

# Proprietary Technology – Gold Grade Enhancement System

## Commercial Applications

- Gold processing plants
  - Tailings reprocessing
  - Low-grade ore upgrading
- Small & mid-scale mining operations
  - JV or licensing opportunities

## Revenue Impact for ECOMINAS

This technology allows ECOMINA to:

- Charge premium processing fees
- Negotiate production-sharing agreements
- Negotiate production-sharing agreements
- Increase EBITDA margins by +10-20
- Strengthen long-term contracts





*ecominas*

MINERALES SOSTENIBLES

# Executive Business Plan 2026-2032



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**Is a next-generation mining services and processing company focused on efficient, technology-driven mineral extraction and processing in Latin America.**

**The company will operate as a processing and optimization partner for medium-scale mining operations in gold, copper, coal, and diamonds, integrating.**

- Advanced mineral processing.
- Artificial Intelligence (AI) for optimization.
- Operational efficiency models.
- Cost-reduction technologies.
- ESG-compliant practices.

 **Initial Investment Required: USD 5,000,000**

 **Target Region: Latin America**

 **Target IRR: 35-45%**

 **Payback Period: 24-30 months**

# Executive Summary



# Company Overview

Company Name: ECOMINAS C.A.

Industry: Mining & Mineral Processing.

Business Model: Processing + Optimization  
+ Technical Services.

Markets: Gold, Copper, Coal, Diamonds.

Headquarters: LATAM (to be defined  
based on licensing)

## Mission

To deliver high-efficiency, low-cost and sustainable mineral processing solutions, leveraging AI and advanced engineering.

## Vision

To become a regional leader in intelligent mining processing in Latin America by 2030.



# Market Opportunity

## Global Mining Outlook

- Global mining market > USD 2 trillion.
- LATAM represents ~25% of global mineral production.
- Strong demand for:
  - Gold (safe-haven).
  - Copper (energy transition).
  - Coal (industrial use).
  - Diamonds (industrial & gem).
- Industry Problems.
  - High operating costs.
  - Low recovery rates.
  - Aging infrastructure.
  - Poor data usage.
  - Inefficient processing plants.
- ECOMINAS Solution
  - Modular processing plants.
  - AI-assisted optimization.
  - Low-cost operational model.
  - Fast deployment.
  - ESG compliance



# Business Model

## Revenue Streams



1. Processing fees  
(per ton)



2. Production-sharing  
contracts



3. Operational  
optimization contracts



4. AI-based  
performance services

## Typical Revenue Structure

Source	%
Processing contracts	45%
Production share	35%
Optimization & AI services	15%
Consulting & tech	5%

# Core Services

## Mineral Processing

- Crushing & grinding
- Gravity separation
- Flotation
- Dense media separation
- Tailings management

## AI & Digital Optimization

- Predictive maintenance
- Process optimization
- Energy efficiency modeling
- Production forecasting

## Operational Management

- Plant operation
- Cost reduction programs
- Maintenance management



# Technology Strategy (AI-Driven)



Area	Application
Processing	AI process control & optimization
Maintenance	Predictive maintenance
Energy	Consumption optimization
Exploration	Data-driven resource modeling
Safety	AI video monitoring
ESG	Environmental impact monitoring

# Proprietary Technology – Gold Grade Enhancement System

## Exclusive Technology Ownership

Holds exclusive operational rights to a proprietary mineral processing technology designed to significantly increase gold grade (tenor) during ore and alluvial material processing (Using the Newton Method).

This technology enables the upgrading of gold concentration (grams per metric ton – g/t) through an advanced physical-chemical separation process applied to:

## Technology Impact

- Increases gold recovery percentage.
- Improves gold grade per metric ton (g/t).
- Reduces processing losses.
- Enhances project economics without additional mining.
- Allows profitable treatment of low-grade material.

- Alluvial deposits.
- Crushed ore.
- Tailings and low-grade material.
- Sand and earth matrices.



# Proprietary Technology – Gold Grade Enhancement System

## Value Creation Example

Metric	Before	After Technology
Gold Grade	1.2 g/t	1.8 – 2.3 g/t
Recovery Rate	65–70%	85–92%
Revenue per ton	Base	+30–60%
Processing Cost Standard	Similar / Lower	

 **Result: Higher gold output with the same mining volume**

## Strategic Advantages

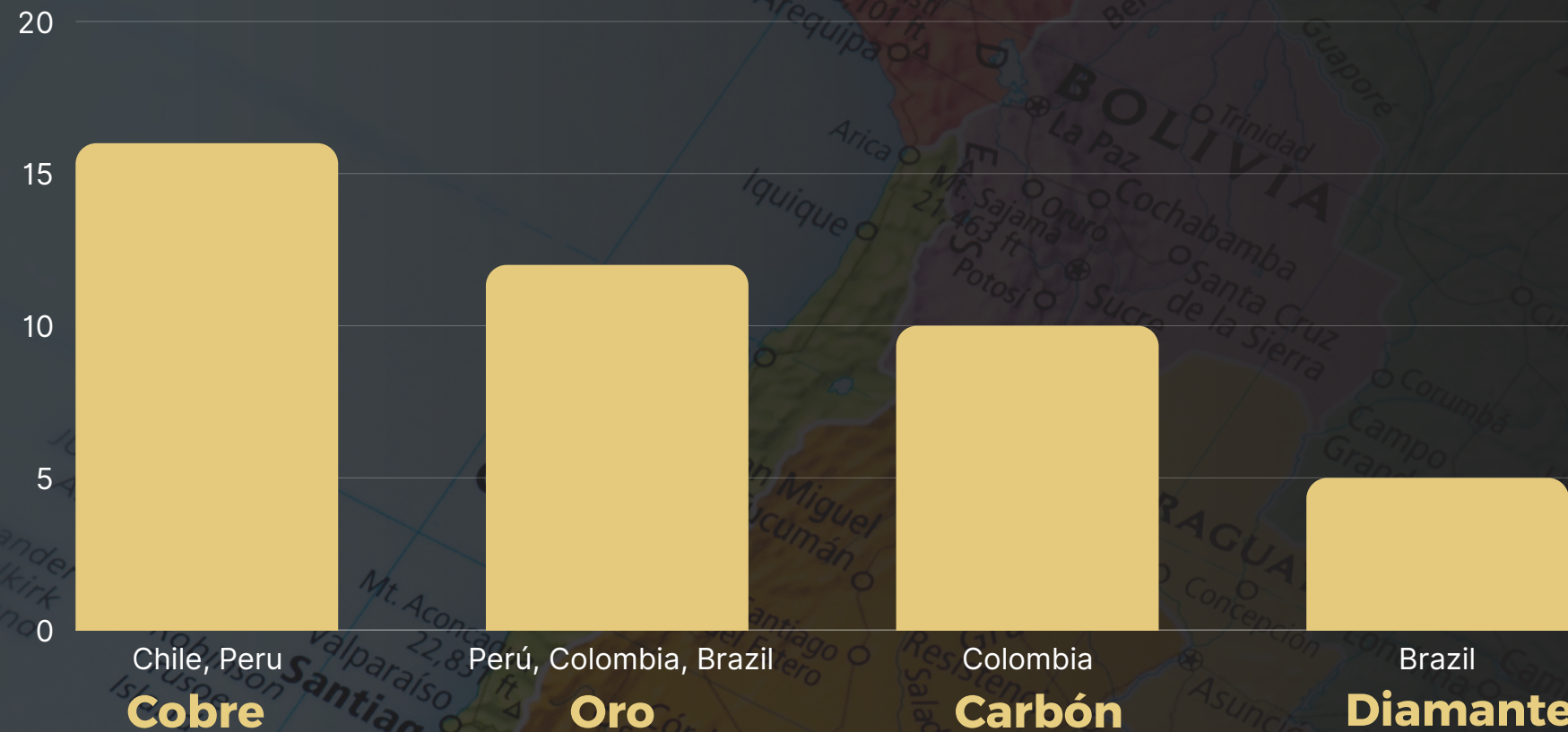
- Proprietary / restricted-access technology
- Competitive moat vs traditional plants
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- Ideal for brownfield projects
- Enhances project IRR and reduces payback period



# Target Markets



Mineral	Region	Demand
Gold	Peru, Colombia, Brazil	High
Copper	Chile, Peru	Very High
Coal	Colombia	Stable
Diamonds	Brazil	Niche / Growing



# Competitive Advantages

- ✓ Competitive Advantages
- ✓ AI-driven optimization
- ✓ Modular and scalable plants
- ✓ Fast deployment
- ✓ Strong LATAM mining know-how
- ✓ ESG-compliant operations

# Financial Overview (5-Year Projection)



## Investment Allocation (USD 5M)

Category	Amount
Processing equipment	2,200,000
AI & software	500,000
Infrastructure	900,000
Working capital	900,000
Permits & legal	250,000
Contingency	250,000

## Projected Financials

Year	Revenue	EBITDA	Net Profit
1	\$4.5M	\$1.6M	\$1.1M
2	\$7.2M	\$2.9M	\$2.0M
3	\$10.5M	\$4.5M	\$3.3M
4	\$13.8M	\$6.0M	\$4.5M
5	\$17.0M	\$7.8M	\$6.1M

# Key Financial Indicators

Indicator	Value
IRR	38-45%
Payback	24-30 monts
EBITDA margin	40-45%
Break-even	Year 1.8
ROI (5 yrs)	>250%

# Risk Management

Risk	Mitigation
Commodity prices	Long-term contracts
Operational risk.	Predictive maintenance
Regulatory	Local partnerships
Market volatility	Diversified minerals
Technical	AI monitoring

# Competitive Advantages

- ✓ Reduced energy consumption
- ✓ Water recycling
- ✓ Reduced tailings impact
- ✓ Digital monitoring
- ✓ Community employment
- ✓ International ESG standards



## Growth Strategy (2026–2032)

 Phase 1 – LATAM Core Operations

 Phase 2 – Multi-site expansion

 Phase 3 – AI licensing

 Phase 4 – Strategic partnership

 Phase 5 – IPO / Strategic exit

## Investment Proposal

### Investment Required:

 USD 5,000,000

### Use of Funds:

- Asset deployment
  - Technology
- Working capital
- Growth acceleration

### Investor Return:

- Equity participation
- Dividend yield
- Exit in 5-7 years



# Conclusion

ECOMINAS C.A. is positioned to become a highly profitable, technology-driven mining services company, leveraging:

- Growing mineral demand
- AI-powered operations
- Strong margins
- Scalable model
- ESG compliance

**A solid investment opportunity in the future of mining.**



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