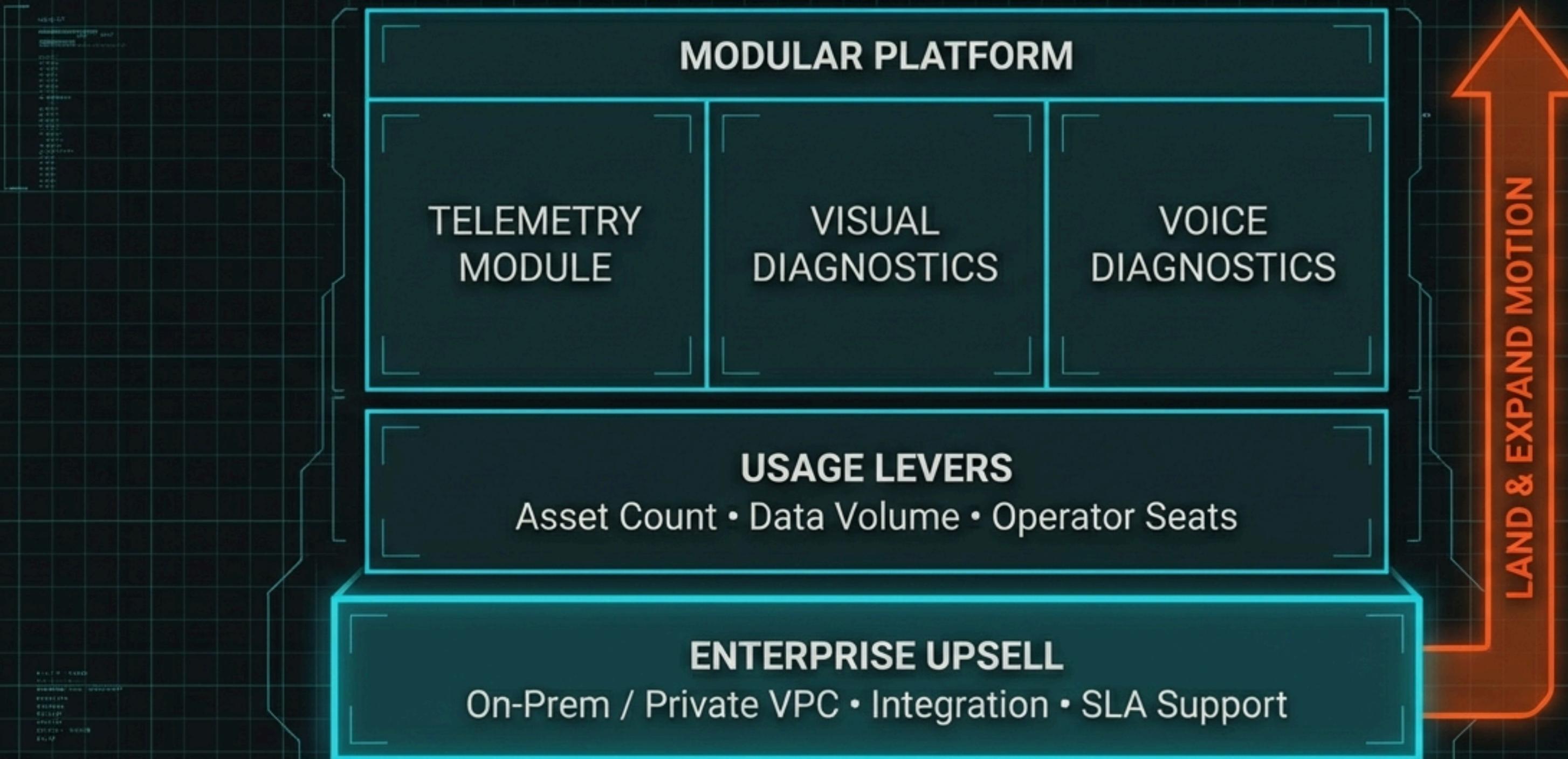
SINGLE MODALITY

MULTI-MODAL FUSION

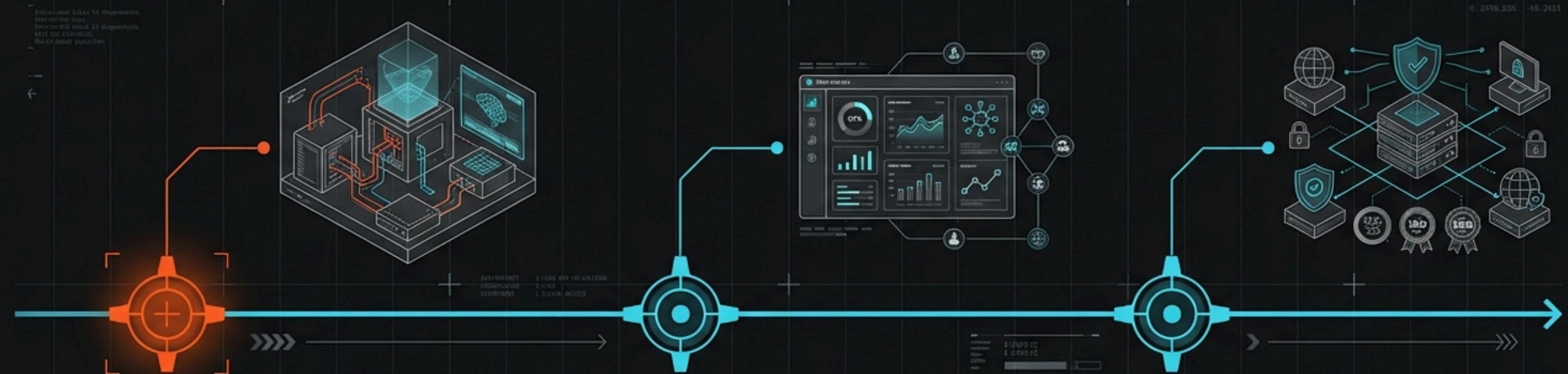
NOEMA

Decision Intelligence Layer.
Secure. Actionable.

B2B SAAS + ENTERPRISE LICENSING



EXECUTION ROADMAP



PHASE 1: PROTOTYPE (CURRENT)

End-to-end local AI diagnostics.
Unified Interface.
Multi-modal pipelines.

PHASE 2: PILOTS

Design partners.
KPI quantification (MTTD).
Reliability hardening.

PHASE 3: SCALE

Enterprise contracts.
Security certifications.

BUILT FOR HIGH-STAKES ENVIRONMENTS

TEAM DNA

- **Full-Stack Execution:**
Model + Backend + Interface.

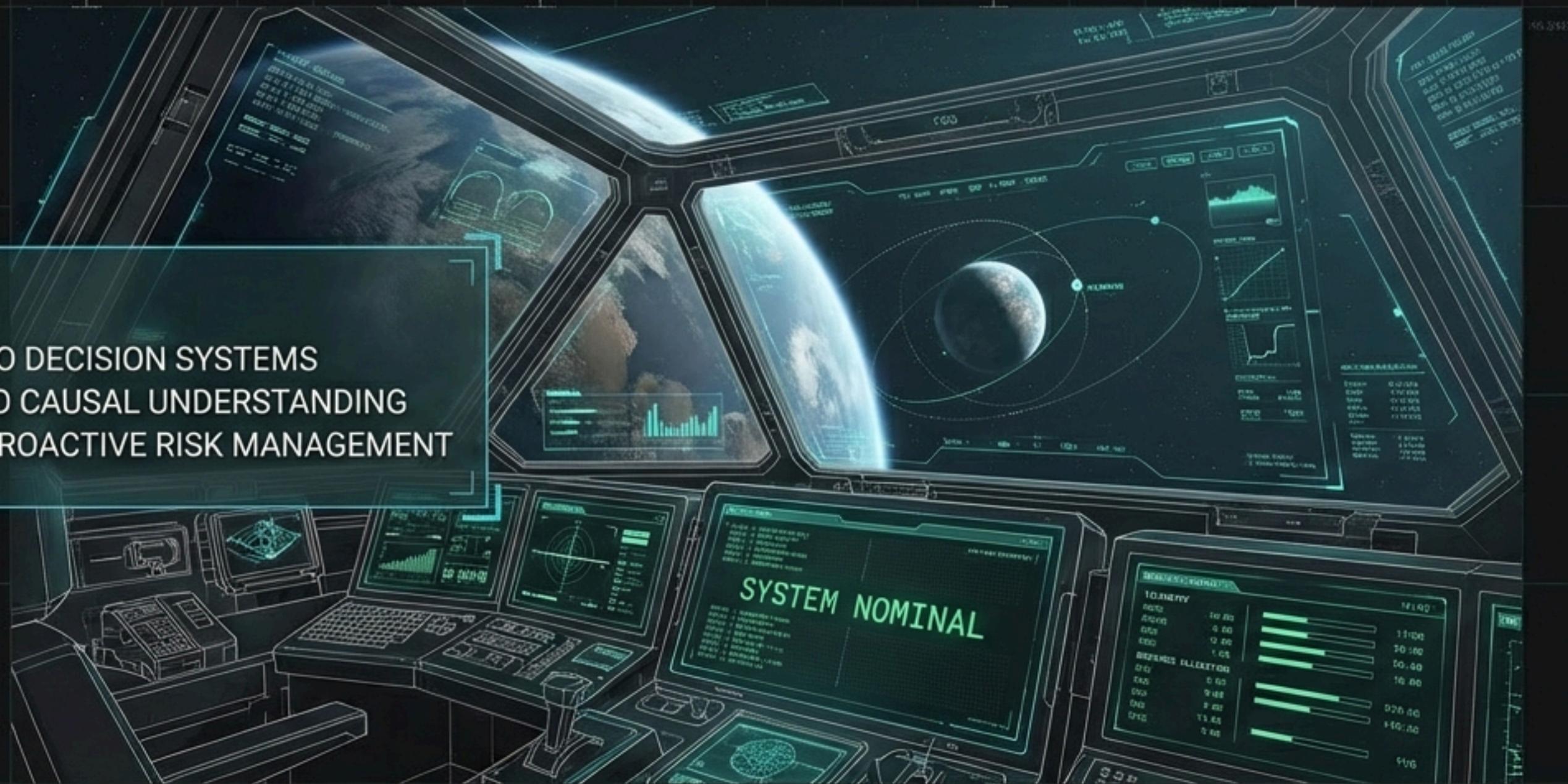
- **Systems Mindset:**
Expertise in constrained,
black-box domains.

- **Operator Focus:**
Fast iteration loops with
end-users.

THE DEFAULT INTELLIGENCE LAYER

THE SHIFT:

- FROM MONITORING → TO DECISION SYSTEMS
- FROM RAW ALERTS → TO CAUSAL UNDERSTANDING
- FROM REACTIVE → TO PROACTIVE RISK MANAGEMENT



IF YOU CANNOT INSPECT INTERNALS DIRECTLY, NOEMA RECONSTRUCTS REALITY.

ACCELERATING THE FUTURE OF OPERATIONS

USE OF FUNDS

COMMERCIALIZATION



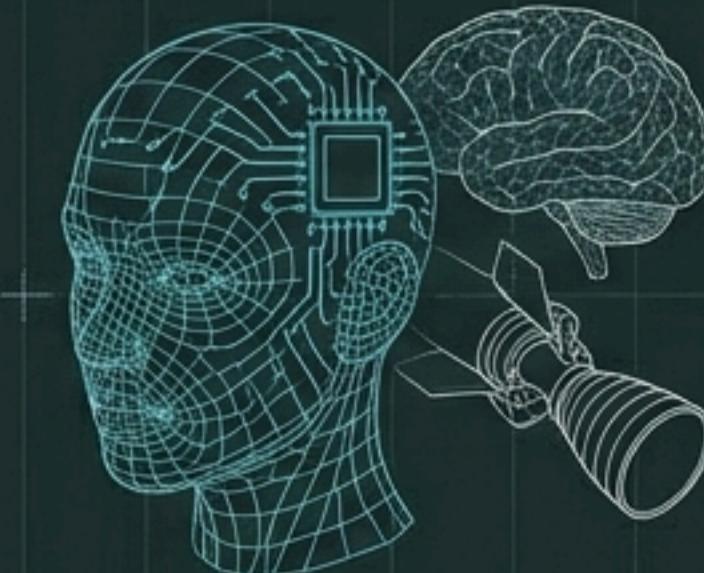
- Pilot acquisition.

PRODUCT HARDENING



- Enterprise security & reliability.

TEAM SCALING



- AI & Aerospace talent.

As mission complexity grows, black-box inference shifts from nice-to-have to mission-critical.

[Insert Contact Details]