



# Global Leadership Network for African Development

Strategic Mining, Technology & Commodity Solutions

# The \$2.7 Trillion Opportunity

Critical Minerals Market

The global mining industry is at an inflection point. Africa holds 30% of global mineral reserves yet captures only 12% of the value. GLNAD bridges this gap with North American innovation.

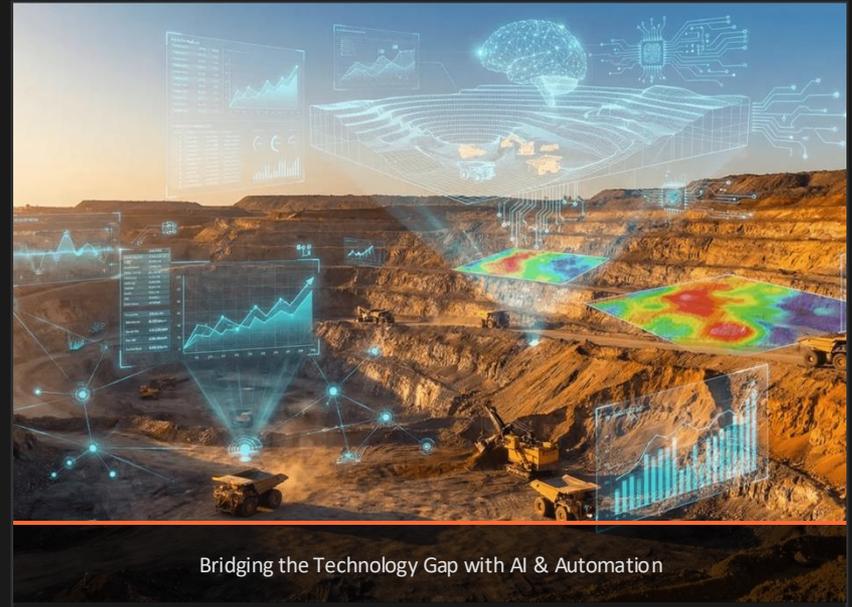
 **145M EVs by 2030** driving exponential battery mineral demand

 **40% Increase** in copper demand for renewable infrastructure

 **90% of Operations** require technological upgrades for efficiency

## \$2.7 Trillion

Projected Mining Infrastructure Investment (2030)



Bridging the Technology Gap with AI & Automation

30%

Africa's Share of  
Global Reserves

12%

Current Value  
Captured

18%

Untapped Value  
Opportunity

# GLNAD Vision & Mission

UO  
!S!A

To become the premier bridge connecting North American mining innovation with African resource development, establishing new standards for responsible, technology-driven mining that delivers sustainable value.



*Connecting Continents through Innovation & Resources*

## Strategic Mission Pillars



### Technology Leadership

Deploy AI, sensors, and digital twins to improve operational efficiency by 20-46%.



### Sustainable Development

Real-time ESG monitoring reducing water waste by 46% and energy use by 25%.



### Strategic Finance & Trading

Facilitate investment via U.S. contracting and multilateral banks.

**Nicomtrade's AI predictive pricing**

optimizes commodity trading with \$1B+ monthly volume.



### Economic Inclusion

Strengthen governance and local capacity for shared economic benefits.

# GLNAD's Competitive Advantages

5 Strategic Pillars



## Strategic Leadership

25+ YEARS

Leadership team with decades of experience in international mining operations, government relations, and cross-border development.



## Dual-Continent Market Access

12+ COUNTRIES

Established networks across African mining operations and North American technology providers, logistics, and trading platforms.



## Multilateral Finance Relationships

5 INSTITUTIONS

Direct access to African Development Bank, World Bank, IFC, and U.S. DEG for project financing and risk



## Technology Partnership Portfolio

4 PARTNERS

Exclusive partnerships with leading firms: airth.io (AI), NIKET (Sensors), Darling Geomatics (LIDAR), and Optimal Cities (GeoAI).



## Government Contracting Pathway

\$180B MARKET

Preparing for U.S. FAR compliance to access the annual government contracting market in mining and infrastructure.



## Integrated Technology Ecosystem

\$2.7T

Market Opportunity

4

Tech Partners

\$180B

Gov. Contracts

5

Finance Institutions

# Technology Portfolio Overview

Integrated Solutions



## AI & Optimization // **airth.io**

Predictive maintenance, ore grade optimization, production forecasting, and ESG monitoring using advanced machine learning models.



## Geospatial Intelligence // **Darling Geomatics**

High-precision 3D mapping, mine planning, and pit optimization using drone and LIDAR technology for digital twin creation.



## Advanced Sensors // **NIKET Q-SMEC**

Superconducting magnetic energy containment sensors providing order-of-magnitude improvements in deep-underground detection.



## Infrastructure Planning // **Optimal Cities**

GeoAI for land-use planning, environmental modeling, and smart mining community development.



## Operational Support // **GLNAD Services**

End-to-end logistics coordination, supply chain management, and government relations.

## Quantified Impact

**11%**

**Ore Prediction Accuracy**

Improved Precision

**46%**

**Water Waste Reduction**

ESG Compliance

**20%**

**Downtime Reduction**

Operational Efficiency

# airth.io – Proven AI Mining Platform

Advanced Intelligence



**\$4 Million**

Venture Capital Raised



**500+ Years**

Collective Mining Exp.



**24**

Strategic Partnership



Predictive Maintenance

**20% Reduction**

Models anticipate failures to cut unplanned downtime.



ESG Monitoring

**46% Water Waste Reduction**

Dust suppression saved 2.2M gallons in trials.



Ore Grade Optimization

**11% Improvement**

AI + geostatistics for better tonnage prediction.



Operational Efficiency

**Dynamic Dispatch**

Agentic AI minimizes idle time and boosts flow.



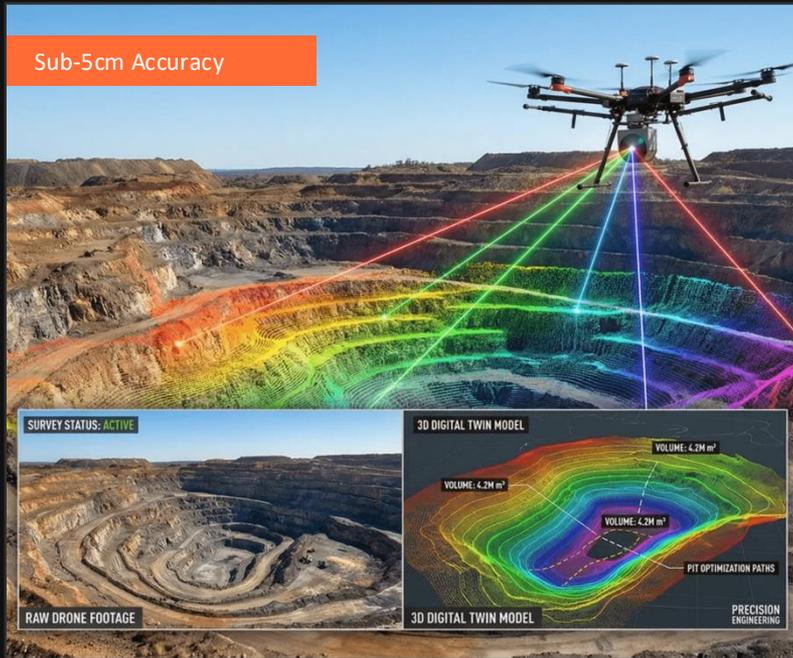
Production Forecasting

**Real-Time Intelligence**

Instant, data-driven optimization decisions.



**Strategic Validation:** 2.5-year partnership with Wenco (Hitachi) shows enterprise readiness.



## Core Capabilities



### High-Precision 3D Mapping

LIDAR point cloud technology captures millions of data points to create detailed terrain models with sub-5cm accuracy.



### Mine Planning & Pit Optimization

Digital twin models enable scenario planning for optimal extraction paths, reducing waste rock movement by 15-20%.



### Environmental Monitoring

Continuous surveying tracks vegetation, water bodies, and land disturbance to ensure regulatory compliance.



### Infrastructure Engineering

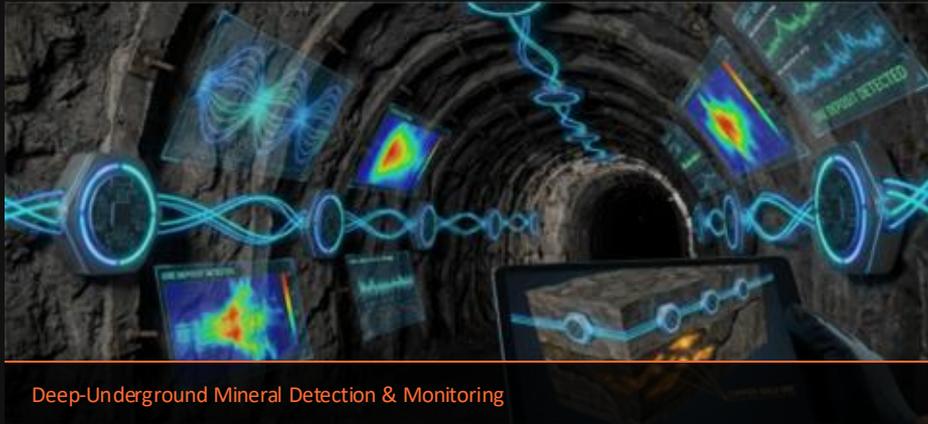
Accurate as-built documentation supports road design, drainage planning, and facility placement.

## Competitive Advantage

*Integration with AI platforms enables automated analysis of survey data to identify optimization opportunities and predict geological conditions.*

# NIKET Q-SMEC – Revolutionary Sensor Technology

Quantum Superconducting Magnetic Energy Containment



**Strategic Impact:** Applies across all 16 U.S. DHS Critical Infrastructure Sectors, offering order-of-magnitude improvements in sensitivity and energy management.

## Technical Specifications



### Materials Innovation

Customized configurations using 22 elements optimized for specific sensing applications.



### Performance Advantage

Order-of-magnitude improvement in sensitivity at desired wavelengths and signal-to-noise ratios.



### Advanced Manufacturing

3D printing with thin film/atomic layer deposition for rapid customization and lowest SWaP-C.



### Security & Compliance

Anti-tamper ready design, ITAR exportable, and CMMC cybersecurity compliant.



### AI Integration

Optimized interface with NIKET AI SCADA Industrial Control Systems for real-time processing.

Transforming remote mining camps into **sustainable, thriving communities** using advanced Geospatial AI and the "15-Minute City" planning concept.



### Automated Land Use Planning

AI algorithms optimize zoning for residential, industrial, and recreational areas to maximize efficiency and livability.



### Infrastructure Optimization

Smart design of road networks, power grids, and water systems to reduce costs and environmental impact.



### Socio-Economic Modeling

Predictive analytics for population growth and service needs to attract and retain a skilled workforce.



### Environmental Integration

Designing green buffers and sustainable waste management systems to minimize the ecological footprint.



### Strategic Value:

Securing the "Social License to Operate" through community-centric development.

# Nicomtrade

Real Asset Management & Predictive Pricing

## Commodity

Trading

## Multiple

Global Partner Mandates

### airth Predict™ Platform

- ◆ **AI Forecasting & Risk Management:** ML models + dynamic hedging to anticipate price moves and reduce volatility exposure.
- ◆ **Optimal Trade Timing:** Algorithmic recommendations for entry and exit based on predicted trajectories.

### Real Asset Management

- ◆ **Streaming & Royalty Structures:** Convert future production into immediate capital while retaining upside.
- ◆ **Institutional Infrastructure:** Logistics, settlement networks, and credit facilities across jurisdictions.



### Strategic Integration with GLNAD

Nicomtrade's **institutional trading infrastructure** and **predictive analytics** complement GLNAD's operational data, enabling enhanced forecasting and dynamic hedging.

### Competitive Advantage

Immediate market access to global refineries and end-buyers, backed by a proven **\$1B+ monthly volume**.

# Operational Services

End-to-End Project Support Infrastructure



## Global Logistics

- Multi-modal freight forwarding (Air, Sea, Road) for heavy equipment.
- Expert customs clearance and regulatory compliance management.
- Last-mile delivery solutions for remote and challenging mining sites.



## Supply Chain

- Procurement of critical mining machinery and technology hardware.
- Global vendor network management and contract negotiation.
- Inventory optimization to reduce carrying costs and prevent stockouts.



## Project Management

- Government relations and permitting support services.
- Community stakeholder engagement and local content planning.
- On-site technical oversight and operational readiness coordination.



### The Integrated Advantage

By combining advanced technology with physical operational support, GLNAD derisks project execution and ensures seamless deployment of AI and sensor solutions.

# Silver Market Opportunity

Industrial Demand Surge



Industrial Applications Driving Price Momentum

## 1.2B oz

Global Demand  
2024 Forecast

### Key Demand Drivers



#### Photovoltaics (Solar)

Record 232M oz demand; +20% YoY growth driven by global green energy transition.



#### Electric Vehicles

EVs require 2x more silver than ICE vehicles for conductivity in connectors and battery management.



#### Electronics & AI

Essential for 5G infrastructure and high-performance computing hardware.



#### Structural Deficit Alert

4th consecutive year where demand exceeds supply (180M oz shortfall).

# Silver Business Unit

## Three Revenue Streams



### Physical Trading

- **Direct Sourcing:** Offtake agreements with African artisanal and small-scale miners.
- **Industrial Sales:** Supplying refined silver to Solar PV and EV battery manufacturers.
- **Logistics:** Secure transport and storage management via GLNAD operational services.



### Structured Products

- **Inventory Financing:** Providing liquidity to miners against verified stockpiles.
- **Silver-Backed Notes:** Creating investment vehicles linked to physical reserves.
- **Hedging Services:** Managing price volatility risk for producers and buyers.



### Strategic Expansion

- **Streaming Rights:** Acquiring future production at fixed costs for upfront capital.
- **Equity Stakes:** Investing in high-potential junior miners with proven reserves.
- **Vertical Integration:** Developing regional refining capacity to capture higher margins.

# Silver Business Plan – Risk Management

## Proactive Mitigation Strategies

### Price Volatility Risk

#### Mitigation Strategy:

Utilization of hedging instruments (futures & options) and back-to-back sales contracts to lock in margins immediately upon purchase, neutralizing market fluctuations.

### Counterparty Risk

#### Mitigation Strategy:

Strict KYC/AML vetting of all partners. Use of secure escrow accounts and requirement for third-party verification (SGS/Bureau Veritas) prior to funds release.

### Regulatory & Geopolitical

#### Mitigation Strategy:

Full adherence to OECD Due Diligence Guidance and U.S. FCPA. Engagement of top-tier local legal counsel in every operating jurisdiction to ensure compliance.

### Operational & Logistics

#### Mitigation Strategy:

Comprehensive marine cargo insurance covering 110% of value. Partnerships with Tier-1 secure logistics providers for transport and warehousing.

#### Global Compliance Standards

 OECD Due Diligence

 U.S. Foreign Corrupt Practices Act (FCPA)

 LBMA Responsible Sourcing

# 2026 Roadmap

Seven Strategic Milestones

Q1 2026 (Feb)



## Corporate Launch

Official debut at Mining Indaba & PDAC.  
Brand establishment.

Q1 2026 (Mar)



## Tech Integration

Finalize airth.io & NIKET partnership agreements.

Q2 2026 (Apr)



## Silver Desk Live

Initiate physical silver trading operations.  
First revenue.

Q2 2026 (Jun)



## Pilot Deployment

First tech implementation at partner mine site (Zambia/DRC).

Q3 2026 (Aug)



## Gov Contracting

Complete SAM.gov registration & CAGE code acquisition.

Q3 2026 (Sep)



## Revenue Scale

Achieve \$5M annualized revenue run-rate milestone.

Q4 2026 (Dec)



## Expansion

Operations active in 3 mine sites. Series A preparation.

# U.S. Government Contracting

Securing Critical Supply Chains

## \$180 Billion

Annual Federal Contracting Market

### Strategic Alignment

Direct alignment with U.S. national security mandates to secure critical mineral supply chains independent of adversarial control.



U.S. DFC Development Finance Corp.



USAID Intl. Development



DoD Dept. of Defense (Critical Minerals)



Bridging Policy, Finance, and Resources



FAR Compliant & SAM.gov Registered Strategy

# Multilateral Finance Access

Strategic Capital & Risk Mitigation



## African Development Bank (AfDB)

Infrastructure Financing

Access to "High 5s" development funds for power and transport infrastructure. Critical for enabling remote mining operations and community development.



## World Bank Group / IFC

Private Sector Lending

Equity and debt financing for high-impact projects. IFC involvement validates ESG standards, attracting further institutional capital.



## U.S. DFC

Political Risk Insurance

Direct loans and political risk insurance (up to \$1B) for U.S. businesses investing in development. Specifically targets critical minerals security.

## Blended Finance Strategy

Leveraging concessional public capital to de-risk projects, lower the cost of capital, and crowd-in private sector investment for scalable growth.

# Competitive Landscape

Unique Market Positioning

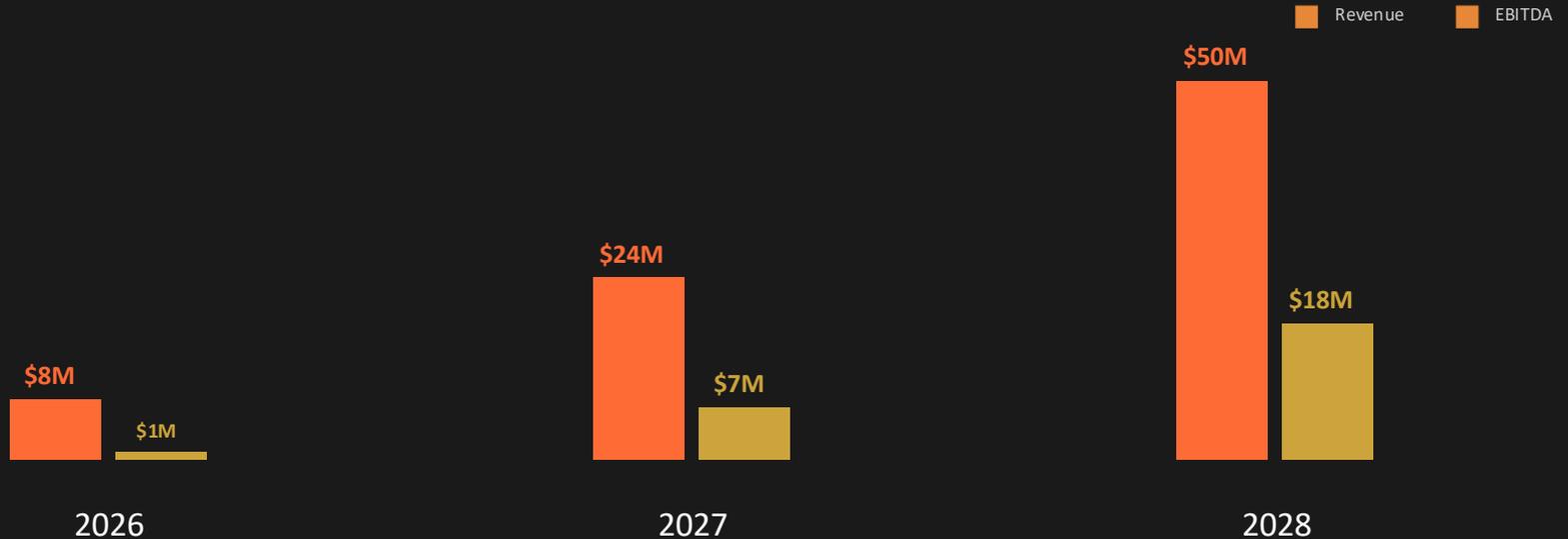
Capabilities	GLNAD	Pure Tech	Startups	Commodity	Traders	Gov't	Contractors
Integrated AI & Sensors	✓	✓	—	—	—	—	—
Physical Trading Desk	✓	—	—	✓	—	—	—
U.S. Gov Contracting	✓	—	—	—	—	—	✓
Deep African Networks	✓	—	—	✓	—	—	—
Agility & Innovation	✓	✓	—	—	—	—	—



**The GLNAD Advantage:** While competitors specialize in silos, GLNAD integrates **Technology, Trading, and Government Access** into a single, cohesive platform, de-risking execution and maximizing value capture.

# Financial Projections

Path to \$50M Revenue



## Phase 1: Market Entry

- Launch Silver Trading Desk
- Pilot Tech Deployment (Zambia)
- Initial Gov Contract Bids

## Phase 2: Scaling

- 3 Active Mine Site Contracts
- Expansion of Trading Volume
- Series A Funding Round

## Phase 3: Maturity

- Full-Scale Streaming Rights
- Regional Refining Capacity
- Dominant Market Share

# Investment Highlights

Why Invest Now?

## Strategic Timing

Capitalizing on the critical minerals supercycle and the urgent U.S. mandate to diversify supply chains away from adversarial control.

## Immediate Cash Flow

Physical silver trading desk generates revenue from Day 1, funding technology R&D and reducing burn rate reliance on investor capital.

## Scalable Growth

Asset-light model with high operating leverage. Clear path to \$50M revenue and \$18M EBITDA by 2028 through replication across sites.

## Proprietary Tech

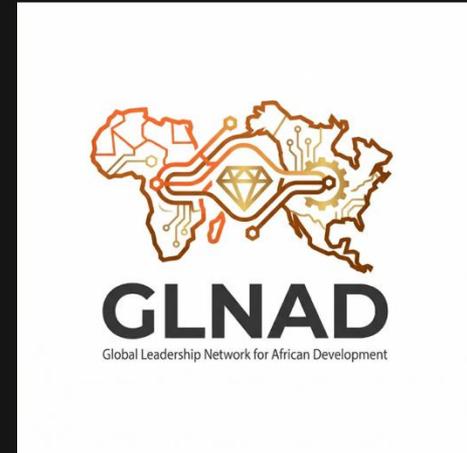
Exclusive rights to airth.io and NIKET sensors create a defensible moat, digitizing operations where competitors rely on manual processes.

## Geopolitical Moat

Unique positioning as a U.S. Prime Contractor with deep African operational roots, bridging the gap between DFC capital and ground reality.

## Expert Team

Leadership combining decades of experience in African mining operations, Silicon Valley technology, and U.S. Government contracting.



Bridging Continents.  
Powering the Future.

# Contact Information

Partner with GLNAD

## Investment Process

**01** Request Access to Virtual Data Room (VDR)

**02** Schedule Management Presentation & Q&A

**03** Submit Letter of Intent (LOI)



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