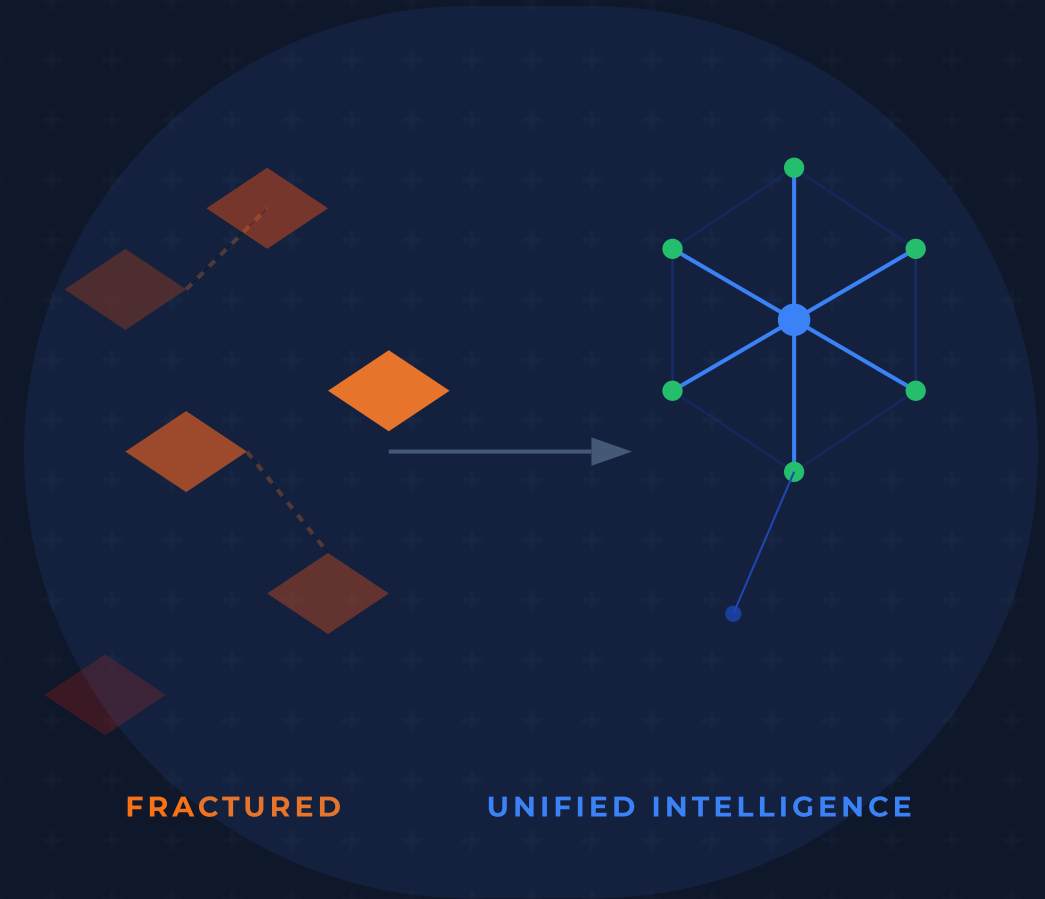




Vyomchara

An Integrated **AI Platform** to Modernize
India's **Mining Sector**

“India's mining sector is the bedrock of our economy, but it's built on a fractured digital foundation. We are **Vyomchara**, and we are building the *unified intelligence layer* for the mine of the future.”



IIT KANPUR FOUNDERS



Harsh Raj
Founder, MD



Somu Prajapati
Co-Founder, CTO



Sahil Dhull
Head of AI

PRESENTED ON
January 20, 2026



A Trillion-Dollar Industry Running on Disconnected, Obsolete Technology

The core issue is a lack of integrated, end-to-end platforms, creating massive inefficiencies across the mining value chain.



Data Silos

Geologists, engineers, and operators don't share a single source of truth, leading to misinformed decisions.



High Costs

Expensive foreign technology is unfeasible for most Indian firms, leaving mid-tier miners behind.




Safety & Compliance

Manual processes lead to critical safety risks and reporting failures, risking shutdowns.

CURRENT STATE: FRACTURED WORKFLOW

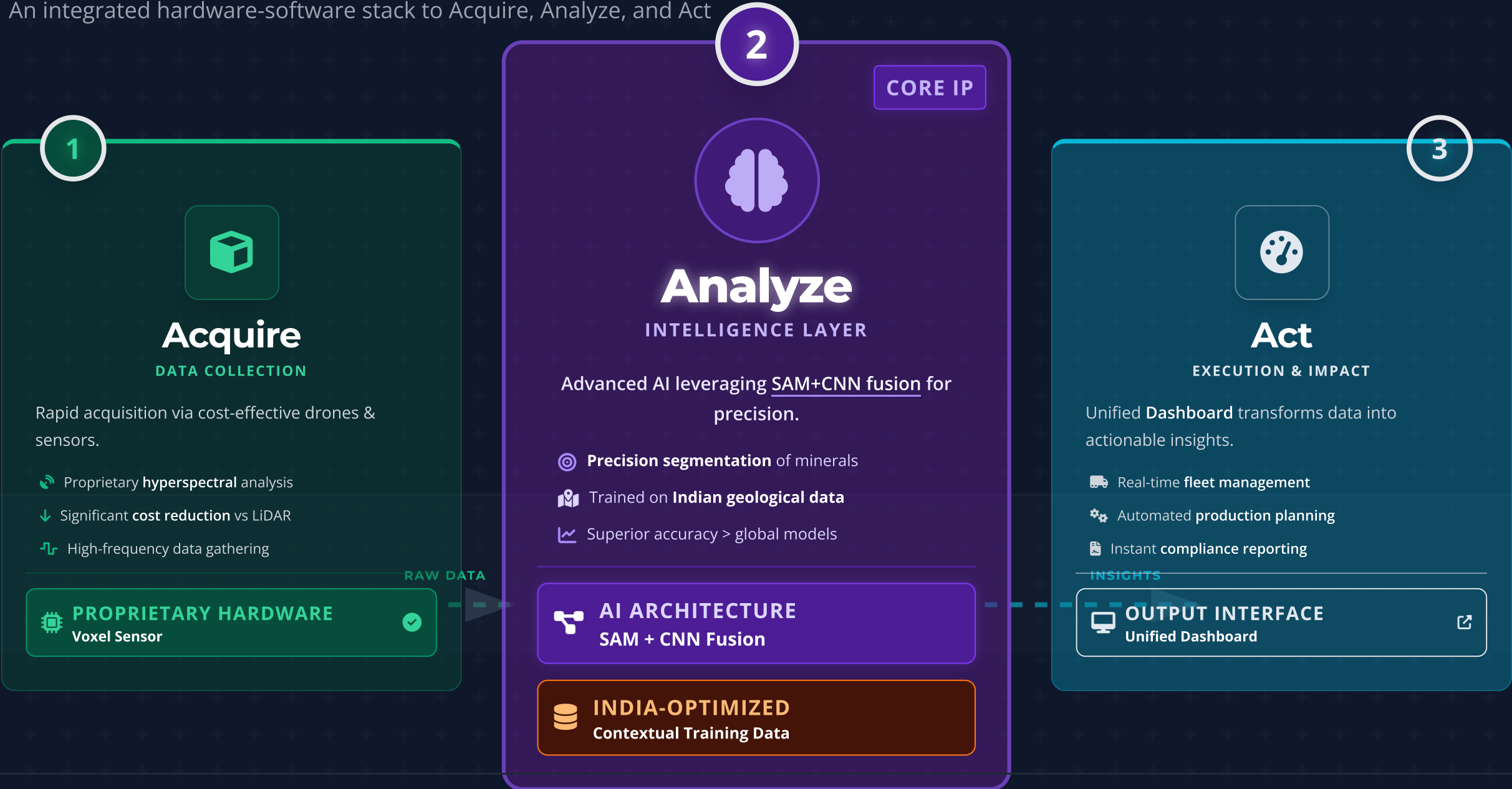


 **Result: 40% Operational Inefficiency & Increased Risk**



The Vynomchara Platform: Mining 4.0

An integrated hardware-software stack to Acquire, Analyze, and Act





Tapping into India's Massive Mining Potential

TOTAL AVAILABLE MARKET (TAM)
(Source: Industry Reports 2025)

\$285

B

India Metals & Mining Industry 2024

KEY OPPORTUNITY

"No dominant Indian leader in integrated mining technology."

Incumbents like Hexagon and Reactore are too expensive and monolithic for the average Indian firm.

TARGET STRATEGY

Phase 1

Private Contractors
Initial Entry

Phase 2

B2G Tenders
Scale (Coal India, OMC)

Market Segmentation

Serviceable Addressable Market (SAM)

TARGET SEGMENTS

TARGET SEGMENTS

TARGET SEGMENTS

VYOMCHARA Entry Point

SERVICEABLE MARKET

\$42.75 B

15% tech-modernization segment of total output value

Rs

2.5%

Trophy

#2

Line graph

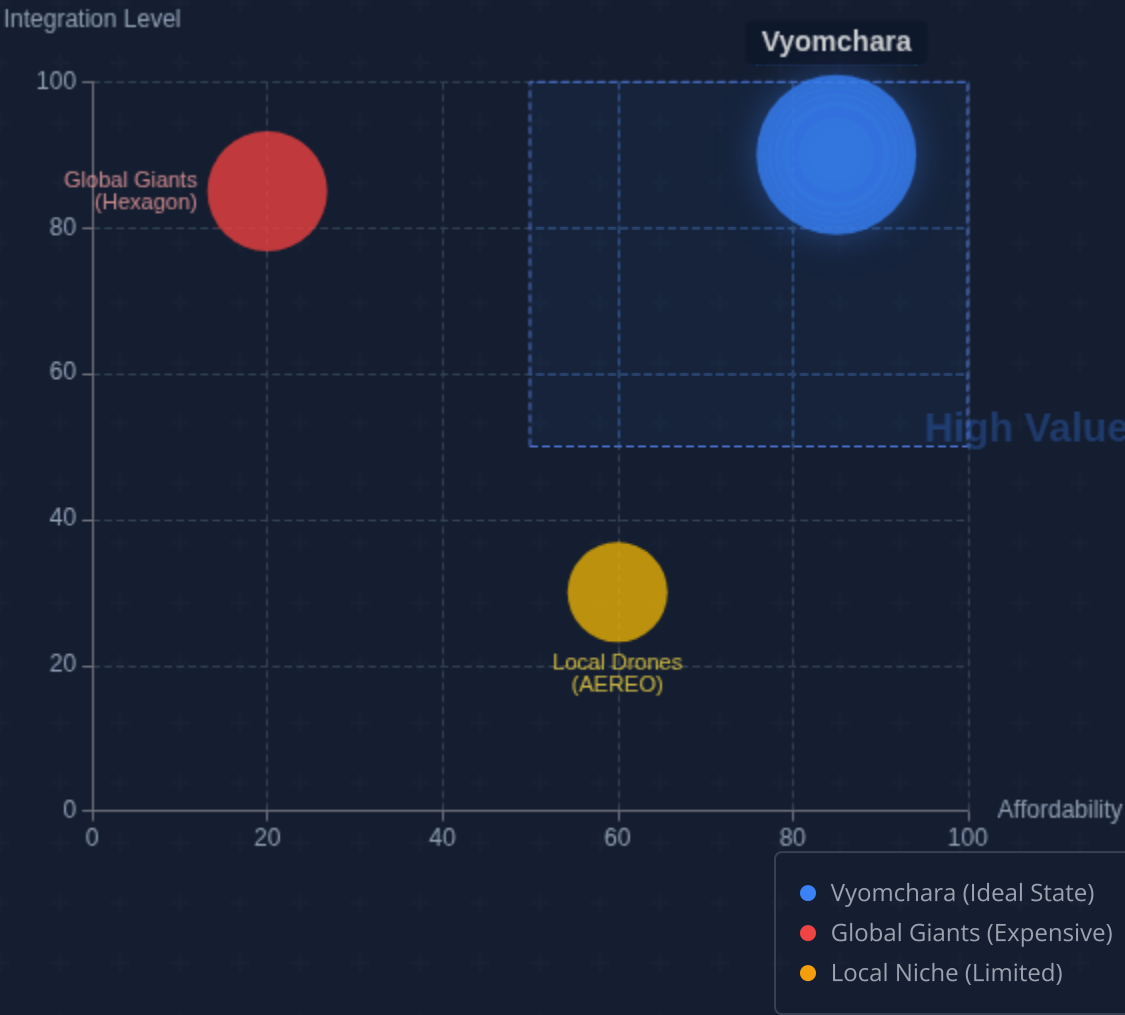
11.7%

Source: Ministry of Mines Annual Report 2024-25, Industry Analysis 2025 BHAR-777023



Our Unfair Advantage: Integration & Affordability

Competitive Landscape



Why We Win



System Integration

Seamless hardware-software stack. Hard to replicate end-to-end flow.



Proprietary AI

SAM+CNN models trained specifically on **Indian geological data**.



Cost Advantage

"Voxel" sensor + affordable drones = **1/5th the cost** of incumbents.

THE COMPETITION

Hexagon / Reactore

Powerful but monolithic & expensive. Not tailored for India.

AEREO

Good drone services, but lacks full-stack AI & analytics platform.



A Dual-Pronged Strategy for Market Capture

Revenue Model



B2B: Private Sector

MID-TIER MINING CONTRACTORS

- ✓ **Project Consultancy:** Initial digitization & hardware setup fees.
- ✓ **Recurring Licensing:** SaaS fees for Platform & AI Analytics access.



B2G: Government

PSUS (COAL INDIA, OMC)

- ✓ **Large Scale Tenders:** Multi-year contracts for mine modernization.
- ✓ **Enterprise Volume:** High-volume data processing & compliance reporting.

Go-to-Market Strategy

1

Pilot Projects


Validate ROI & Tech

 2-3 Paid Pilots

2

Partnerships

Expand Reach & Capabilities

 Drone & HW Vendors

3

Scale

Market Dominance

 B2G Contracts



The Right Team to **Execute** this Vision

Current Traction

Prototype Dev

"Voxel" sensor prototype in advanced development.

Expert Validation

Active discussions with professors & ministry experts.

Client Interest

Initial pilot conversations for Q2 deployment.



INCUBATED AT
IIT KANPUR

Leadership Team

All Founders from IIT Kanpur



IITK

Harsh Raj
FOUNDER, MD

Business Operations & Strategy

Business research & expansion strategy

Marketing & signal leads management

Overall business operations



IITK

Somu Prajapati
CO-FOUNDER, CTO

Tech Business & Operations

Tech solution pitching & client meetings

Manages all Tech, AI & IoT stack

Technical operations oversight



IITK

Sahil Dhull
HEAD OF AI DIVISION

Artificial Intelligence Lead

Deep Learning model architecture

Computer Vision implementation

AI model optimization & deployment



Funding & Milestones: Momentum & Scale



TRACTION SECURED

₹2.4 Cr Raised

DE-RISKED INVESTMENT

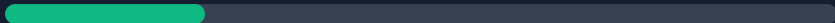
WORK ORDERS FROM:

OMC
Orissa Mining Corp

Coal India
Maharatna PSU

CURRENT ROUND ASK

₹10 Cr



₹2.4 CR COMMITTED

₹7.6 CR SEEKING

Allocation Strategy



- R&D / Product 40%
- Pilot Expansion 30%
- Operations 20%
- BD & Mktg 10%

Execution Roadmap

FY 2025-26



Q1-Q2 2025

ACHIEVED

Foundation & Traction

Secured ₹2.4 Cr seed funding. Onboarded OMC & Coal India. Prototype validation completed.



Q3 2025 (Current)

IN PROGRESS

Deployment & Validation

Deploying pilot projects at OMC sites. Rolling out Fleet Management System for Coal India.



Q4 2025

PLANNED

Scale & Enterprise Entry

Scale to 5+ enterprise clients. Demonstrate >15% efficiency gain. First major B2G tender bid.



Q1 2026

PLANNED

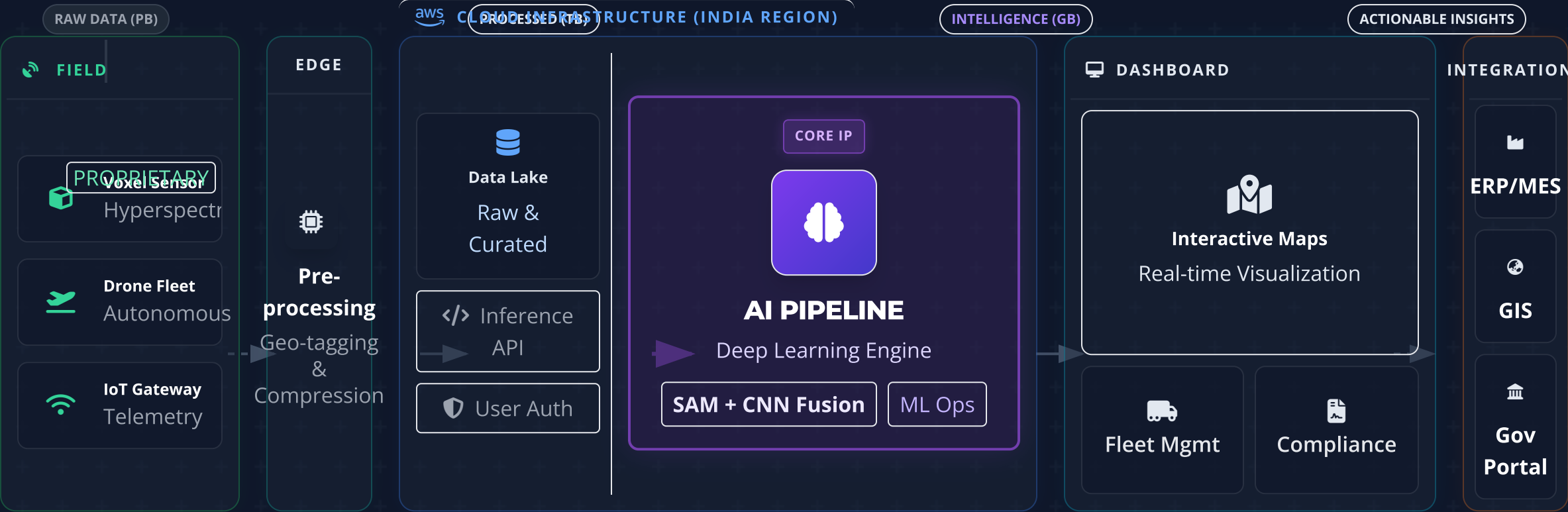
Expansion & Series A Prep

Expand into Metallic Minerals segment. Reach ₹5 Cr ARR run rate.



Lean Canvas: Vyomchara

<div><div><div><div><div><div></div><div>PROBLEM</div></div></div><div><ul style="list-style-type: none">• Data Silos: Geology, Ops, and Reporting don't share a single source of truth.• High Costs: Foreign tech (Hexagon/Reactore) is too expensive for mid-tier Indian firms.• Safety Gaps: Manual surveying and reporting lead to accident risks.• Compliance: Slow, error-prone manual reporting to government bodies.</div></div></div><div><div><div>EXISTING ALTERNATIVES</div><div>Manual surveying, Excel sheets, Expensive foreign ERPs.</div></div></div></div>	<div><div><div><div><div><div></div><div>SOLUTION</div></div></div><div><ul style="list-style-type: none">• Voxel Sensor: Portable hyperspectral imaging.• Drone Integration: Autonomous data collection.• SAM+CNN AI: Automated mineral identification.• Unified Dashboard: Real-time insights & reporting.</div></div></div><div><div><div><div><div><div></div><div>KEY METRICS</div></div></div><div><ul style="list-style-type: none">• Mineral Identification Accuracy (%)• Operational Efficiency Gain (%)• Deployment Time (Days vs Weeks)• Annual Recurring Revenue (ARR)• Cost per Hectare Surveyed</div></div></div></div></div>	<div><div><div><div><div><div></div><div>UNIQUE VALUE PROP</div></div></div><div><div>"The first unified, affordable Mining 4.0 platform optimized specifically for Indian geology and workflows."</div><ul style="list-style-type: none">• End-to-end integration (Hardware + AI + Software)• 1/5th the cost of global incumbents• Zero-touch compliance reporting</div></div></div><div><div><div>HIGH-LEVEL CONCEPT</div><div>"Android for the Indian Mine"</div></div></div></div>	<div><div><div><div><div><div></div><div>UNFAIR ADVANTAGE</div></div></div><div><ul style="list-style-type: none">• Integrated Stack: Seamless flow from sensor to dashboard is hard to replicate.• Proprietary AI: Models trained on exclusive Indian geological datasets.• Cost Structure: Low-cost hardware integration.</div></div></div><div><div><div><div><div><div></div><div>CHANNELS</div></div></div><div><ul style="list-style-type: none">• Direct Sales (Pilot Projects)• Strategic Partnerships (Drone Operators)• Government Tenders (GeM Portal)• Mining Industry Associations (FIMI)</div></div></div></div></div>	<div><div><div><div><div><div></div><div>CUSTOMER SEGMENTS</div></div></div><div><ul style="list-style-type: none">• Private Contractors: Mid-tier mining firms needing efficiency to compete.• PSUs / Government: Coal India, OMC, NMDC (High volume, compliance focus).• EPC Firms: Infrastructure companies with mining verticals.</div></div></div><div><div><div>EARLY ADOPTERS</div><div>Tech-forward private contractors in Odisha/Jharkhand.</div></div></div></div>
<div><div><div><div><div><div></div><div>COST STRUCTURE</div></div></div><div><ul style="list-style-type: none">• R&D (Sensor Hardware & AI Models)• Cloud Infrastructure & Data Storage</div></div></div><div><div><div><div><div><div></div><div>SOLUTION</div></div></div><div><ul style="list-style-type: none">• Field Operations (Pilot Deployment)• Sales & Business Development</div></div></div></div></div>	<div><div><div><div><div><div></div><div>REVENUE STREAMS</div></div></div><div><div><div>CONSULTANCY</div><div>Pilot Fees</div></div><div><div>RECURRING</div><div>SaaS Licensing</div></div><div><div>HARDWARE</div><div>Sensor Sales/Lease</div></div></div></div></div></div>			



SECURITY & GOVERNANCE LAYER

Foundation

End-to-End Encryption • Role-Based Access Control (RBAC) • Immutable Audit Logs



INDIAN DATA
RESIDENCY COMPLIANT



ISO 27001 Ready