AI Mining Intelligence Platform

The Operating System for Critical Mineral Exploration

Powered by Tungsten AI

Predict | Optimize | Produce

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THE PROBLEM

Mining Exploration Is Broken

Traditional methods are slow, expensive, and wildly imprecise.

$1B+	10-15yr	90%+
Cost to build a greenfield mine	Average development timeline	Exploration projects fail

- ✕ No purpose-built AI tools for critical mineral exploration
- ⚠ Companies rely on legacy methods designed for oil & gas
- ✕ $500M–$1B+ capital at risk with no intelligent targeting

THE OPPORTUNITY

Why Tungsten. Why Now.

9.4×

Price Surge

APT prices: $330 → $3,100/MTU in 24 months. Unprecedented demand signal.

82%

China Concentration

Global tungsten supply controlled by China. Western nations face critical dependency.

$12B

Government Backing

Trump rare-earth stockpile program. DPA funding. DoD strategic reserves. G7 coordination.



Policy Tailwinds

Defense Production Act Title III, EU CRMA, JOGMEC. Western governments desperate for non-Chinese supply.

OUR SOLUTION

The World's First AI Platform for Critical Mineral Exploration

Purpose-Built AI

8 integrated modules covering the entire mining value chain — from target identification to production optimization.

Vertically Integrated

We own the exploration asset AND the AI platform. Our models train on proprietary geological data.

Real-Time Intelligence

Live data ingestion → AI analysis → actionable insights. From drill target to production, AI optimizes every step.

"From drill target to production — AI optimizes every step."

PLATFORM ARCHITECTURE

8 Integrated AI Modules

Connected through a central intelligence engine



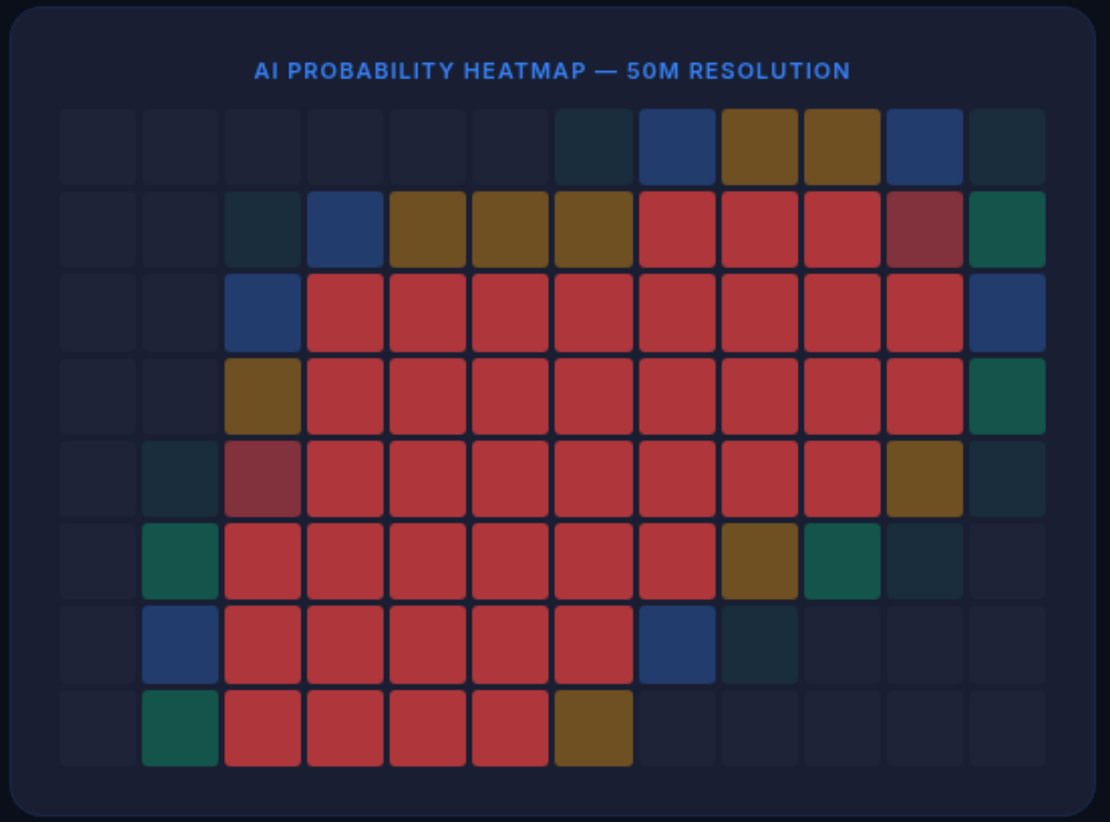
MODULE 01

AI Geological Modeling

- Machine learning predicts tungsten-rich zones
- Processes geological, geochemical & geophysical data
- Probability heatmaps at 50m grid resolution
- Multi-layer data fusion for target prioritization

94.7%

Prediction accuracy on historical drill targets



MODULE 03

Drill Site Optimization

- Bayesian optimization ranks drill targets by expected value
- Multi-objective: maximize discovery probability, minimize cost
- Monte Carlo risk simulation for capital allocation

TRADITIONAL

$4.2M

per program

→

AI-OPTIMIZED

$2.6M

38% cost reduction

RANKED DRILL TARGETS

SITE	AI SCORE	CONFIDENCE	EV ($M)
DH-047	0.94	High	$12.4
DH-023	0.89	High	$9.7
DH-091	0.82	Med	$7.1
DH-015	0.76	Med	$5.3
DH-068	0.71	Low	$3.8

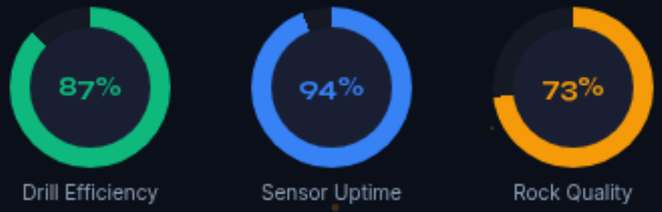
MODULE 04

Real-Time Operations Intelligence

- 📡 IoT sensor network — 1,247+ active nodes
- 🧠 LSTM autoencoder anomaly detection
- ⚙️ Drilling parameter optimization
- 🔧 Predictive maintenance scheduling

47%
Reduction in equipment downtime

LIVE SENSOR DASHBOARD



• LIVE
1,247
Active Sensors

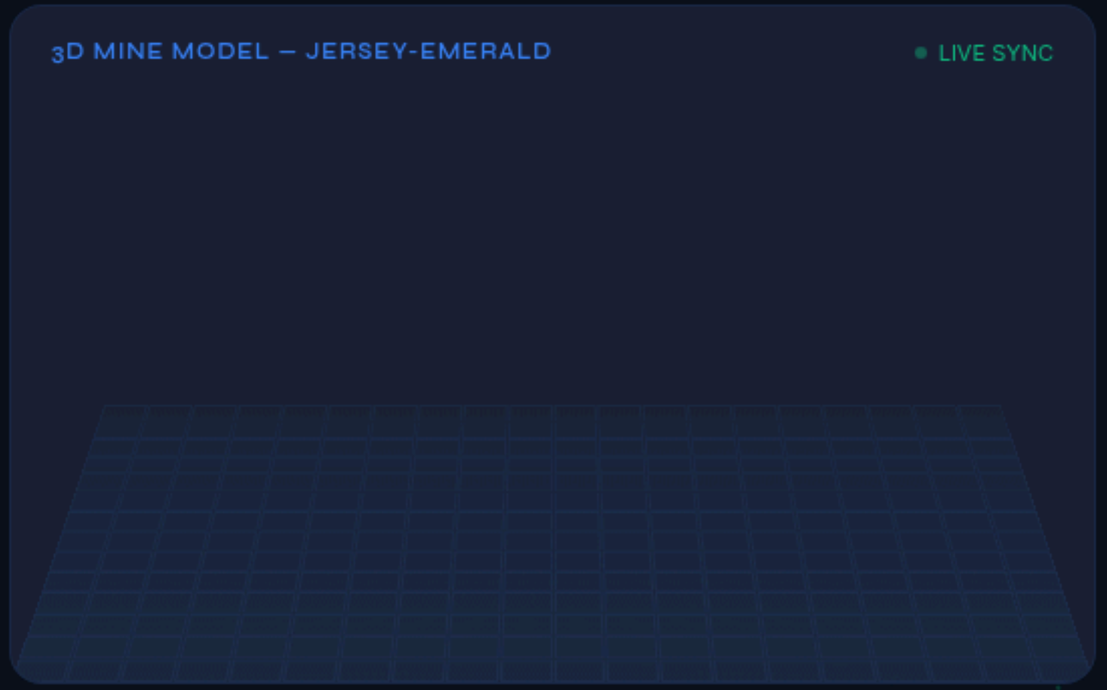
⚡ ALERT
3
Anomalies Detected

MODULE 08

Digital Twin Technology

- 🌐 3D real-time model of the entire mine site
- 🔬 Simulate scenarios before deploying capital
- 📊 "What-if" analysis for expansion decisions
- 📡 Sensor data synchronized in real-time

Deploy capital with **confidence**. Test every scenario in the digital world before committing resources in the physical one.



MODULE 07

Supply Chain & Market Intelligence

- 📈 Tungsten price forecasting (ARIMA + transformers)
- 🛡️ Supply chain risk scoring
- 🇨🇳 China supply concentration monitoring
- ⏰ Optimal contract timing signals

AI predicted the APT price increase
3 months before the market moved.

APT PRICE FORECAST — 24M



HIGH
China Risk Score

BUY
Contract Signal

COMPETITIVE MOAT

The Data Flywheel

Our competitive moat compounds with every project



OUR EDGE

Vertical Integration Advantage

We don't just build software — we operate mines.

01 **Own the Data Source** — Our AI trains on proprietary geological data from our own mine sites

02 **Prove on Our Assets** — Live proof of concept on MAX Mine + Jersey-Emerald

03 **License Globally** — Proven platform licensed to every mining company worldwide

04 **Compound the Moat** — Every customer generates data that makes the platform stronger

> *"Palantir for Critical Minerals"*

BUSINESS MODEL

Path to Revenue

PHASE 1 — NOW

Deploy on Owned Assets

Proof of concept on our mine sites. Generate first operational data.

PHASE 2 — YEAR 1

Demonstrate Results

Publish measurable improvements. Build case studies.

PHASE 3 — YEAR 2+

License as SaaS

Enterprise SaaS licensing to global mining companies.

PHASE 4 — YEAR 3+

Data Monetization

Geological data marketplace. Predictive analytics as a service.

REVENUE PROJECTION ($M)



⛏️ Exploration
Revenue from owned assets

💻 SaaS
Platform licensing fees

📊 Data
Data licensing & analytics

🤝 Consulting
Implementation services

MARKET SIZE

A $25B+ Opportunity



17.8%
Mining AI CAGR

$15B+
Annual Exploration Spend

DPA · DOE · EU CRMA · JOGMEC

LEADERSHIP

The Team

World-class operators at the intersection of AI and mining



Chief Executive Officer

Strategic leadership & vision

Bio to be added



Chief Technology Officer

AI platform architecture

Bio to be added



VP Mining Operations

Exploration & production

Bio to be added



VP Data Science

ML models & analytics

Bio to be added



Board of Directors

Industry & capital markets expertise

Bios to be added

THE OPPORTUNITY

Building North America's AI-Powered Critical Mineral Supply Platform

94.7% Prediction Accuracy	**38%** Cost Reduction	**47%** Downtime Reduction
8 Integrated AI Modules	**3** Active Mine Sites	**1st** Mover Advantage

First-mover in AI for critical mineral exploration.
The window is now.

Tungsten AI

AI Mining Intelligence Platform

The Operating System for Critical Mineral Exploration

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[Phone Number]
[Website]

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