

MODERN MINING

America's Gold Mine of the Future

CORPORATE PRESENTATION . Q4 . 2026
NYSE AMERICAN: MDRN

Gold achieves all-time highs



"With…factors persisting into 2026, we fail to see any catalyst for gold to meaningfully retrace at present. Therefore, we expect gold to continue to push up throughout the year to attempt a challenge of $5,000/oz."

— Matthew Piggott, Director of Gold & Silver, Metals Focus, commenting after gold broke above $4,000/oz (Reuters, Oct 8, 2025)

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The Problem:

The Traditional Mining Industry Is Broken

Traditional Production is Slow & Unreliable

Only ~0.01% of discoveries reach production, with permitting and construction often delayed over a decade by regulations, protests, and cost overruns.

https://amebc.ca/wp-content/uploads/2021/06/AME-Mineral-Exploration-Lifecycle_008.pdf

Capital Expenditure in Gold Exploration

Starting a mine costs hundreds of millions to billions.

With ~40% cost overruns and ~25% delays.

https://theoregongroup.com/commodities/gold/in-gold-miners-we-dont-yet-trust/

Exploration Decline: Budget Cuts & Strategies

Reduced budgets, rising costs, and delays have pushed gold miners to expand existing deposits instead of seeking new ones.

https://www.mckinsey.com/industries/metals-and-mining/our-insights/

The Environmental Toll of Gold Mining

Gold mining creates over 20 tons of waste per oz mined, causes 37% of mercury emissions, and emits over 100 million tons of CO_2 yearly.

https://ui.adsabs.harvard.edu/abs/2022JCPro.34030851U/

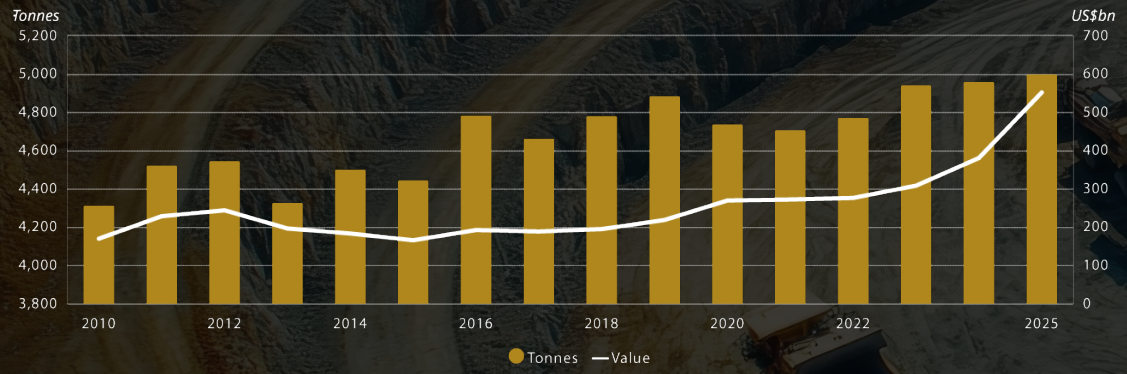
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Traditional Production Is Failing Demand

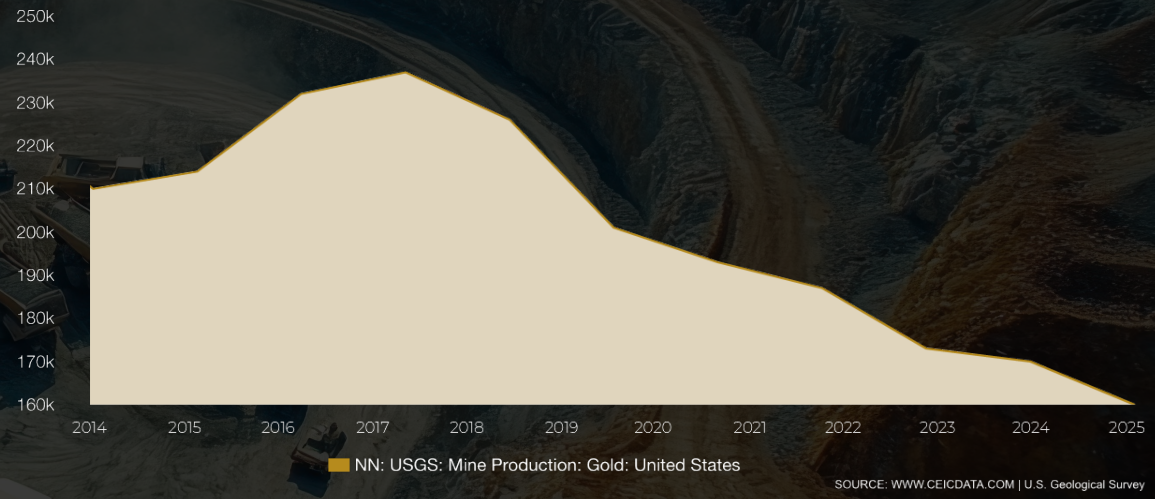
Gold prices are rising due to higher demand during economic uncertainty, with its history as a safe-haven asset driving investor interest.

Gold supply is constrained by declining mining yields, geopolitical risks in key producing regions, and challenges in maintaining sustainable production levels.

GLOBAL ANNUAL GOLD DEMAND BREACHES 5,000T & US $500B



Source: https://www.gold.org/goldhub/research/gold-demand-trends/gold-demand-trends-full-year-2025



Source: https://www.ceicdata.com/en/indicator/united-states/gold-production

WORLD GOLD COUNCIL

World Gold Council: It's getting harder to mine gold (2024)

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Gold Discovery Collapse

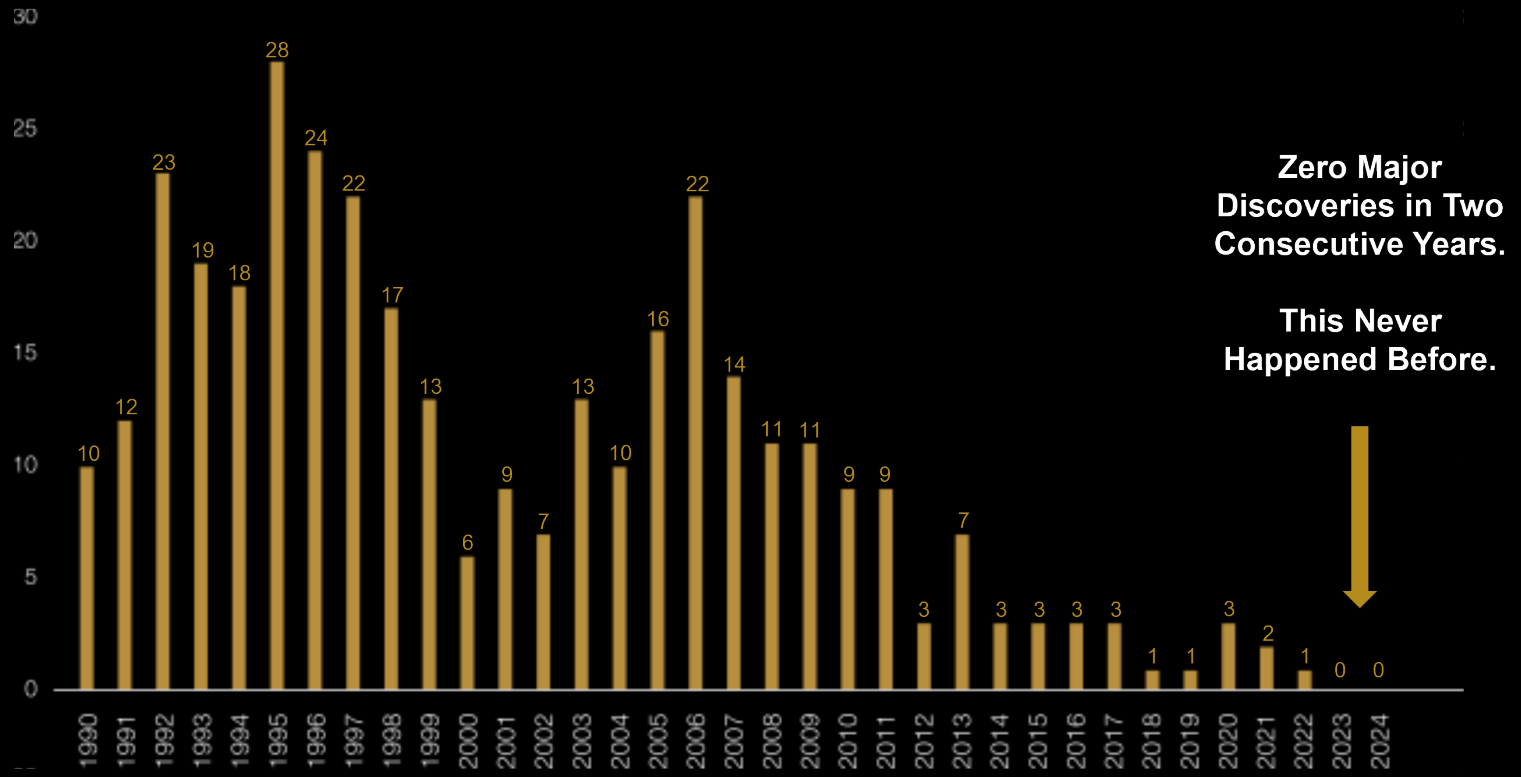
For the first time in recorded history, data from S&P Global confirms that for two consecutive years; 2023 and 2024, there have been zero new major gold discoveries of at least 2 million ounces. **This has *never* happened before.**

The whiplash from years of chronic underinvestment in exploration is just beginning, and it is happening at the exact moment that global demand, led by central banks, is escalating.

It is important to note that most of the assets added to the list were discovered decades ago and only recently met the criteria of having at least 2 million ounces of gold in reserves, resources and past production.

New Gold Discoveries Worldwide

Discoveries of at Least 2 Million Ounces of Gold



Zero Major Discoveries in Two Consecutive Years.

This Never Happened Before.

Sources: Metals & Miners.com (Feb 09, 2026), with notes from: S&P Global

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The Solution:
Modern Mining

Traditional Production is Slow & Unreliable

Digitized Planning & Modular Mining

AI-powered modeling optimizes operations, reducing delays and improving forecasting. Modular unit design replaces large builds, cutting construction timelines.

Capital Expenditure in Gold Exploration

Scalable, Cost-Efficient Gold Production

A vertically integrated, reusable process minimizes CAPEX and overruns. Through e-waste recovery, it delivers a scalable, low-cost supply of gold with consistent quality and extended lifecycle.

Exploration Decline: Budget Cuts & Strategies

Sustainable, Cost-Effective Production

Urban mining & e-waste recovery provide a cost-effective alternatives, with automated systems ensuring consistent, high-quality gold from both primary and recycled sources.

The Environmental Toll of Gold Mining

Clean, Circular Gold Recovery

Technology uses e-waste recovery to cut emissions, and reduce toxic waste. The closed-loop system reuses water and materials, creating a low-impact, sustainable gold supply.

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What Is Electronic Waste?

E-waste refers to discarded devices with circuits, electronics, or batteries, such as obsolete AI chips, scrap semiconductors, and old phones.

E-waste is growing rapidly, The unlimited growth is increasing by 2.6 million tonnes annually and expected to reach 82 million tonnes by 2030*.

It is the largest man-made non-biodegradable waste stream in history.



*Global eWaste Monitor, 2024

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Investment Thesis

Turning AI's e-waste into the world's most efficient precious and critical metals supply.



Disruptive Tech in $B+ E-Waste Market

AI chips and e-waste generate $60B+ in unrecovered metals yearly.*

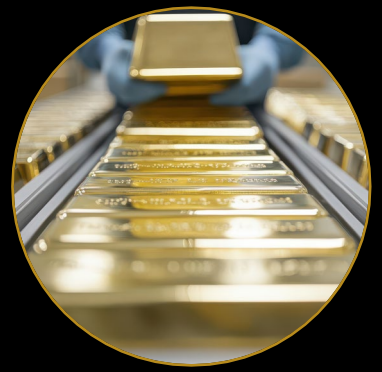
Modern Mining extracts 100x richer metal content vs. traditionally mined ore.



Scalable E-waste Recycler with Low-Capex Model

Modern Mining's water-based process recovers critical minerals (gold, etc.) with zero known direct competitors.

Low-Capex plants deploy at scale, unlocking high-margin mineral recovery.



Consistent Supply of Gold

Supplies critical metals (e.g. gold) at peak prices, monetizing record-high metal markets.

Cleaner, safer alternative to mining—turning e-waste into high-margin recovery.



Cost & Permitting Advantages

1/70 CAPEX compared to a traditional mine.

5–10x faster permitting & construction vs. mines—scaling critical metals without the delays.



Proven Management Team

Backed by a seasoned team with a track record of scaling resource innovations.

Poised to dominate the AI chip waste revolution; bridging circular economy and critical metals supply.

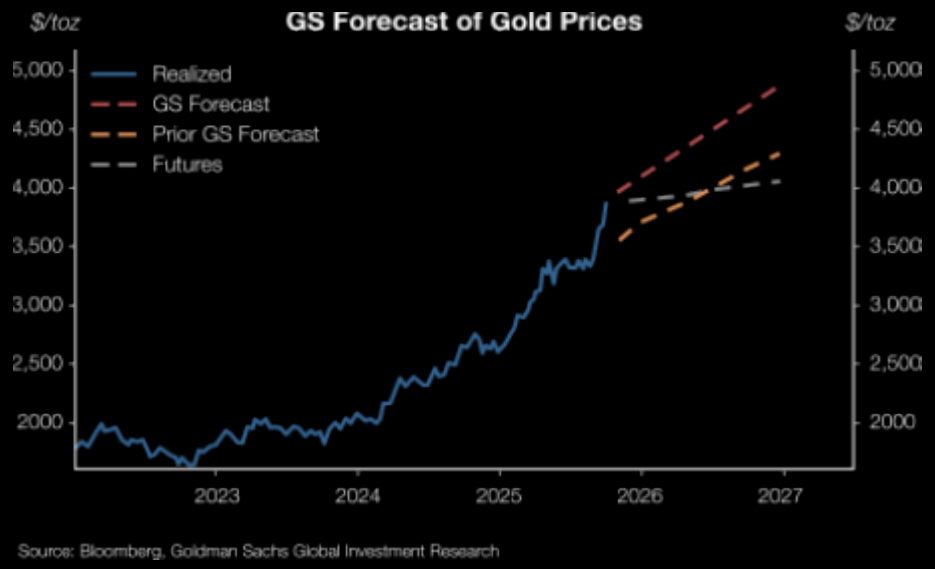
*Global eWaste Monitor, 2024

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Global E-waste is expected to reach massive scale

Companies like Microsoft, Meta, and Oracle are investing billions in AI data centers, driving demand for sustainable hardware and recycled materials

AI Chip Market will be 10x by 2035
Delivering matching gold-bearing waste yields



Source: Bloomberg, Goldman Sachs Global Investment Research

Value reaches all-time highs in H1 2025

AI chips becoming obsolete over 3-year lifespans

(Barry Neethling, Chief Technology Officer for First Technology Group)

Oct 6, 2025: Goldman Sachs raises Dec 2026 forecast to $4900/toz (vs. prior $4,300 target)

Source: https://www.reuters.com/business/goldman-hikes-december-2026-gold-price-forecast-4900oz-2025-10-07/
Chart source: https://x.com/Schuldensuehner/status/1975464387130347570

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NVIDIA

ORACLE

OpenAI

Microsoft

Meta

AMD

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More tech, fewer processing steps, faster production

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1.5 YEARS

Urban Sourced Feedstock, Data-driven, Strategic, Streamlined, Sustainable, Vertically Integrated, Reusable, Sustainable…

Increased Efficiency; Faster Production

=

1.5 years to production
$17.5M Allocated Capex
136 g/t Grade Extracted

Traditional Gold Mining

15.7 YEARS

Exploration & Discovery	Feasibility Studies	Permitting & Approvals	Construction & Development	Production Begins
Discovery-to-mine success rate (1 in 10,000)	Lengthy, inefficient, expensive	Complex, slow government processes	Single-use, lengthy, inefficient, expensive	High OPEX, less efficient, resource depletion

=

15.7 years to production
$375+ million
~1.5 g/t

Bonakdarpour, M., Hoffman, F., Rajan, K., & S&P Global Market Intelligence. (2024). Mine development times: The US in perspective. In National Mining Association of the US, M. Bonakdarpour, F. Hoffman, K. Rajan, K. Alexova, K. Skrzypek, K. Murphy, & P. Manalo, S&P Global. https://cdn.ihsmarkit.com/www/pdf/0724/SPGlobal_NMA_DevelopmentTimesUSinPerspective_June_2024.pdf?utm_source=chatgpt.com . https://www.spglobal.com/market-intelligence/en/news-insights/research/discovery-to-production-averages-15-7-years-for-127-mines?utm_source

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Validated Process at Our North Carolina Demonstration Facility



STEP 1

E-waste from Qualified Recyclers

Secure high grade raw materials through certified vendor contracts to ensure consistent quality and quantities.

Sort and stockpile components, and shred bare printed circuit boards (PCBs).



STEP 2

Transform E-Waste at Pre-Concentrator Plant

Factory-proven, proprietary process separates and recovers commodity metals from barren plastics.

Key product – valuable upgraded Metallic-Sands-Concentrate (MSC) stream.

Almost all of the water used in the pre-concentration process is recovered, recycled, and re-used, and we have not discharged any water to date.



STEP 3

Shipping of Concentrates

Barren plastics are transported to downstream third-party recyclers and certified waste handlers.

Concentrate is sold as a partially refined product or transported to our Aqueous Purification Plant.



STEP 4

Aqueous Purification Plant

Extraction & processing to isolate and enrich metals for immediate sale directly into US and International supply chains.



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Value Proposition

Average Potential Contained Metal Value: $14,866

Equivalent to 6 ounces of gold (gold-equivalent-ounces, GEOs), at $2,500 / oz Au
Per tonne of waste printed circuit boards (pcb's) in us$

Au	GOLD @136gpt $10,934	Ag	SILVER @619gpt $597	Pd	PALLADIUM @60gpt $1,929	Cu	COPPER @15% $1,406

*Based on $2,500 Au, $30 Ag, $1,000 Pd, and $4.25 Cu. Not including secondary metals – Ex. Al, Zn, Ni, Li, REEs, etc.

KEY VALUE DRIVER

E-waste can deliver up to 100 times better grades than traditional mined ores.

(Based on published literature)

	Reserve Grade (g/t)	Au-Value ($USD/t)	Market Cap. ($USD)
Newmont[1]	1.04	$84	$95B (2026.07.20)
Barrick[2]	0.98	$79	$82B (2026.07.20)

[1] https://www.newmont.com/investors/news-release/news-details/2026/Newmont-Reports-2025-Mineral-Reserves-of-118-2-Million-Gold-Ounces-and-12-5-Million-Tonnes-of-Copper/default.aspx

[2] https://www.barrick.com/English/operations/mineral-reserves-and-resources/default.aspx

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Reproducible Results
2024-25 YTD Demo-Sales

SETTLEMENT DATE	LOT WEIGHT (LB)	GOLD-EQUIVALENT-OUNCES SOLD PER TONNE OF FEEDSTOCK PROCESSED (GEOs)
12/21/2023	1,473	3.67
1/10/2024	1,059	3.70
2/27/2024	1,416	2.52
3/15/2024	865	2.85
4/1/2024	878	7.48
4/12/2024	1,158	4.81
4/23/2024	839	8.33
5/20/2024	1,599	8.53
6/19/2024	1,336	5.43
6/25/2024	950	4.56
7/19/2024	2,386	4.37
8/6/2024	874	5.06
8/23/2024	1,681	5.71
9/12/2024	1,289	13.61
11/13/2024	1,495	1.84
12/23/2024	959	5.92
1/21/2025	1,216	1.35
2/20/2025	841	10.04
2/26/2025	1,059	1.42
6/24/2025	782	7.80
7/8/2025	1,194	3.60
7/17/2025	894	1.58
7/30/2025	841	4.06

*GEOs based on commodity prices at the date of sale

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Results Drive Growth

Results are fully consistent with overall performance objectives

- Each tonne processed is envisioned to yield 4 - 6 Gold-Equivalent-Ounces (GEOs) of metal product.

Growth Strategy

- Ramp-up current production to 1 tonne/day.
- Expand current active plant to 24 tonnes/day.
- Add 1 concentrator plant per year over years 2 to 5.

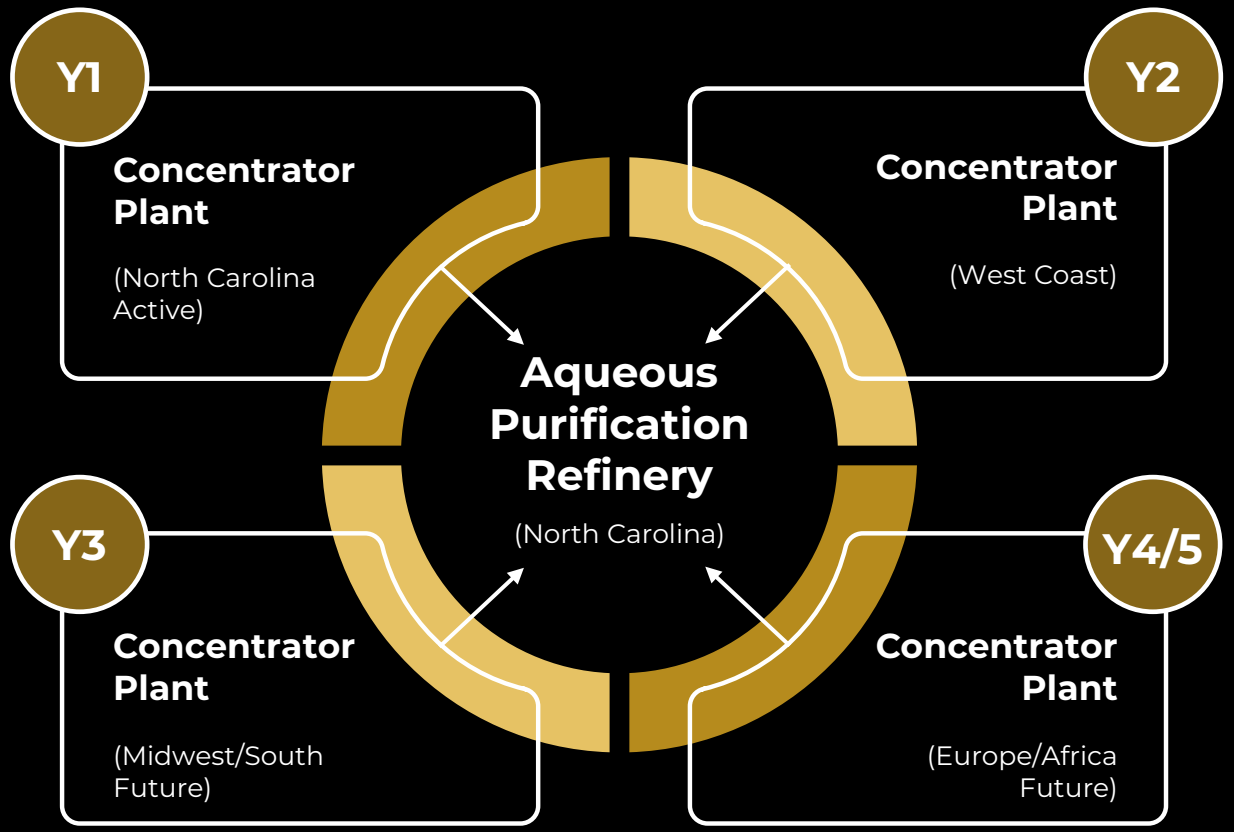
Est. Annual Yield*

Year-1 40,000 GEOs

Year-5 200,000 GEOs

Anticipated Daily Yield Per Concentrator Plant (Approx.)*

90 GEO GOLD/DAY



405oz. SILVER/DAY | 40oz. PALLADIUM/DAY | 6,920lb COPPER/DAY

33 GEOs/Day**

* Based in internal testing, at 332 operating days per year, at full commercial processing rate of 8,000 tonnes / year.

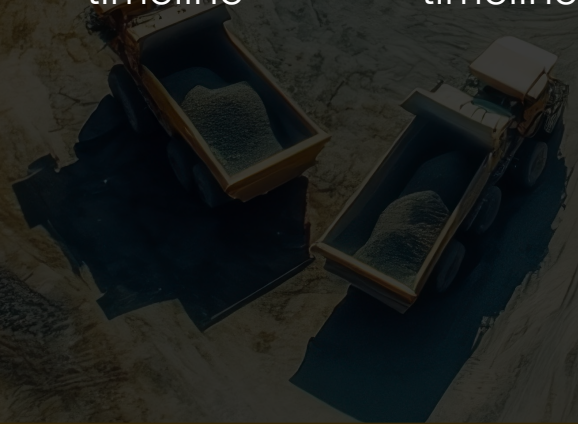
** At $2,500 oz AU, $30 oz AG, $1000 oz Pd, $4.25 Cu 92% recovery, 92% payables.

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Our Competitive Advantage & Key Differentiators

Versus Traditional Mining

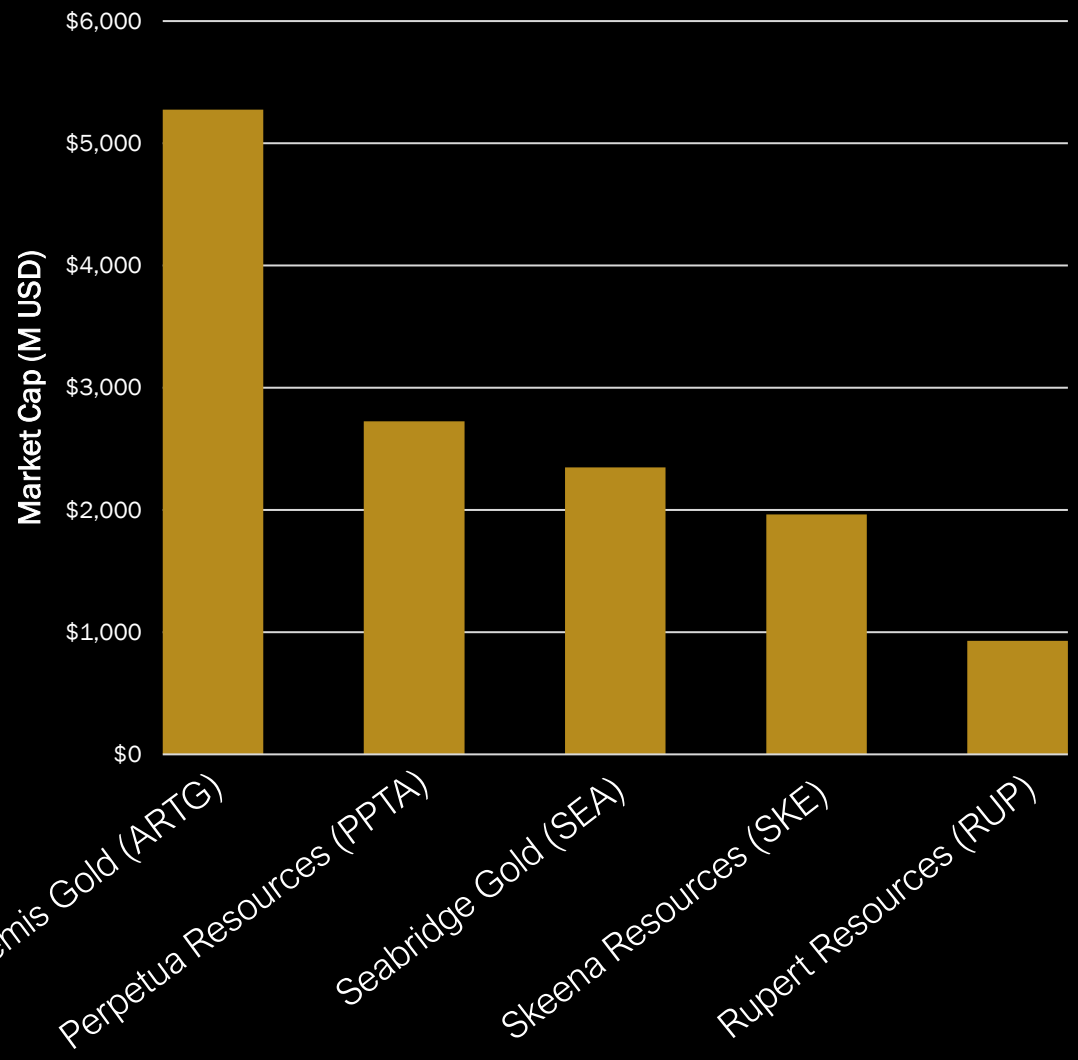
- ✓ 100x richer feed grade
- ✓ 70x lower capex
- ✓ 10x faster permitting timeline
- ✓ 5x faster construction timeline
- ✓ Lower environmental footprint
- ✓ Lower exploration, geological, and geopolitical risk.



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Select Public Company Comparables

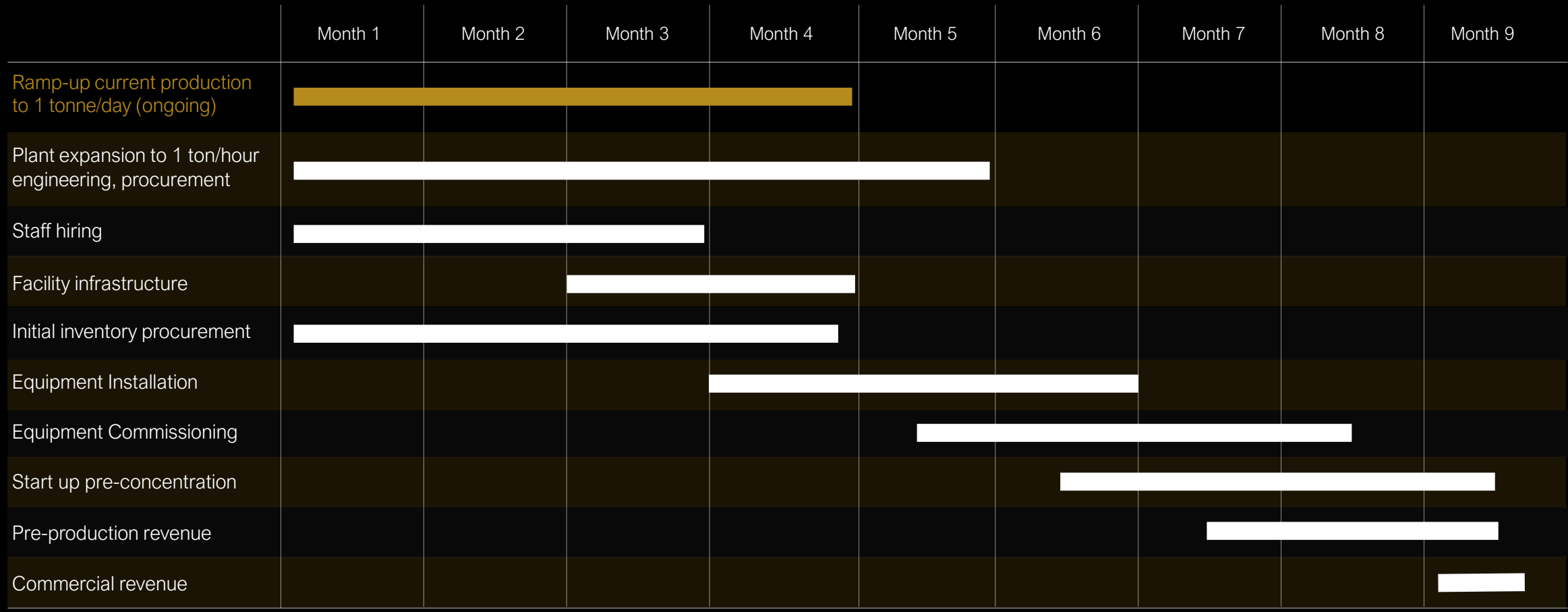
Advanced gold developers are poised to achieve near-term annual production of 200,000 to 300,000 ounces of gold.



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Operational Timeline

Milestones Roadmap: from Funding to Sustainable Commercial Revenue



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Management & Operations Team

KULJIT (JEET) BASI

CEO, President, & Director



Experienced 17-year mining industry professional.

Technical leadership experience global public mining companies including Newmont, Goldcorp and Teck Resources.

Extensive due-diligence knowledge in M&A.

Bachelor of Applied Science in Mining and Mineral Process Engineering from the University of British Columbia with a Minor in Commerce.

AUSTIN THORNBERRY, CPA, CA

Chief Finance Officer



Seasoned Chief Financial Officer and finance professional with a background in advising new companies in the venture capital market.

Extensive experience with high-growth companies across numerous industries with the Technology & Innovation banking group at the Bank of Montreal.

Served as an auditor in the financial services arm of Ernst & Young advising on multiple capital markets transactions.

DAVIN GORDON

Procurement Manager



Over 16 years of procurement and management experience in the scrap and recycling industries.

Experienced with commodity and precious metals, including procurement in technology, aviation, and military supply chains.

A seasoned business executive in dynamic leadership roles.

Recently Vice-President of Procurement at Conecsus Aerospace.

DARRELL CAMPANELLA

General Manager



Experienced production operations leader with 25 years' experience working in the precious metals refining, automotive and chemical industries, including Metallix.

Skilled in operations management, root cause analysis, continuous improvement and ISO standards.

Strong quality assurance professional with a Master's of Science degree focused in chemistry from East Carolina University.

Teck Ausenco GOLDCORP CONECSUS AEROSPACE DENSO Corporation DENSO LithiumAmericas Newmont metallix

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Board of Directors



MARK ZORKO
CHAIRMAN OF THE BOARD

Compliance Officer
Technology Industry veteran
Extensive governance experience (NASDAQ)



KULJIT (JEET) BASI
DIRECTOR

Company CEO & President
Corporate technical services and project development - Newmont, Goldcorp, Teck



MATTHEW CHATTERTON
INDEPENDENT DIRECTOR

Chair, Compensation Committee
Chemical Process Engineer, International mining and management experience: Canada, China, Bulgaria, Philippines



SEAN BROMLEY
INDEPENDENT DIRECTOR

Chair, Audit Committee
Capital Markets, Financing

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Investment Highlights



- E-waste and scrap AI chips are a nearly limitless resource, representing a multi-billion-dollar annual industry. AND GROWING.
- Proven leadership team with track record of delivery and execution.
- Markets are trending favorably with highest ever gold values, government and corporate recycling mandates, plus rapid AI expansion goals.
- Demonstrated and validated process at industrial scale, with proven production, sales & revenue.

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Forward – Looking Statement

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FORWARD-LOOKING STATEMENTS are not guarantees of future performance and involve risks, uncertainties and assumptions, which are difficult to predict. Assumptions underlying Modern Mining’s expectations regarding forward-looking statements or information contained in this Presentation include, among others, Modern Mining’s ability to comply with applicable governmental regulations and standards, its success in implementing its strategies, achieving its business objectives, the ability to raise sufficient funds from equity financings in the future to support its operations, and general business and economic conditions. The foregoing list of assumptions is not exhaustive. Prospective investors reading this Presentation are cautioned that forward-looking statements are only predictions, and that Modern Mining’s actual future results or performance are subject to certain risks and uncertainties including: risks related to Modern Mining’s history of losses, which may continue in the future; risks related to increased competition and uncertainty related to additional financing that could adversely affect its ability to attract necessary capital funding in the future; risks related to its officers and directors becoming associated with other processing or recycling companies, which may give rise to conflicts of interest; uncertainty and volatility related to stock market prices and conditions; further equity financing(s), which may substantially dilute the interests of Modern Mining’s shareholders; risks relating to its technical operations; dependence on general economic, market or business conditions; changes in business strategies; environmental risks and remediation measures; and changes in laws and regulations.

FORWARD-LOOKING ASSUMPTIONS/ESTIMATES in this Presentation reflects Modern Mining’s current views with respect to future events and are necessarily based upon a number of assumptions and estimates that, while considered reasonable by Modern Mining, are inherently subject to significant business, economic, competitive, political and social uncertainties and contingencies. Many factors, both known and unknown, could cause actual results, performance or achievements to be materially different from the results, performance or achievements that are or may be expressed or implied by such forward-looking information contained in this Presentation and documents incorporated by reference, and we have made assumptions based on or related to many of these factors. Such factors include, without limitation: fluctuations in spot and forward markets for certain mineral and metal commodities such as gold, silver, platinum, zinc, aluminium, copper and tin (and others); laws and regulations governing our operation and development activities; its ability to obtain or renew the licenses and permits necessary for the development, construction and commencement and continuation of operations; risks and hazards associated with the business of process engineering construction, (including environmental hazards and industrial accidents); environmental regulations and legislation; the effects of climate change, extreme weather events, and seismic events, and the effectiveness of strategies to deal with these issues; risks relating to Modern Mining’s operations; fluctuations in currency markets (such as the US dollar versus the Canadian dollar); the volatility of the e-waste recycling markets; Modern Mining’s ability to recruit and retain qualified personnel; employee relations; supply of materials and supply chain disruptions; relations with and claims by indigenous populations; relations with and claims by local communities and non-governmental organizations; the effectiveness of its internal control over financial reporting; claims and legal proceedings arising in the ordinary course of business activities.

Forward-looking information is made based on management’s beliefs, estimates and opinions and are given only as of the date of this Presentation. Modern Mining undertakes no obligation to update forward-looking information if these beliefs, estimates and opinions or other circumstances should change, except as may be required by applicable law. Current and potential investors should not place undue reliance on forward-looking statements due to the inherent uncertainty therein. All forward-looking information is expressly qualified in its entirety by this cautionary statement.

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Forward – Looking Statement

FUTURE ORIENTED FINANCIAL INFORMATION This Presentation also contains future-oriented financial information and financial outlook (collectively, "FOFI") about the company's forecasted earnings per concentrator, which is subject to the same assumptions, risk factors, limitations, and qualifications as set forth in the above paragraphs. FOFI contained in this Presentation was made by management as of the date of this Presentation and was provided for the purpose of providing readers with an understanding of the importance of such concentrators to the company's business, and are not an estimate of profitability or any other measure of financial performance. Readers are cautioned that the FOFI contained in this document should not be used for purposes other than for which it is disclosed herein. Modern Mining disclaims any intention or obligation to update or revise any FOFI contained in this Presentation, whether as a result of new information, future events or otherwise, unless required pursuant to applicable law. FOFI contained in this Presentation should not be used for purposes other than for which it is disclosed herein. The company's Chief Executive Officer and Chief Financial Officer approved the FOFI contained in this Presentation on October 1, 2025.

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America's
Gold Mine
of the Future

NYSE AMERICAN: MDRN

Thank You

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