



HYBRID CORE

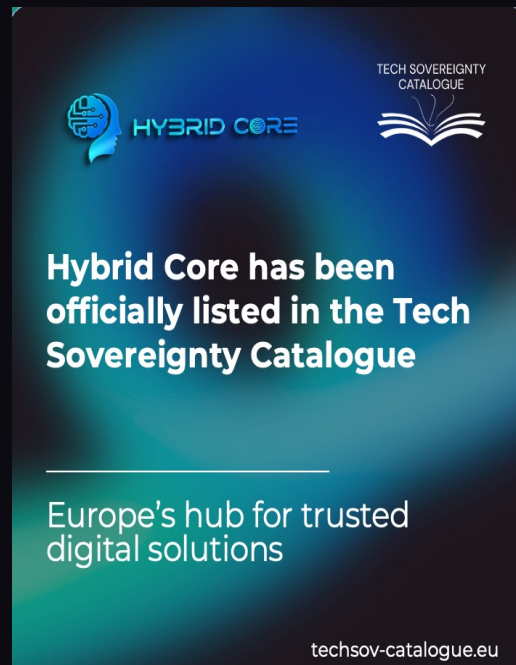


The Genesis of a Smart, Quantum-Secure, and Future-Proof Digital Era

Awards & Recognitions



**Global Challenge
Winner**

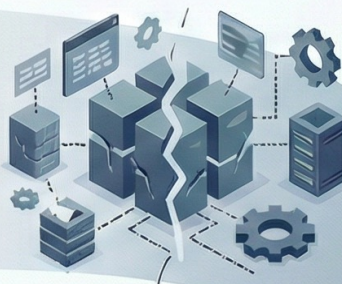


Hybrid Core: The Future of Sovereign AI & Decision Intelligence

THE CHALLENGE: OUTDATED SYSTEMS IN CRITICAL SECTORS

Fragmented & Inoperable Platforms

Legacy systems are siloed, preventing a complete and real-time operational view.



Reactive, Not Predictive, Decision-Making

Organizations react to past events instead of proactively shaping future outcomes.



Vulnerability to Future Threats

Critical infrastructure lacks protection against the emerging threat of quantum computing



The intersection of Native AI & PQC

THE SOLUTION: THE SMART NAVIGATOR ECOSYSTEM

Smart Navigator Platform

Unified Intelligence with Hybrid AI

Fuses all data sources using a unique mix of semantic, neural, and agentic AI.



Predictive Foresight via Simulation

Multi-agent simulations rehearse complex scenarios to predict risks and opportunities



Integrated Quantum-Resilient Security

Post-Quantum Cryptography and Zero-Trust architecture safeguard the entire ecosystem



€229.3 Billion

€36.3 Billion

€37+ Billion

Enterprise AI Market (2030)

Decision Intelligence Market (2030)

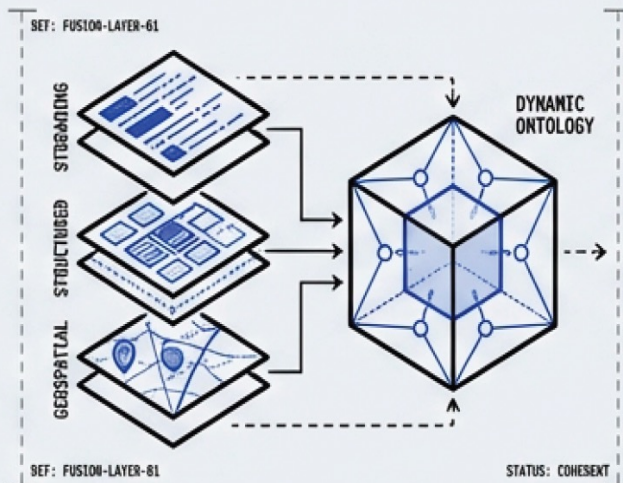
AI in Security Market (2034)



Hybrid Core's Flagship – Smart Navigator

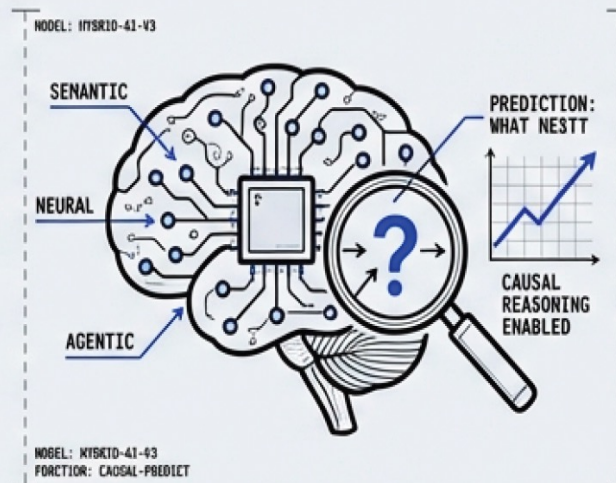
The World's First Agnostic, AI-Native & Quantum-Secure Decision Intelligence Ecosystem

UNIFIED INTELLIGENCE



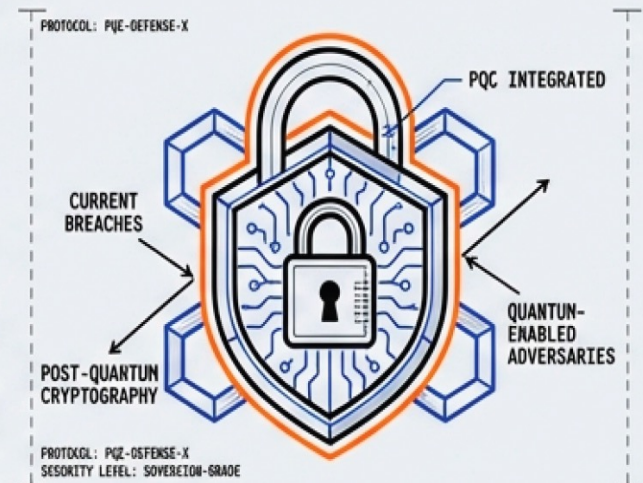
Fusing fragmented data streams—streaming, structured, and geospatial—into a coherent, single-source-of-truth Dynamic Ontology.

GENERATIVE COGNITION



Moving beyond dashboards to Hybrid AI (semantic, neural, agentic). Answers “why” things happen and predicts “what next” using causal reasoning.

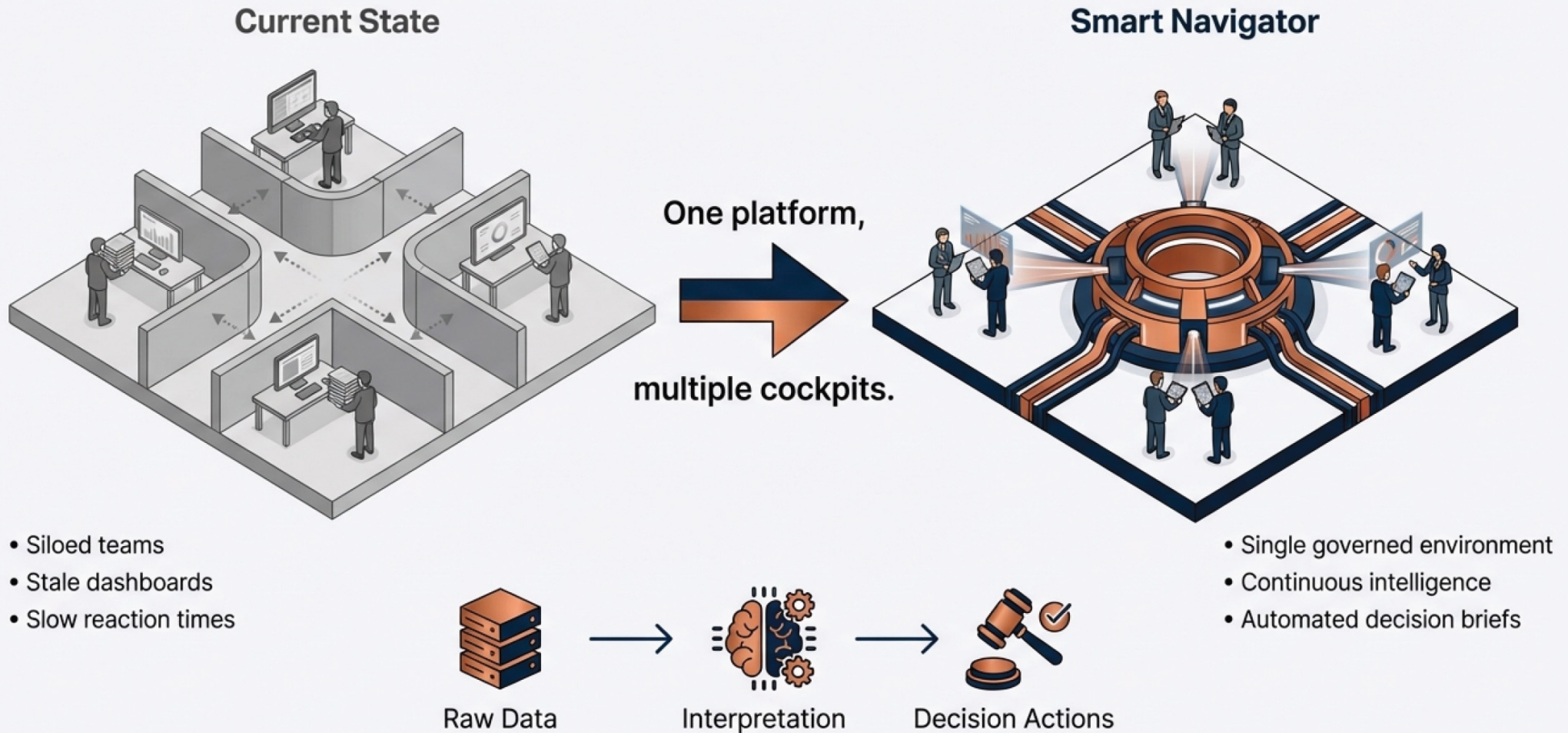
FUTURE-PROOF SECURITY



Integration of Post-Quantum Cryptography (PQC) to protect sovereign data against current breaches and future quantum-enabled adversaries.

Hybrid Core's Flagship – Smart Navigator

The World's First Agnostic, AI-Native & Quantum-Secure Decision Intelligence Ecosystem



The Smart Navigator Ecosystem

Employ as a **full-suite** ecosystem or utilize standalone/sovereign modules powered by Smart Navigator



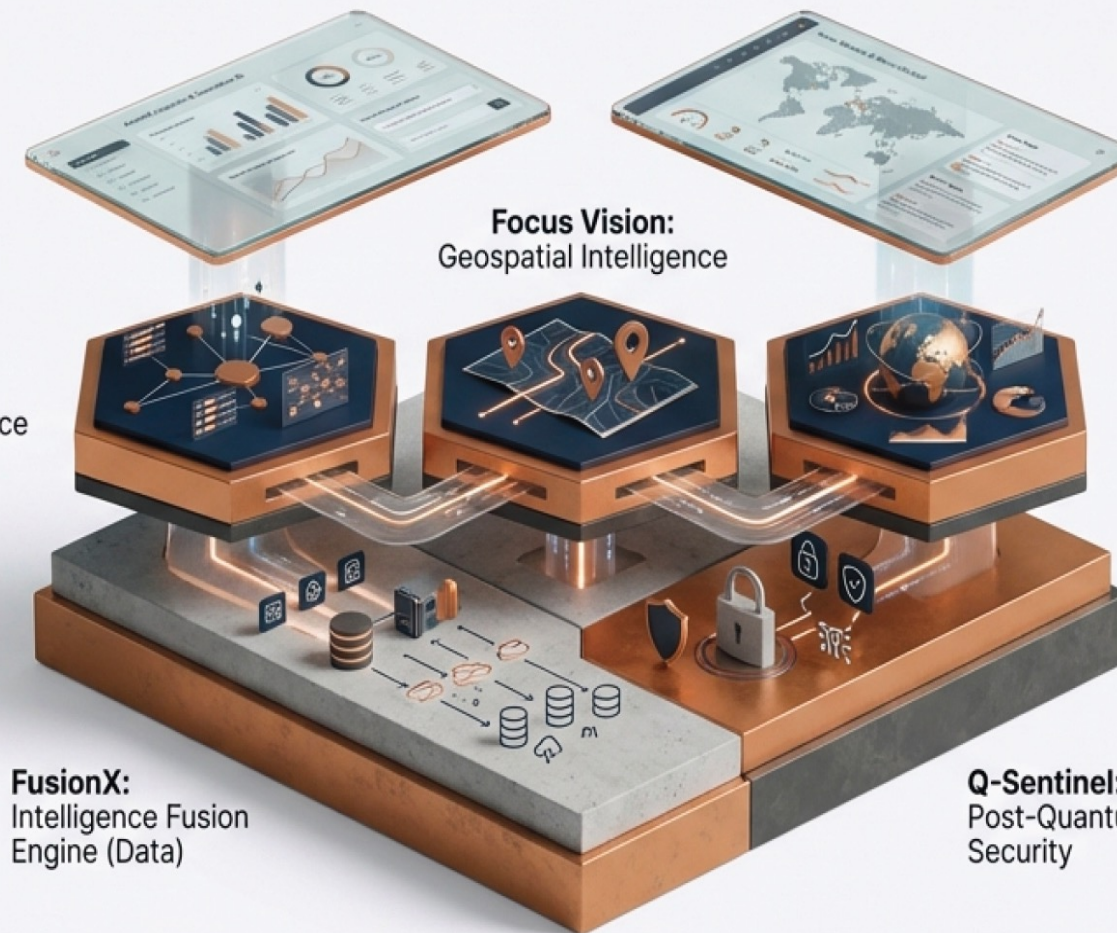
A unified cognitive stack connecting raw data to strategic action



AxionIQ:
Cognitive &
Generative BI

NetCortex:
Network Intelligence

Layer 1 –
The Foundation



Aurex:
Markets &
Macro Cockpit

Synth-Terra:
Synthetic World
Simulation

Layer 1 –
The Foundation

FusionX:
Intelligence Fusion
Engine (Data)

Q-Sentinel:
Post-Quantum
Security

***One ecosystem
on top.
A sovereign
product family
underneath.
Built for decision
superiority
across strategic
sectors.***

Smart Navigator is Unique

From Algorithmic Decisions to Native AI



HYBRID CORE

Legacy Competitors



Hybrid Core's Native AI is
the Convergence of

- ✓ Ontological
- ✓ Semantic
- ✓ Neural
- ✓ Agentic AIs

Smart Navigator is Unique

CLASSICAL ENCRYPTION

AES-256
TLS 1.3
SHA-384



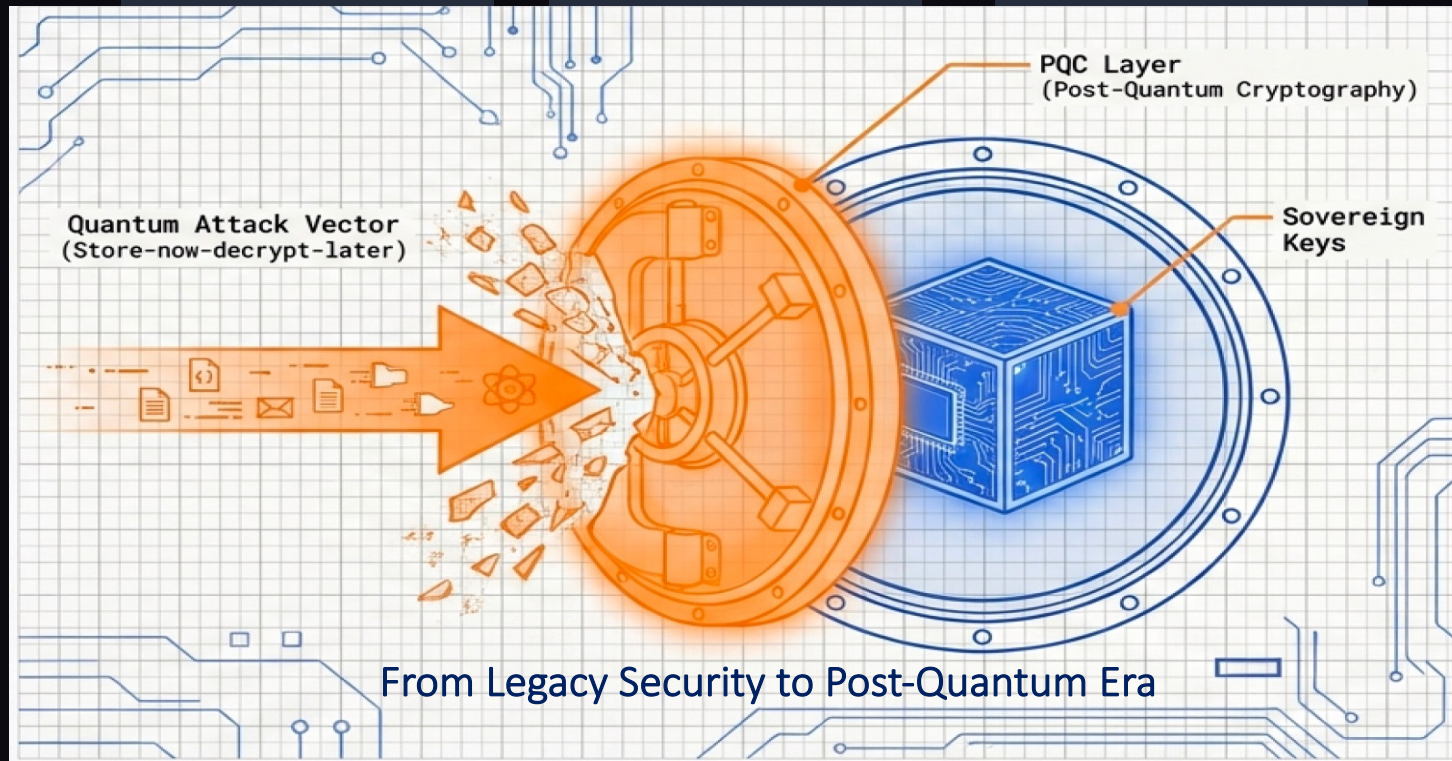
HYBRID LAYER

HAKE
HYBRID TLS
DUAL-SIGNED CERTS



QUANTUM-RESILIENT PQC

KYBER / DILITHIUM
HYBRID X.509
PQC IDENTITY



Hybrid Core: Smart, Secure, Future-Proof Cybersecurity

Hybrid Core is a Belgian deep tech company providing a full spectrum of advanced cybersecurity solutions.

They leverage AI and Post-Quantum Cryptography to deliver next-generation security platforms, services, and training.

COMPREHENSIVE SECURITY SOLUTIONS & SERVICES

AI-POWERED SECURITY PLATFORMS

Q-Sentinel: AI-Driven Security Operations

An advanced encryption and SecOps platform for real-time cloud security.



SelfHack: Automated Penetration Testing

An AI platform for penetration tests, digital twinning, and training simulations.



CyVia: Unified Cloud Defense

An AI-powered virtual SOC designed to secure everything in the cloud.



Future-Proof Encryption

Specializes in Post-Quantum Cryptography to defend against emerging threats.



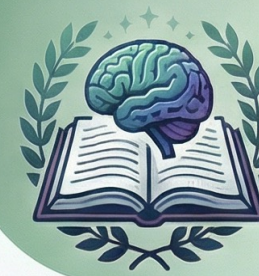
Total Network & Identity Protection

Delivers network security (SASE, Firewalls) and resilient identity management solutions.



Academy & Advisory

Offers threat intelligence, cyber risk management, and blended training programs.



Hybrid Core Cyber Security Solutions Portfolio



MEASURE AND MASTER CYBERSECURITY READINESS

Experience the world of cybersecurity from the owl's vantage point—a Virtual Security Operations Center that simulates real-world scenarios. Powered by AI, our platform hones your abilities to detect, analyze, and respond to threats with precision.



ALERTS ACROSS ALL SECURITY LAYERS

Covering endpoints, network,
cloud, email, and OT&IoT.



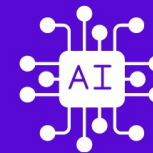
INDUSTRY- SPECIFIC ALERT SCENARIOS

From finance and healthcare to
energy, government, and tech.



INCIDENT TYPES

Including phishing,
ransomware, insider threats,
lateral movement, and
privilege escalation.



DIFFICULTY TIERS

From beginner to expert, designed
for scalable learning and career
growth.

Hybrid Core Cyber Security Solutions Portfolio

selfhack*

SMARTER PENTESTING

POWERED BY AI*



CUSTOMIZABLE SOLUTIONS

Adaptable workflows and reporting tailored to your industry's compliance standards.



AI-DRIVEN PERIODIC PENTESTING

Save time and resources with advanced AI performing comprehensive Web, Mobile, API, VoIP, and DDOS tests. Periodic risk scoring and detailed reports provide actionable guidance to strengthen your defenses.



TARGETED EMPLOYEE TRAINING














































Personalized learning paths based on identified vulnerabilities, boosting team readiness. Contact us to learn more.






































PROACTIVE THREAT ANALYSIS

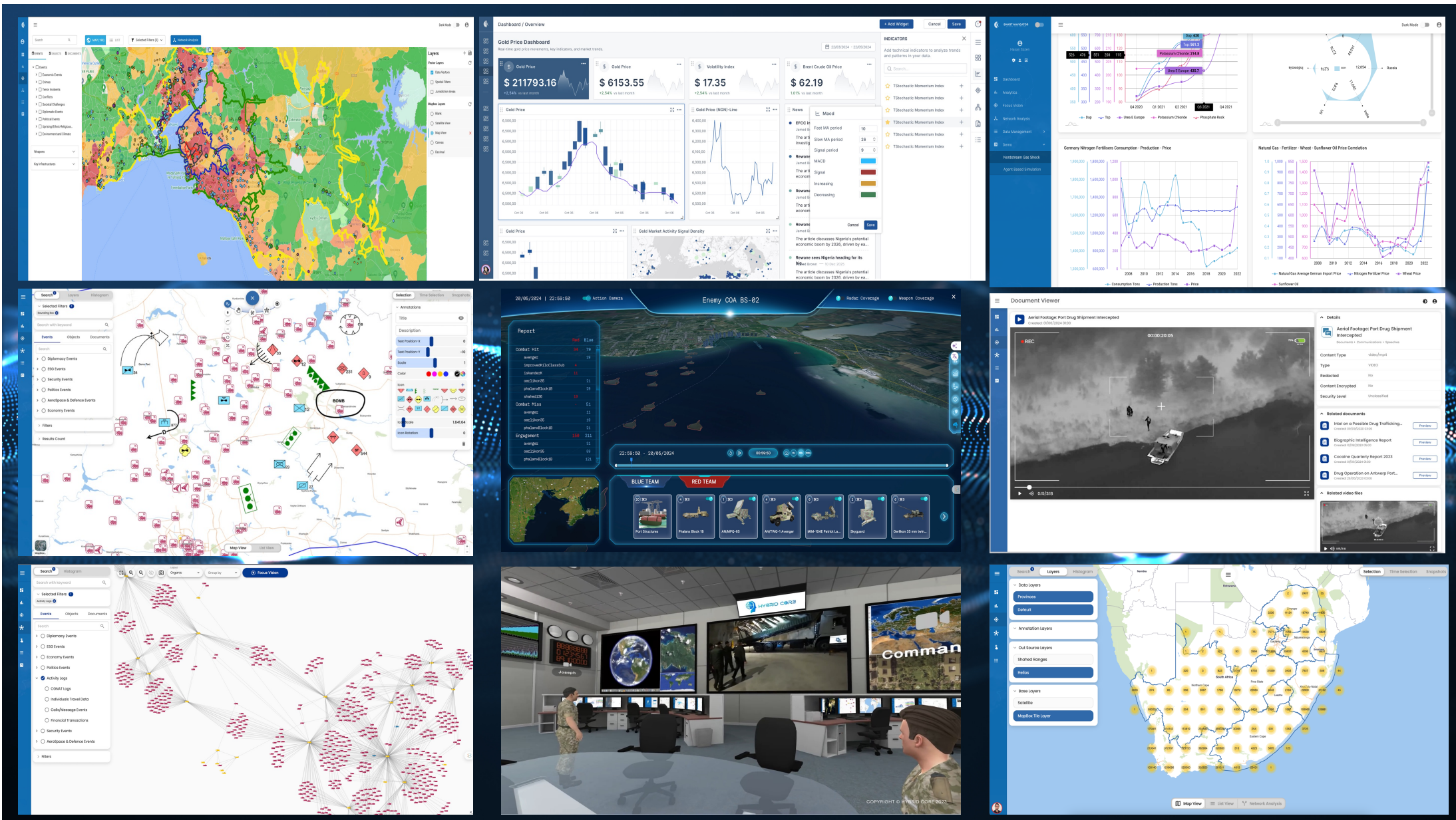
Advanced big data analytics and AI consultants to predict and mitigate risks before they become critical.

Competitors

Core Capabilities	Hybrid Core	Palantir	Thales	(IBM) i2	DataWalk
Native AI (Semantic + Neural + Agentic)	 Unique & Native	 Partial	 Limited		 Partial
Dynamic Ontology & Adaptive Intelligence	 Unique & Native	 Partial	 Limited		
Multi-Layered Network Intelligence (Links)	 Advanced			 (legacy)	
Real-Time Fusion & Streaming Analytics	 Full + Generative	 Full	 Full	 Partial	 Partial
Predictive Intelligence & Early Warning	 Full + Generative		 Limited		
Dynamic Multi-Agent Simulation	 Unique & Native	 (static sims)	 (defence-specific)		
Digital Twins & VR/AR Mission Support	 Unique & Native	 Partner-based	 Limited		
PQC / Quantum-Resilient Security	 Integrated + HSM				
EU/Local Sovereign Deployment	 Strong	 Partial	 Strong		

Competitors

Strategic Benefits (Business Values Matrix)	Hybrid Core	Palantir	Thales	(IBM) i2	DataWalk
Cross-Domain Data Fusion & Adaptive Intelligence	 Unique	 Advanced		 Limited	
Operational Excellence	 Unique			 Limited	 Limited
Future-Proof Crisis, Risk, Opportunity Foresights	 AI+Simulation				
Unlimited Use Case Evolution	 Agnostic & Scalable	 Limited	 Limited		
Human-Machine Interactions	 Advanced	 Limited	 Limited		
Sovereign Security & EU Compliance	 Integrated		 Integrated	 Integrated	 Limited
Flexibility, Scalability & Sustainability Enablement	 Ecosystem				



B2G

Use Case Examples



Multi-Domain Operations & Wargaming



Critical Infrastructure Protection (+ Cyber)



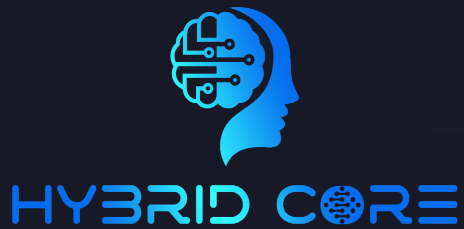
Smart Border Security and Management



Predictive Disaster/Crisis Management



**Predictive Law Enforcement & Counter
Organized Crime**



B2B

Use Case Examples



**Predictive Logistics &
Supply Chain Optimizations**



Crisis Simulation & Emergency Response



**Early-Warning Risk Intelligence &
Predictive Financial Intelligence**



Smart Grid Management & Optimizations



Intelligent Cities, Intelligent Ports ...



HYBRID CORE



Succes Stories

Some References



- ✓ 5 EU Contracts
- ✓ 1 Ongoing Pilot (USA)
- ✓ 2 Contracts (UK)
- ✓ 1 Contract (Nigeria)
- ✓ 1 Contract (UAE)
- ✓ +10 Ongoing Deals (EMEA)



HYBRID CORE



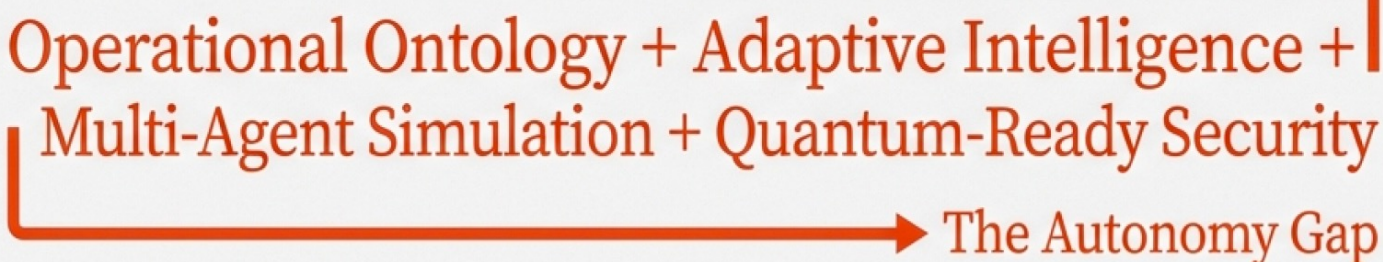
The Genesis of a Smart, Quantum-Secure, and Future-Proof Digital Era

Hybrid Core: The Evolution of Operational AI

From Ontology-Driven Operations to Secure, Adaptive Autonomy.

Palantir = Operational Ontology

Hybrid Core = Operational Ontology + Adaptive Intelligence +
Multi-Agent Simulation + Quantum-Ready Security



→ The Autonomy Gap

Palantir proved the category of ontology-driven operations.
Hybrid Core defines what comes next: the transition from passive
copilots to super-intelligent operators.

The Market Has Validated the Category. Now it Demands the Next Layer.

THE VALIDATION (PRESENT)



THE DRIVER (SHIFT)



THE SOLUTION (FUTURE)



From Ontology-Driven Operations to Secure, Context-Aware Autonomy.

THE BASELINE

Palantir successfully defined the category of ontology-driven operations across defense, government, and critical infrastructure. Accenture's expanded partnership confirms this category is now mainstream.

THE EVOLUTION

As AI moves from "Copilots" (assistants) to "Operators" (autonomous agents), clients require a new architecture.

THE DEFINITION

Hybrid Core is the platform for this next phase, delivering context, simulation, and secure autonomy.

The Incumbent Baseline: Operationalizing Real-World Entities.

The Standard Ontology Model



Raw Data



Object (The Entity)



Action (Workflow)

Gotham / Foundry Architecture

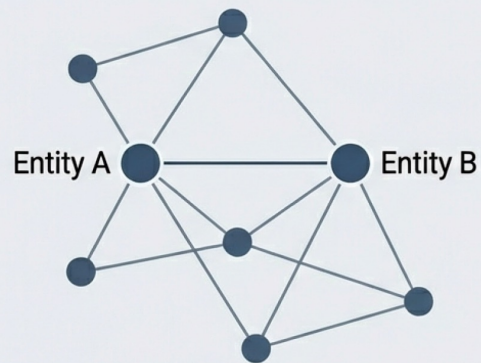
Gotham and Foundry succeeded because they moved beyond rows and columns. They operationalize real-world entities and workflows through an ontology-centered model.

Palantir's AIP pushes this model into agentic AI, connecting the ontology to enterprise execution patterns.

THE PIVOT: Ontology helps you understand “what exists” and “how it is connected.” But this architecture was not built for the complexity of autonomous decision-making.

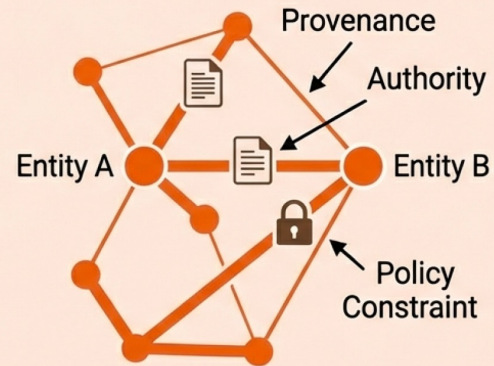
As AI becomes autonomous, the core question shifts from "How is this connected?" to "Why is the system recommending this action?"

Standard Knowledge Graph



Who knows who

Hybrid Core Context Graph



Who is allowed to know who, and why

From Ontologies to **Adaptive Intelligence** Through Dynamic Ontologies & Context-First Architecture

Operator

Hybrid Core Context Graph



AI bot

Provenance Check

Policy Constraints

Audit Log

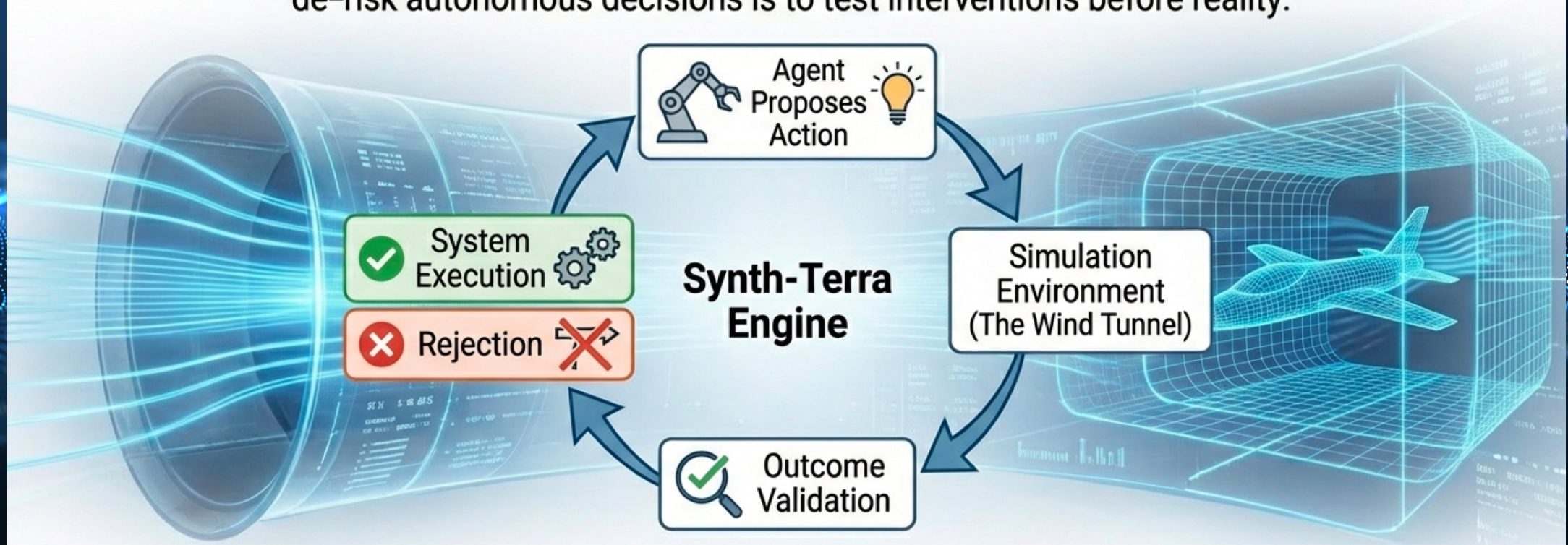


Critical Infrastructure

AI Decides, System Executes (Protected)

Automation Executes. Simulation Decides.

Agentic AI is not the hard part. The hard part is safe autonomy. The only scalable way to de-risk autonomous decisions is to test interventions before reality.



Feature: Synth-Terra

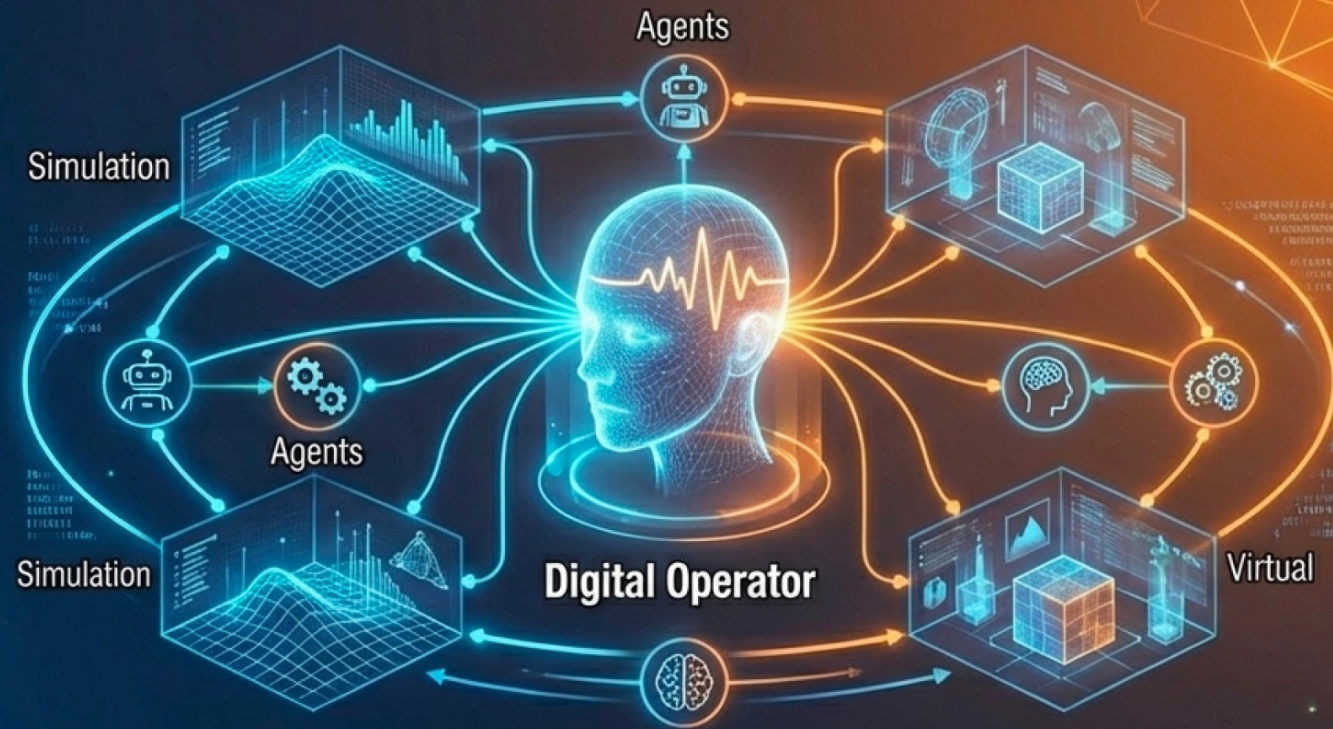
A dedicated multi-agent simulation engine as a first-class module.

Business Impact

Positions Hybrid Core for high-value transformation programs focused on resilience and mission assurance.

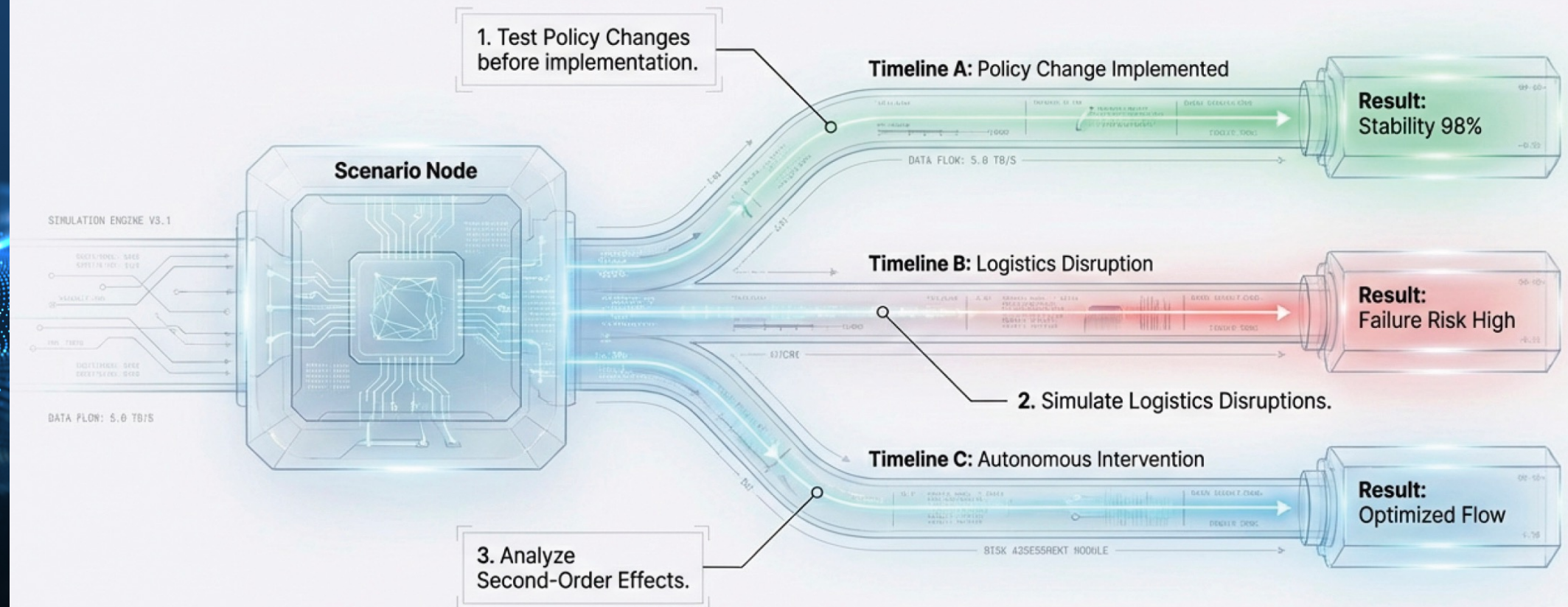
From Copilots to Super-Intelligent Operators.

- **The Requirement:**
Traceable Context.
- **The Requirement:**
Governed Autonomy.
- **The Requirement:**
Stress-tested outcomes
before deployment.



**Palantir proved the category.
Hybrid Core defines the next AI-native architecture.**

Synth-Terra: A first-class engine for multi-agent scenario testing



Problem: You cannot deploy autonomous agents based on probability alone. Synth-Terra allows for the testing of “interventions” in a safe environment, de-risking the Operator model.

Modular Adoption Strategy Reduces Political and Financial Friction.

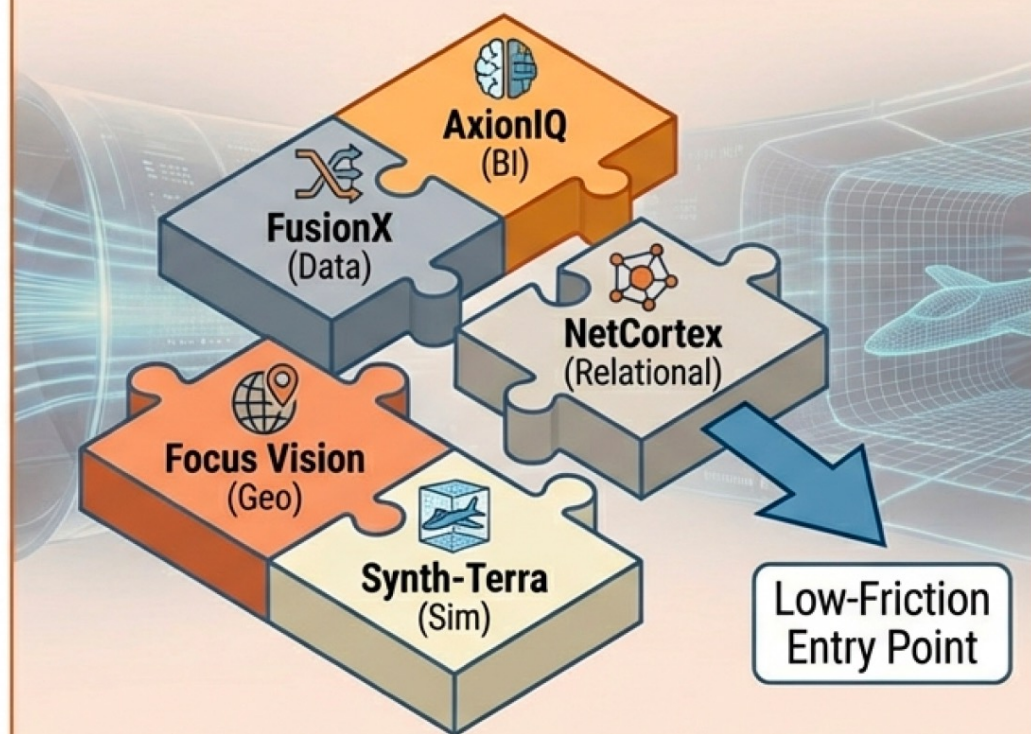
The Platform Friction.

Palantir often lands as a monolithic platform decision.
This is a heavy lift politically and architecturally.



The Hybrid Wedge (Smart Navigator)

Hybrid Core is designed to "Land and Expand."
Buying a module is easier than buying a platform.



Security as a Procurement Gating Criteria, Not a Feature.

Defense and critical infrastructure buyers are moving toward “Confidential AI”.

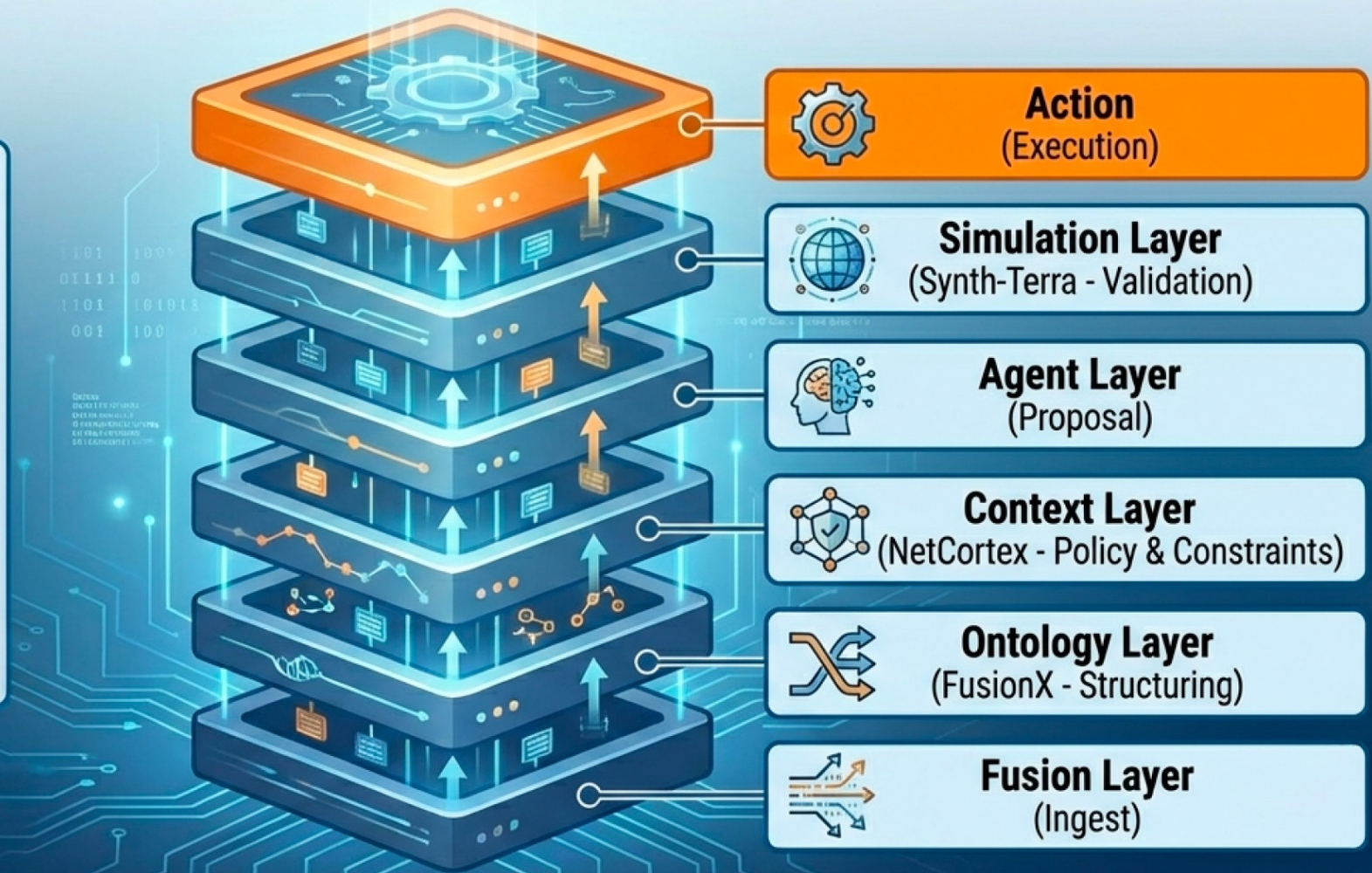


Key Insight: We treat security architecture as the primary hurdle for adoption, ensuring we pass the strictest government gates from Day 1.

The Hybrid Core Architecture: The Next AI-Native Operating Layer.

This flow enables the transition from data visibility to simulation-validated decisions.

Post-Quantum Security designed in from day one.



Palantir (Gotham / Foundry / AIP)	Hybrid Core (Smart Navigator Ecosystem & Standalone Product Family)	Core Differentiators of Hybrid Core
Ontology-first operations (objects/links/actions)	Dynamic ontologies & Context-first (living, versioned meaning that evolves)	From static meaning → adaptive intelligence (Otherwise, AI doesn't break when reality shifts)
Agents connected to operations	Rules, Policies & Hybrid AI (semantic + neural + agentic, bounded by domain constraints)	From “agents” → super intelligent operators understanding the context (explainable, controllable actions)
Decision support & execution (what-if depends on apps/models)	Multi-agent simulation (Synth-Terra) Synthetic world simulation engine	From “automate” → “prove outcomes” (stress-test before real-world action)
Strong security posture (platform controls)	PQC / crypto-agility (Q-Sentinel) designed-in	From today's security → future-proof trust (post-quantum procurement advantage)

Palantir operationalizes reality. Hybrid Core operationalizes the future: adaptive intelligence + governable autonomy + simulation-validated decisions + post-quantum trust.