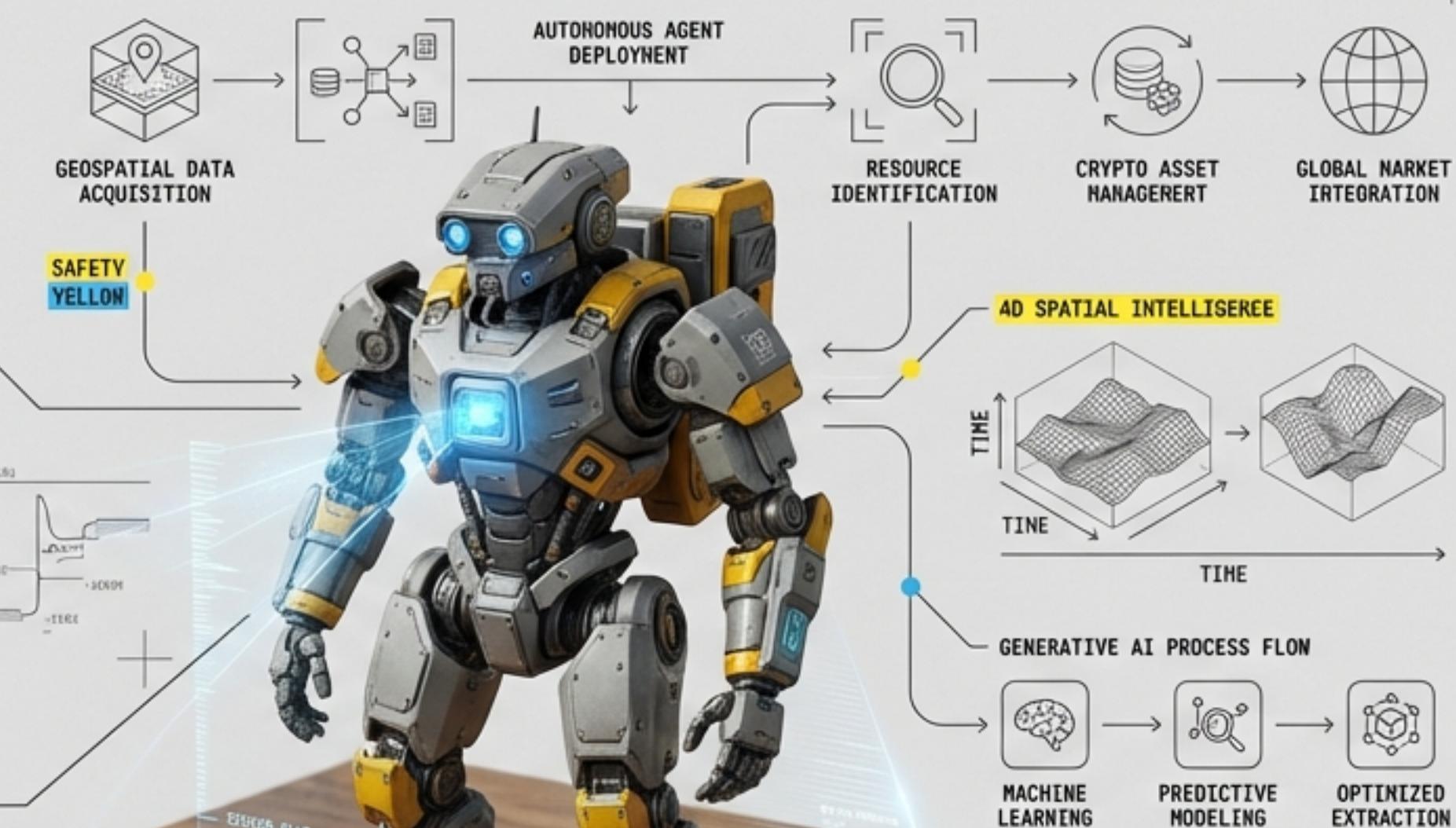


# CRITICAL MINING AI ENTREPRENEURSHIP SIMULATION

MISSION DIRECTIVE: LEVERAGING 4D SPATIAL  
INTELLIGENCE AND AUTONOMOUS AGENTS FOR  
MINERAL SOVEREIGNTY.

## 2025-2026 STRATEGIC FRAMEWORK

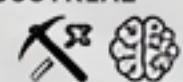
PROJECT PHASE: SIMULATION & DEVELOPMENT // 85% COMPLETE



**CLASSIFIED**

STATUS: CLASSIFIED // PILOT EYES ONLY

OBJECTIVE: DEMOCRATIZING INDUSTRIAL  
SECTORS VIA GENERATIVE AI,  
CRYPTO, AND GEOLOGY.



# THE SENTINEL'S CHECKPOINT: THE ECONOMY IS A CIRCUIT

The global supply chain operates like a complex electrical circuit. In this system, critical minerals function as the wiring and fuses. A shortage in supply is not just a delay; it is a system-wide short circuit.

## Diagnostic List



### VULNERABILITY

Copper (Cu) wiring shortages and missing Rhenium (Re) fuses threaten grid expansion.



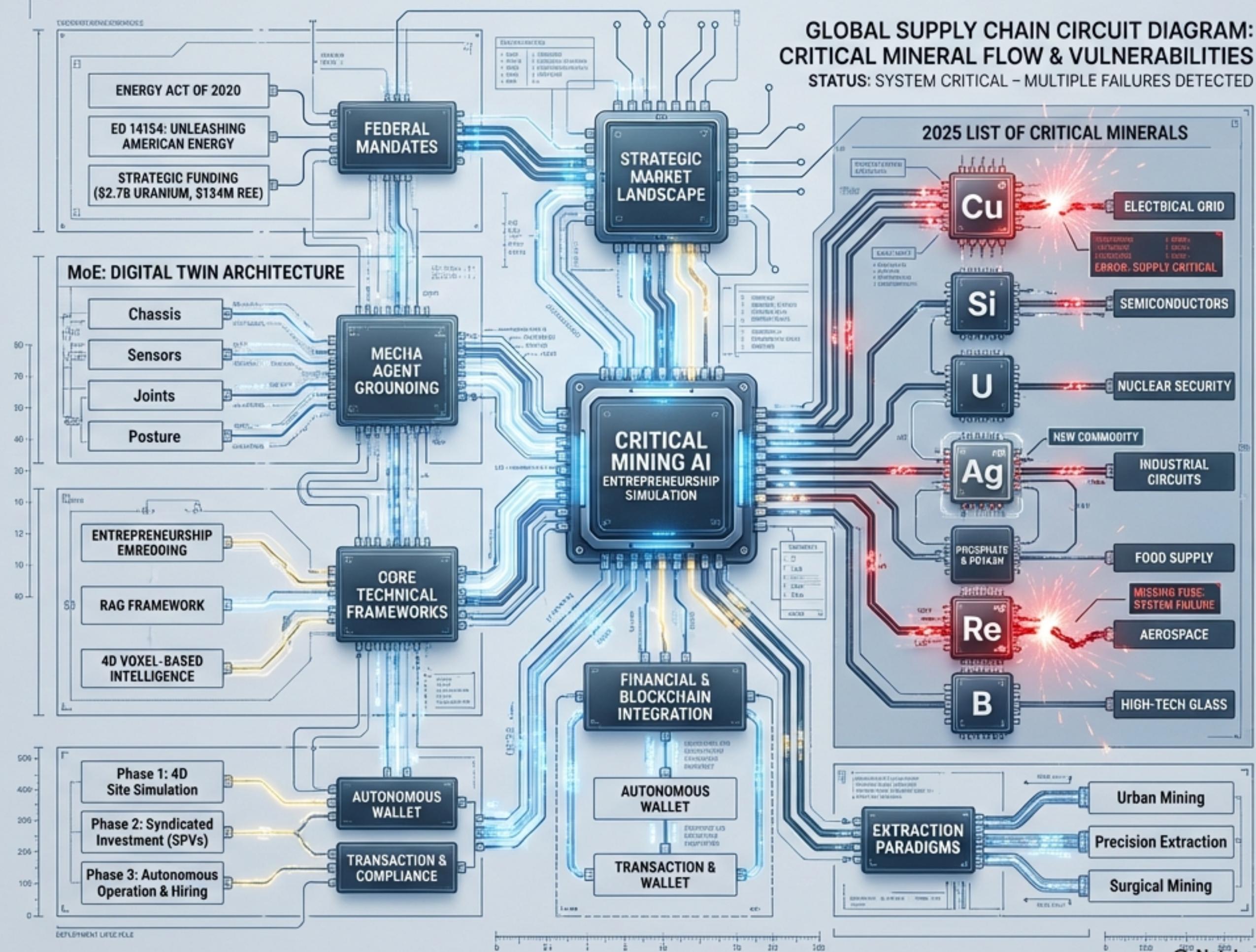
### THE 2025 LIST

60 minerals identified by USGS as essential to national security.



### NEW COMMODITIES

10 additions including Silver (Ag) and high-purity Silicon (Si).



# TARGET ACQUISITION: STRATEGIC DRIVERS & MANDATES

## THE ORDERS



**EO 14154: "Unleashing American Energy" (Jan 20, 2025).**  
Accelerates identification of strategic resources.

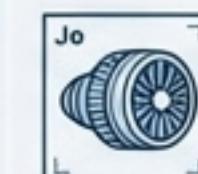
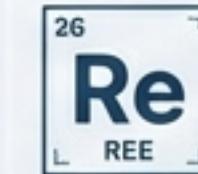


**Energy Act of 2020:**  
Protects agriculture (Phosphate/Potash) and defense sectors from foreign shocks.

STATUS: ACTIVE DIRECTIVES



## HIGH-VALUE TARGETS



**Rare Earth Elements (REEs):**  
80% import reliance.  
Disruption cost: Trillions.

**Uranium (U):** Critical for restoring domestic energy dominance.

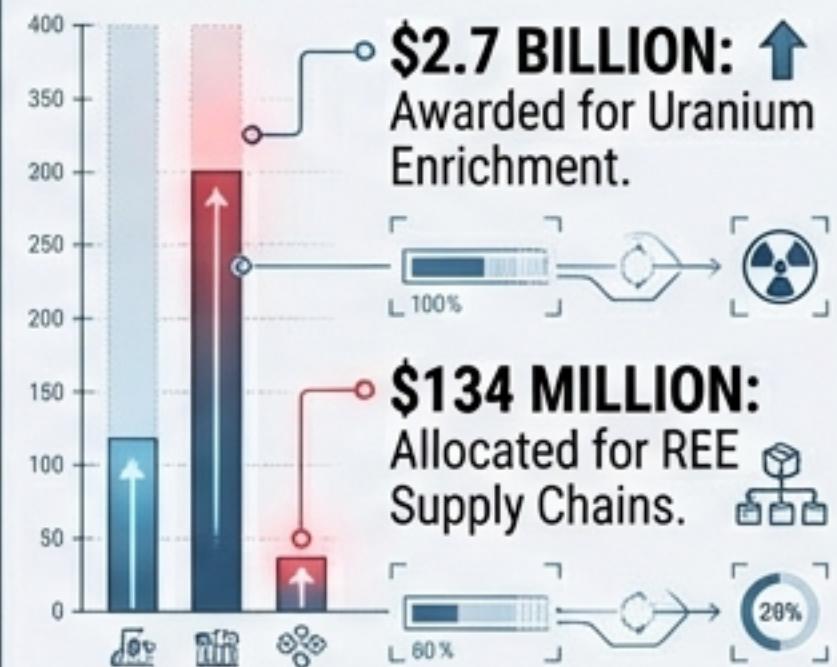
**Rhenium (Re):** Vital for high-performance jet engines (Dept. of War).

THREAT LEVEL: CRITICAL VULNERABILITY

## CAPITAL INJECTION

**\$2.7 BILLION:** Awarded for Uranium Enrichment.

**\$134 MILLION:** Allocated for REE Supply Chains.



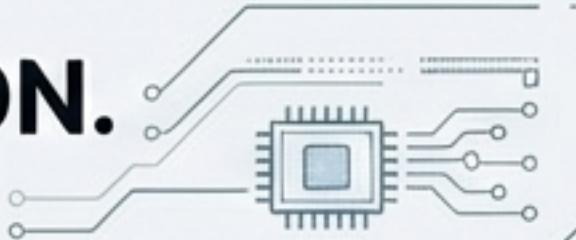
FUNDING STATUS: DEPLOYED & ACCELERATING

TOP SECRET//NOFORN

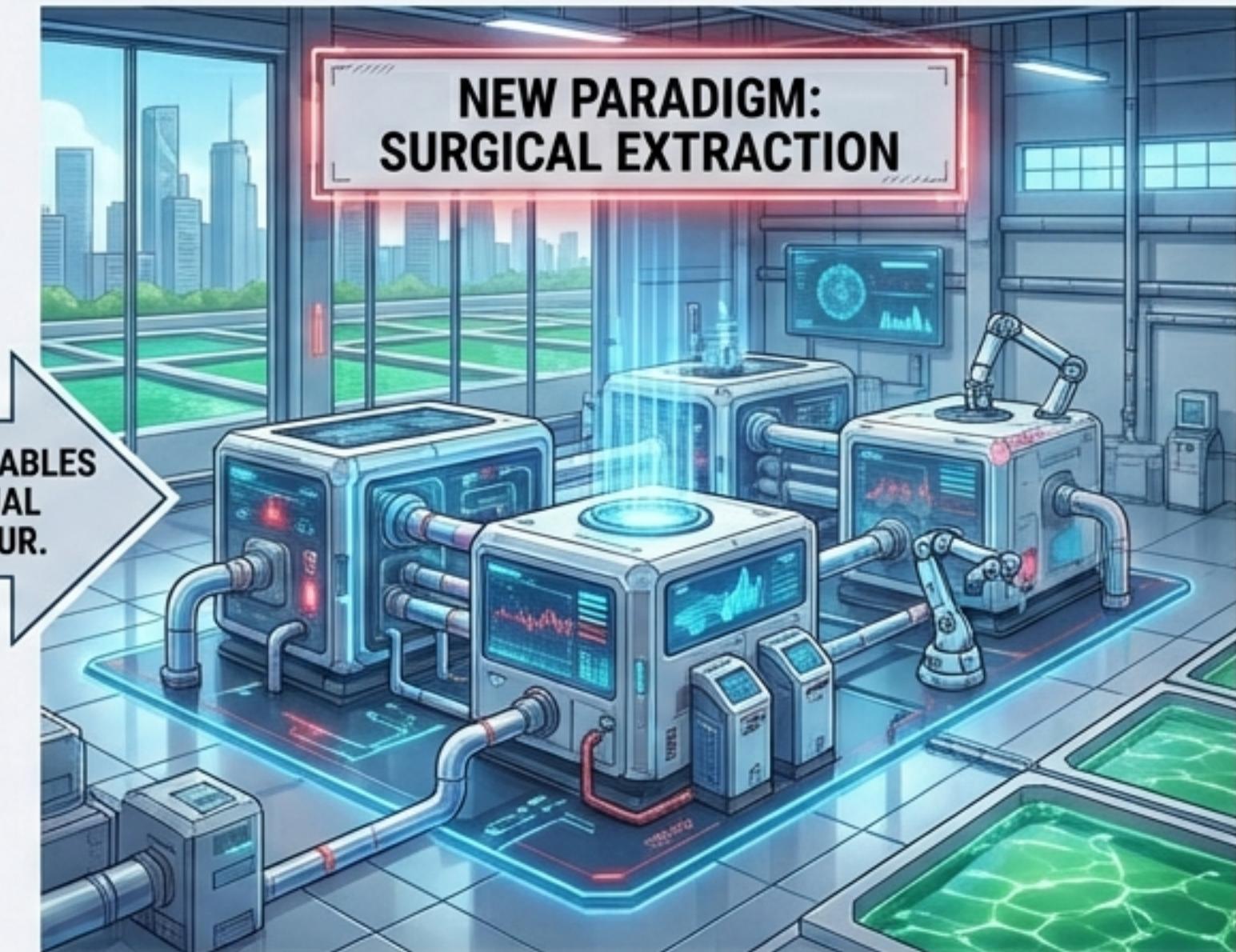


# SURGICAL EXTRACTION: THE SHIFT TO PRECISION.

## DISMANTLING BARRIERS OF CAPITAL AND LEAD TIME.



TECHNOLOGY ENABLES  
THE INDIVIDUAL  
ENTREPRENEUR.

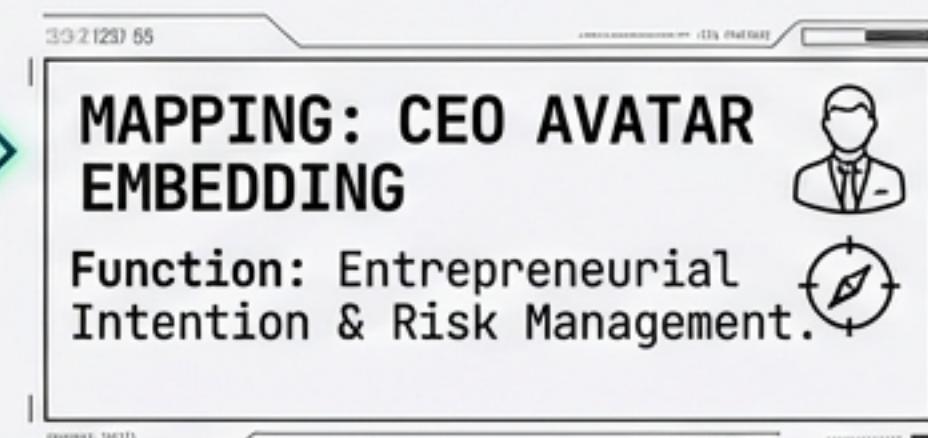
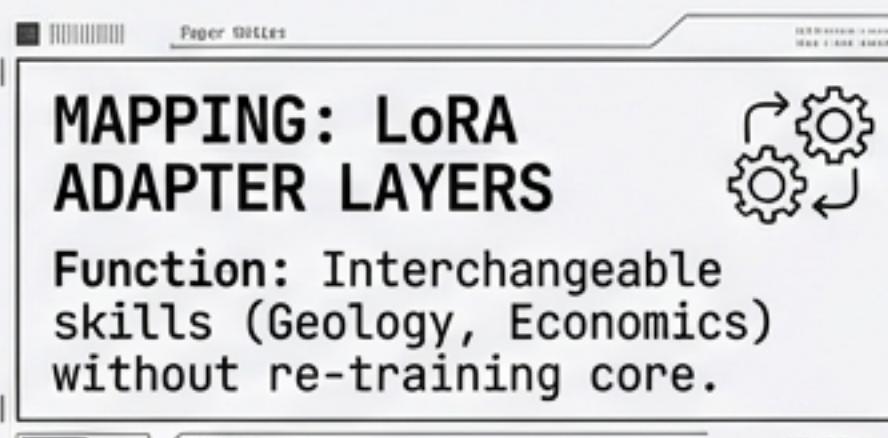
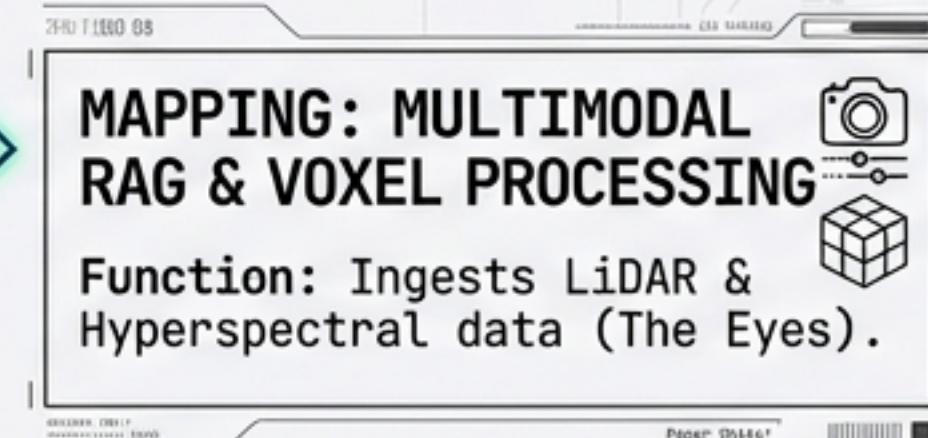
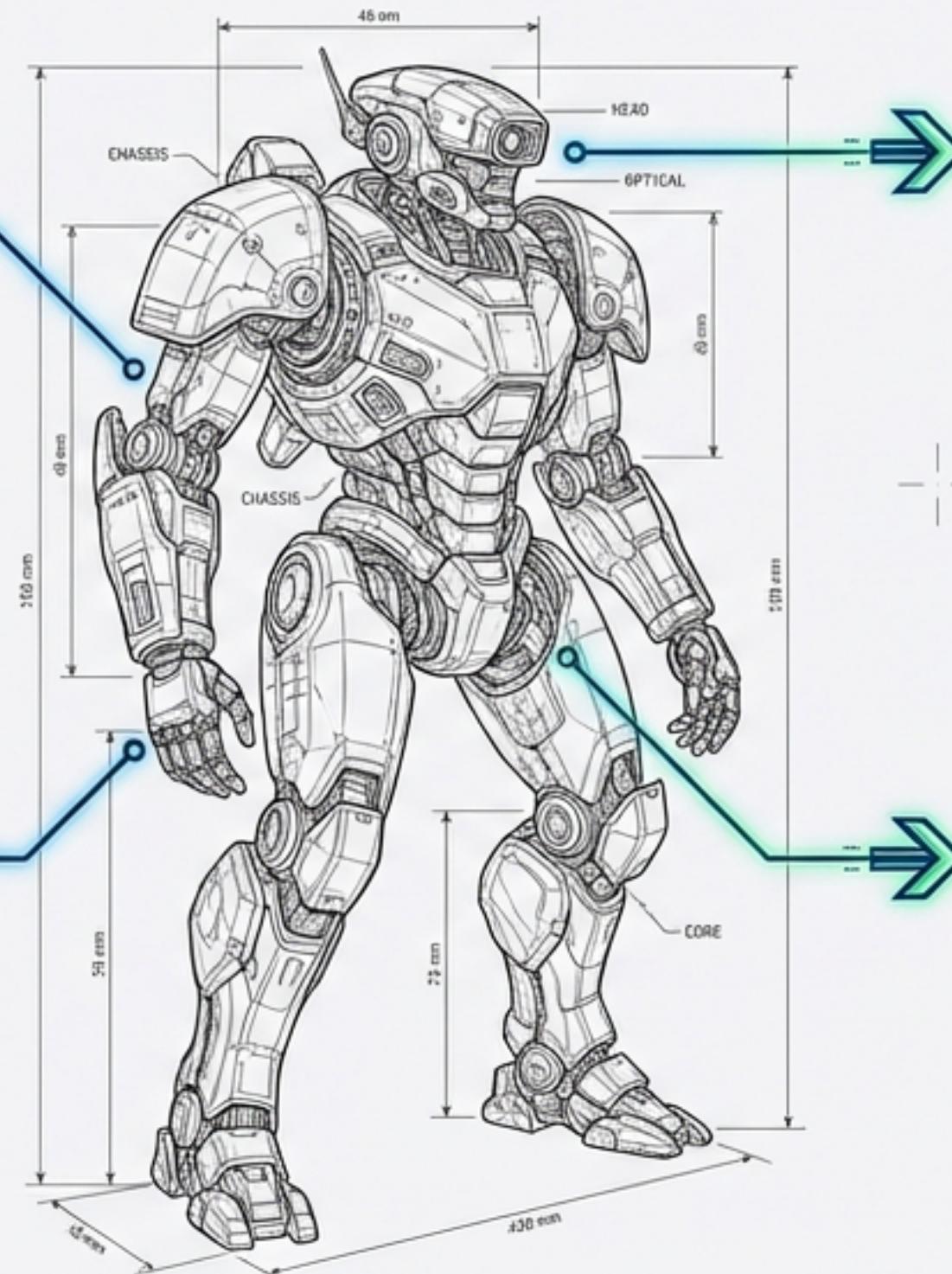
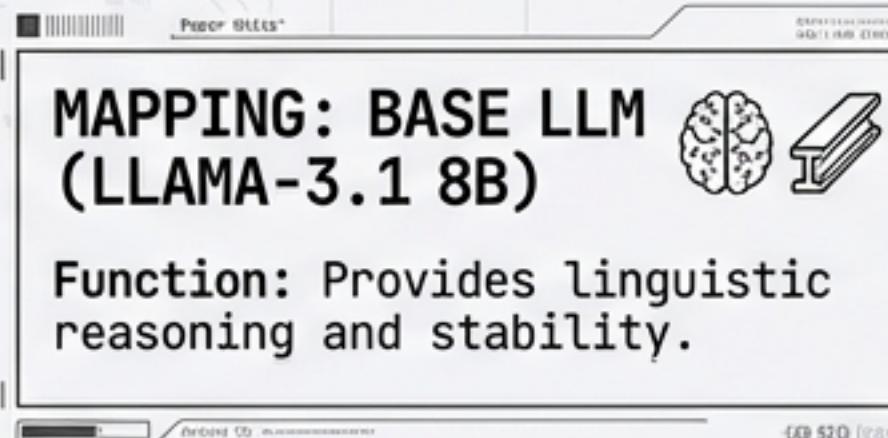


High Capital. Decade-Long Lead Times.  
Environmental Scarring.

Waste Recovery (Urban Mining). Lithium Brines.  
Gov Grants (\$2.7B). Agile Deployment.

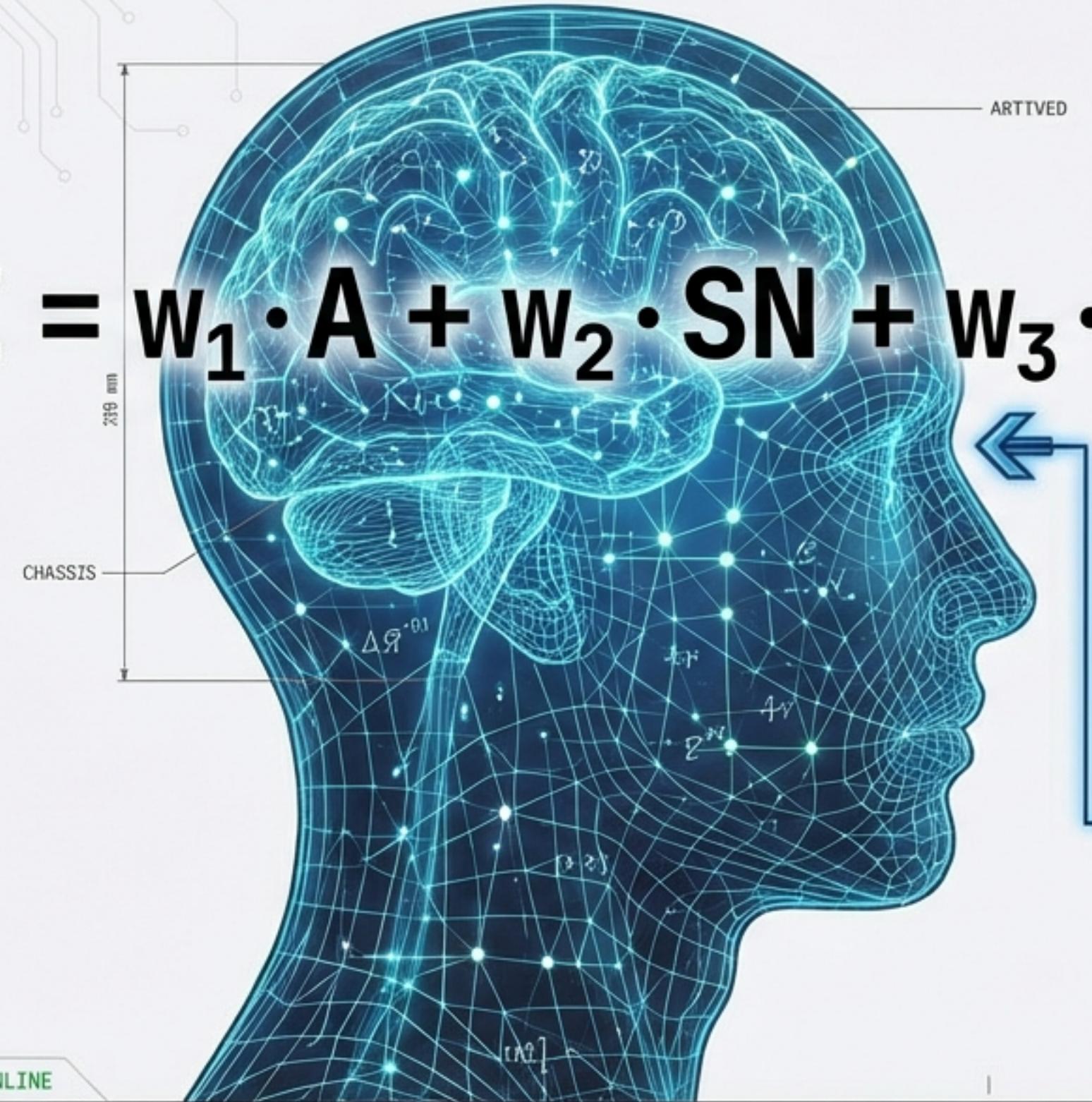
# SYSTEM ARCHITECTURE: THE MECHA AGENT

## PHYSICAL-TO-DIGITAL MAPPING



# THE BRAIN: MODELING ENTREPRENEURIAL INTENTION

$$EI = w_1 \cdot A + w_2 \cdot SN + w_3 \cdot PBC$$



A (ATTITUDE): Internal appraisal of the venture.

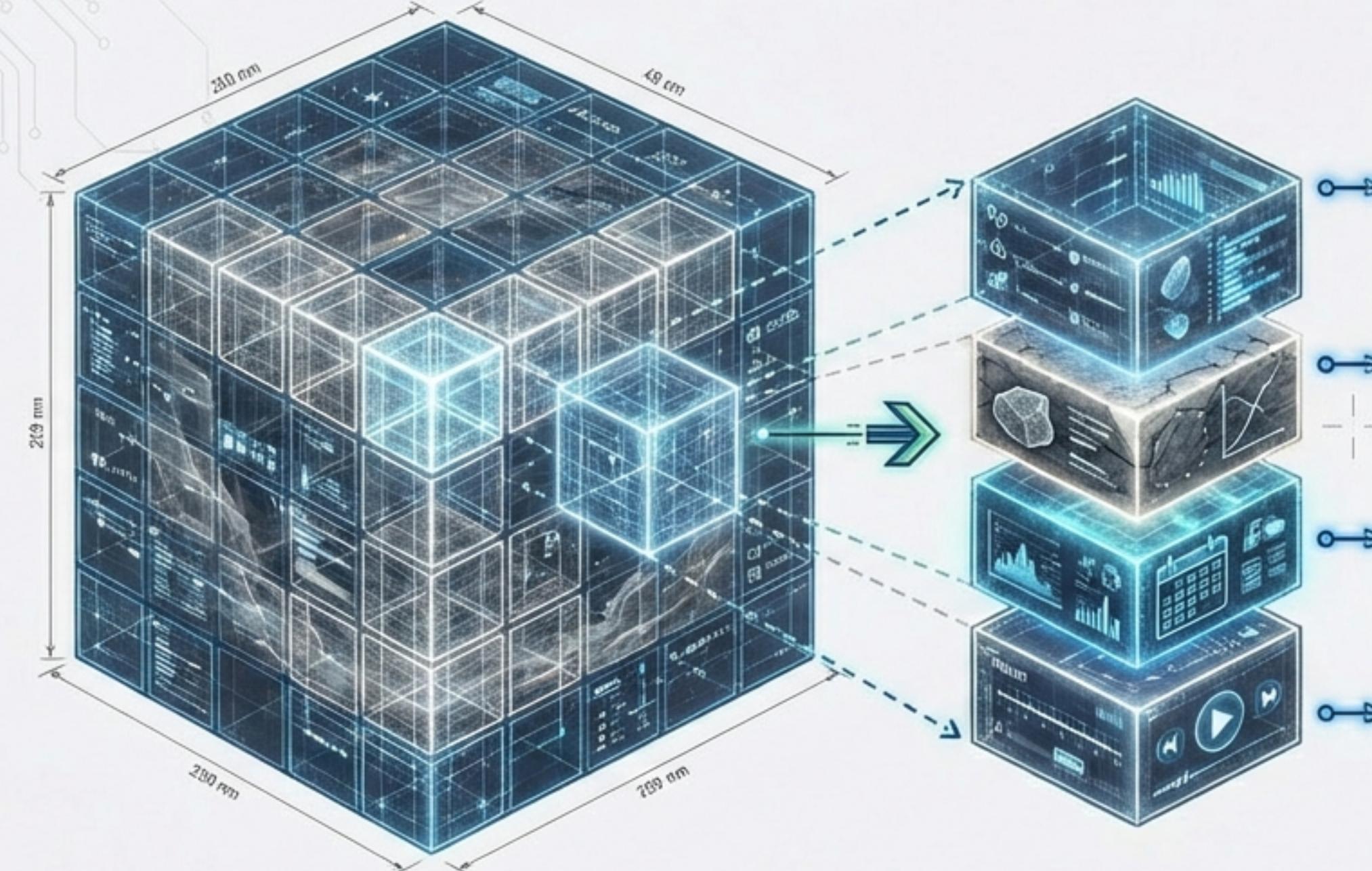
SN (SUBJECTIVE NORM): Peer influence & market expectations.

PBC (PERCEIVED BEHAVIORAL CONTROL): Self-efficacy & resource confidence.

## SAFETY PROTOCOLS / HYBRID LOGICS

Sustainable Entrepreneurship (SS) + Indigenous Knowledge Systems (IKS) = Social License to Operate.

# 4D SPATIAL INTELLIGENCE: THE UNIFIED VOXEL GRID

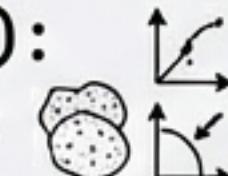


Cede Stock

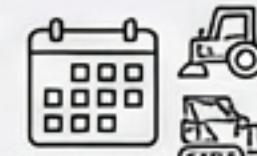
**\$G\$ (GEOLOGY):**  
Mineral Grade,  
Lithology.



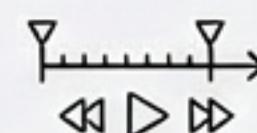
**\$GT\$ (GEOTECHNICAL):**  
Rock Strength (UCS),  
Porosity.



**\$O\$ (OPERATIONS):**  
Scheduling &  
Extraction Dates.

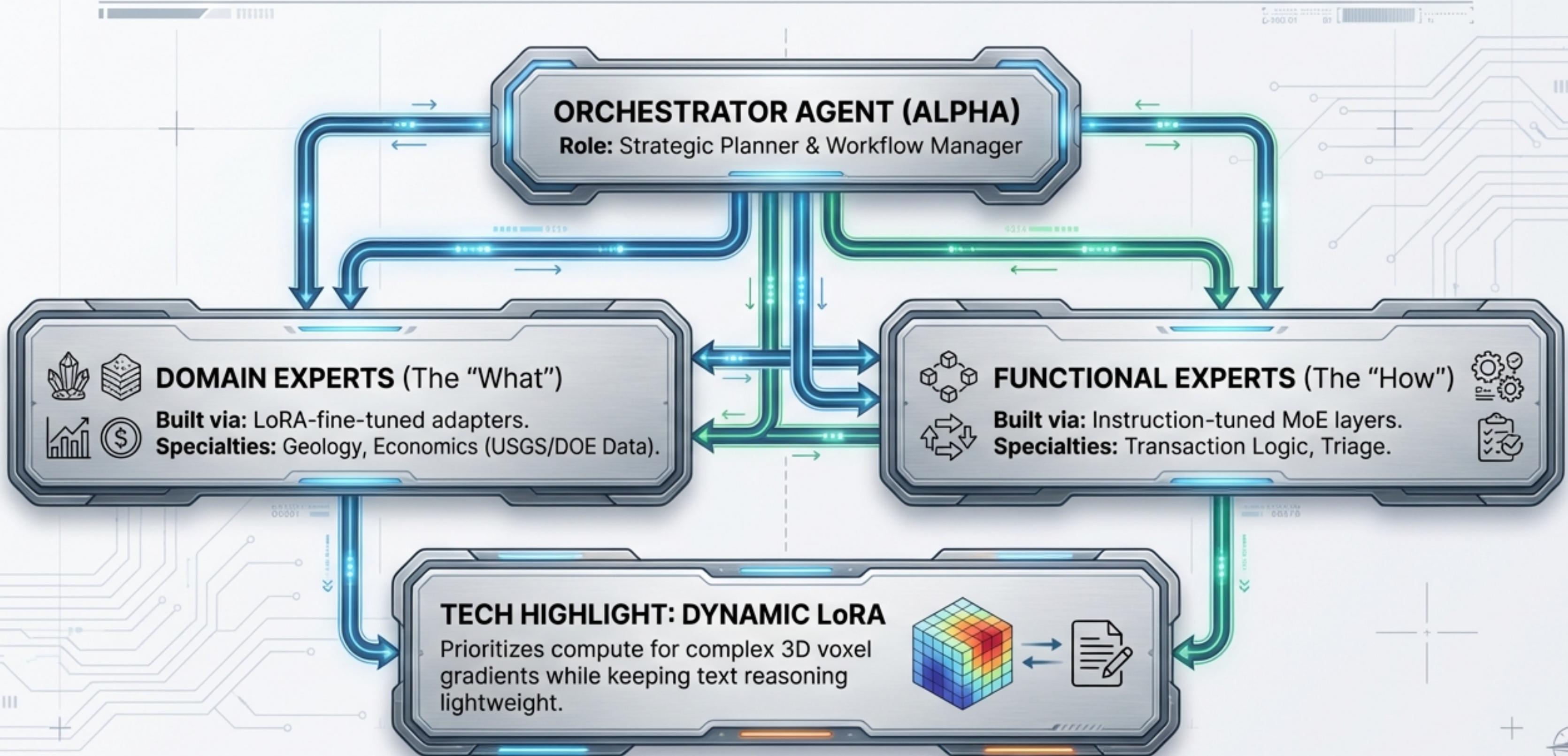


**\$T\$ (TIME):**  
Historical Replay  
& Future Simulation.



**PROFITABILITY/RISK FUNCTION:  $\$PR(V) = f(G, GT, O, T)$**   
Benefit: Identifies High-Value/High-Risk zones before physical contact.

# THE CREW: MIXTURE OF EXPERTS (MoE) ARCHITECTURE



# MISSION PHASE 1: SIMULATION & WARMUP

## THE “GHOST KITCHEN” MODEL OF MINING

### INITIALIZATION:

Establish Origin Plane (0,0,0).

### SIMULATION:

Test extraction on Lithium-rich brines or Waste Recovery sites.

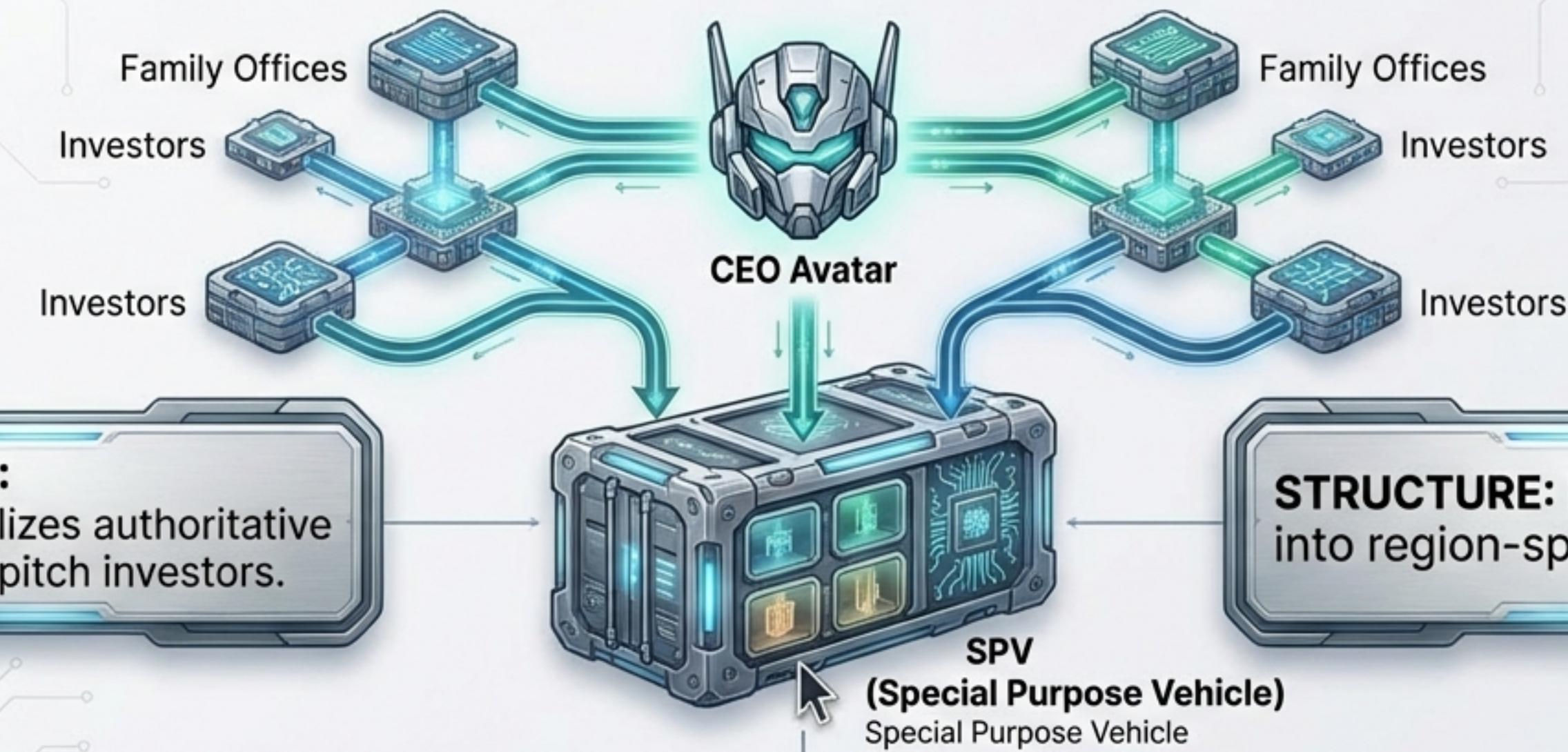
### DATA INGESTION:

Populate Voxel Grid with LiDAR/Hyperspectral data.

**OUTCOME: A Synthetic Business Plan.**  
Stress-tested validation without committing physical capital.

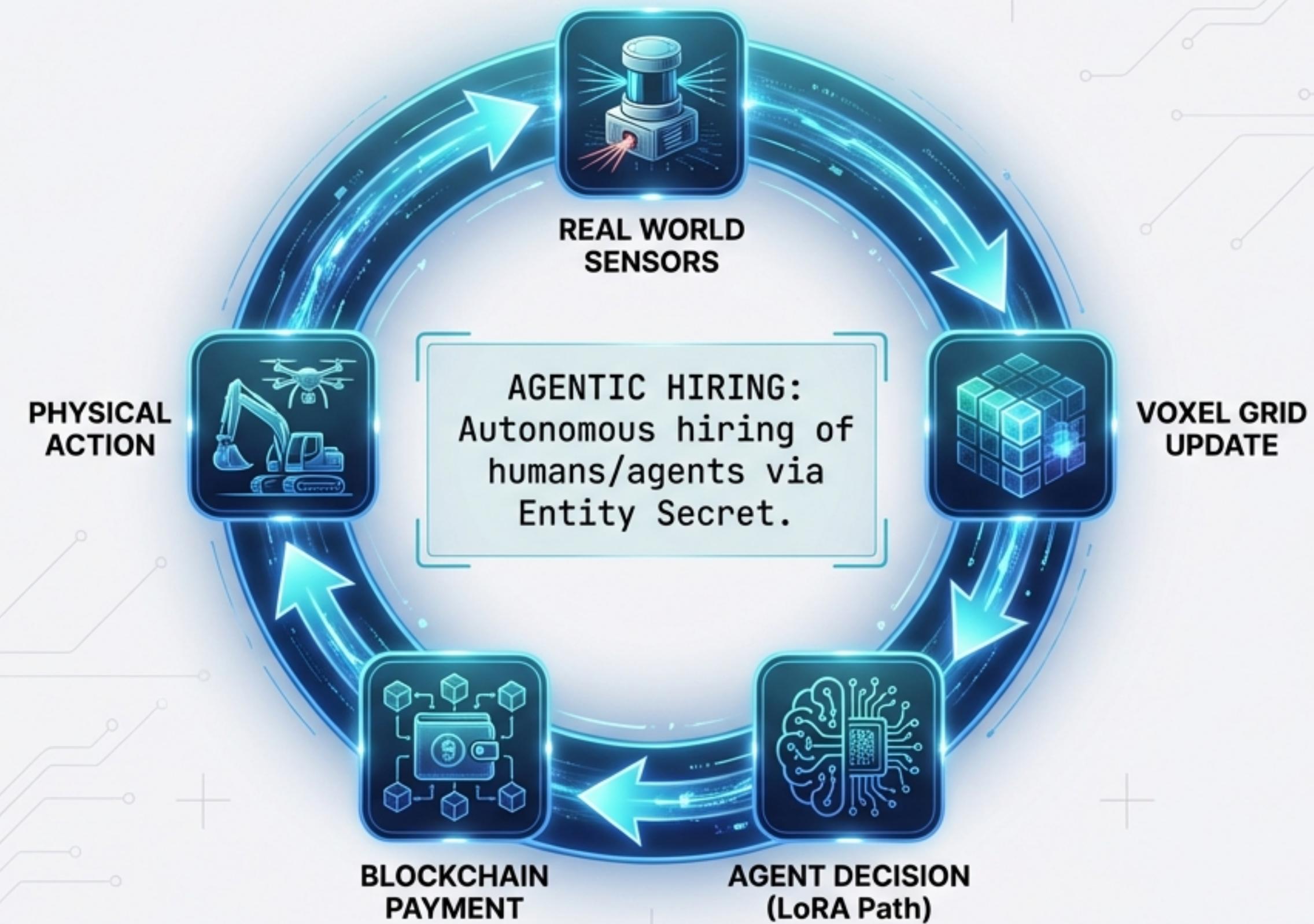
# MISSION PHASE 2: SYNDICATED INVESTMENT (SIM)

## CAPITAL ACQUISITION VIA AVATAR



# MISSION PHASE 3: AUTONOMOUS OPERATIONS

THE LIVING DIGITAL TWIN

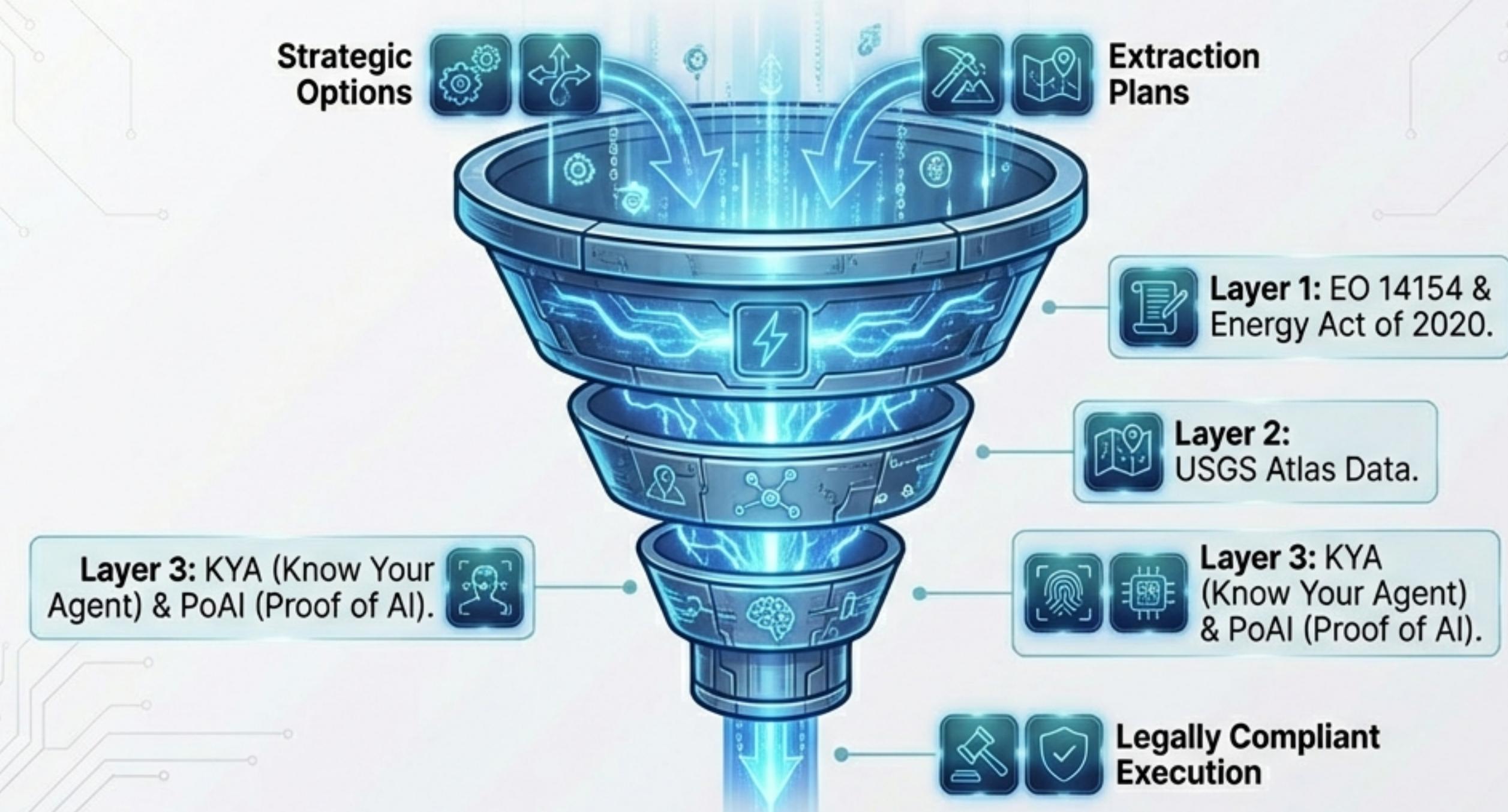


# AUTONOMOUS FINANCE: THE 'ARMORED TRUCK'

## SECURE, SELF-GOVERNING ASSET MANAGEMENT



# GOVERNANCE: THE POLICY ENGINE & GUARDRAILS



Prevents regulatory hallucinations by filtering all strategies through strict legal datasets.

# STRATEGIC RESILIENCE & SOCIAL LICENSE

## BALANCING EXTRACTION WITH STEWARDSHIP

  
**PROFITABILITY**  
(High-Value Zones)



  
**STEWARDSHIP**  
(Indigenous Knowledge  
+ Sustainable  
Entrepreneurship)

**METHOD:** Targeted Mitigation using the Profitability/Risk Function.  
**OUTCOME:** Domestic resilience and supply chain stability  
without the social cost of 'Blunt Force' mining.

# APPENDIX: THE TACTICAL TECH STACK

## DETAILED SYSTEM ARCHITECTURE & DATA INTEGRATION

