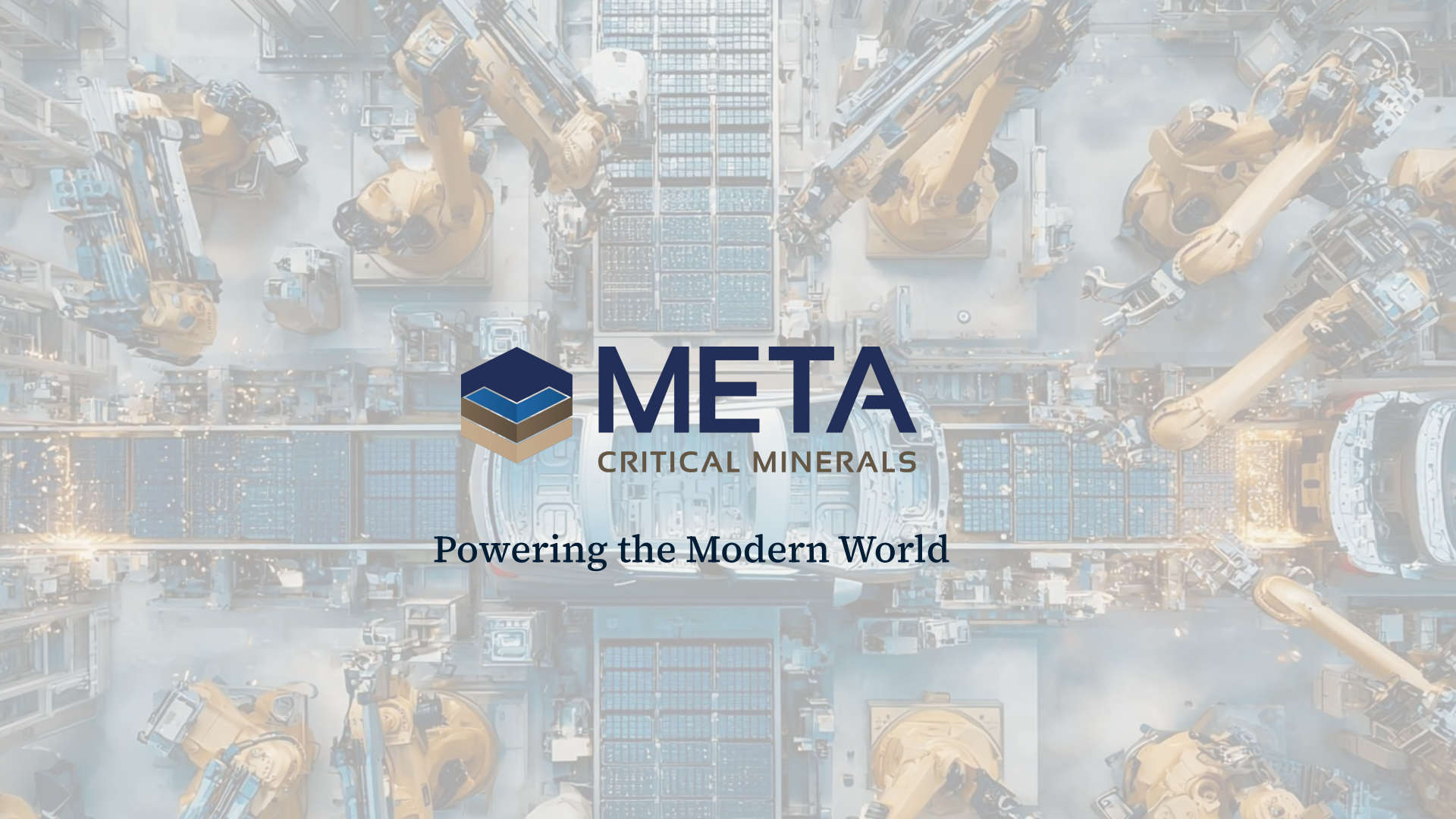

META
CRITICAL MINERALS
Powering the Modern World

DISCLAIMER

Certain statements contained in this presentation constitute "forward-looking statements" within the meaning of applicable Canadian securities legislation. Such forward-looking statements herein may include but are not limited to:

- Interpretations of exploration results
- Strategic plans and expectations for the development of the Company's properties
- Costs, financial information including budgets, metal price assumptions, cash flow forecasts, internal rate of return, projected capital and operating costs
- Technical results and assumptions including metal recoveries, mine life and production rates
- Intended use of proceeds

Assumptions

Such forward-looking statements and related information are based on a number of assumptions which may prove to be incorrect. Assumptions have been made regarding, among other things:

- Conditions in general economic and financial markets
- Availability to realize historical technical data and develop and finance the projects
- Accuracy of the interpretations and assumptions used
- Availability of mining or exploration equipment
- Availability of skilled labour
- Timing and amount of capital expenditures
- Laboratory and other related services are available and perform as contracted
- Changes of regulation by governmental agencies
- Delays caused by pandemics and any related local or international protocols and travel restrictions

Risk Factors

The actual results could differ materially from those anticipated in these forward-looking statements as a result of the risk factors set forth below and elsewhere in this presentation. Risk factors may include, but are not limited to:

- The availability of funds
- The timing and content of work programs
- Results of exploration activities and the development of mineral properties
- The interpretations of exploration results including drilling data
- The uncertainties of resource estimations
- Project cost overruns or unanticipated costs and expenses
- Uncertainty as to actual capital costs, operating costs, production and economic returns
- Uncertainty that development will result in a profitable mining operation at any of the Company's projects
- Reliance on historical NI43-101 technical report/s
- Fluctuations in commodity prices and currency exchange rates
- Political and economic risks
- General market and industry conditions

Disclaimer on Management Statements

Forward-looking statements are based on the expectations and opinions of the Company's management on the date the statements are made. The assumptions used in the preparation of such statements, although considered reasonable at the time of preparation, may prove to be imprecise and, as such, readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date the statements were made. The Company undertakes no obligation to update or revise any forward-looking statements included in this presentation if these beliefs, estimates and opinions or other circumstances should change, except as otherwise required by applicable law.

Third Party Information

Certain information in this presentation has been provided to the Company by third parties. Meta Critical Minerals shall not be deemed to make or have made any representation or warranty as to the accuracy or completeness of any such information furnished hereunder.

Regulatory Review

No securities commission or regulatory authority has reviewed the accuracy or adequacy of the information presented.

Property Context

The reader is cautioned that when reference to any mineral deposit or historic or existing mining district is made in this presentation, this is to help place the properties into geologic context and is for reference purposes only. There is no evidence to date that similar mineral resources occur on Meta Critical Minerals' properties.

Qualified Person

Under National Instrument (NI 43-101) Standards of Disclosure for Mineral Projects, the Qualified Person for the technical portion of this presentation is Ted Vanderwart P.Geo, for Meta Critical Minerals, who has reviewed and approved its contents.

META CRITICAL MINERALS

Powering the Modern World



Meta Critical Minerals is advancing a focused portfolio of critical mineral projects aligned with the materials that power modern technology, energy systems, and advanced manufacturing. **From high-purity silica to rare earth elements and specialty metals, Meta targets minerals that are mission critical for global supply chains**. Operating in stable jurisdictions, the Company is building long-term value through disciplined exploration and strategic project selection.

INVESTMENT HIGHLIGHTS

Near-Term Production Focus

Clear path to become a **cash-flowing** company **in 2026**

Structural Supply Constraints

Exposed to critical minerals with **long-term secular tailwinds** supporting strong demand and tight supply

Strong End-Market Growth

Tied to **high-growth industries**: AI, semiconductors, advanced manufacturing, clean energy, and defence

Strategic Jurisdictions

Projects located in **strategic jurisdictions** including North America and Central-East Asia

Strong Management Track Record

Leadership team has successfully **moved exploration assets into production** and raised large sums of capital

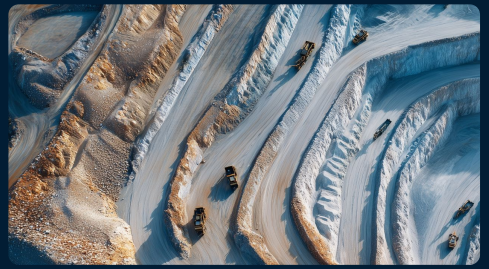
Shareholder Alignment

Management and key partners have significant ownership, **aligning incentives with shareholders**

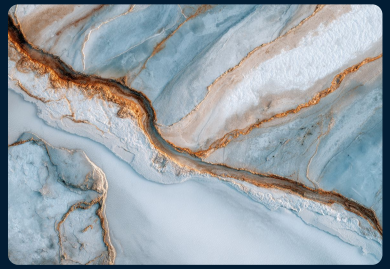
WHAT WE DO

From Exploration to Production

Meta Critical Minerals is transitioning from an exploration company to a production company in 2026, a move that will significantly increase shareholder value.







2024

Acquisition of CBGB Ventures and two high-quality silica projects.

Expansion of Lake Owen Project in Wyoming with First DDH holes.

1st Phase exploration concludes at both silica projects: Tsagaan Zalaa (Mongolia), Table Mountain (British Columbia, Canada).

2025

Massive maiden mineral resource estimation announced at Table Mountain.

Mining License secured for Tsagaan Zalaa in H2 2025; production planned for H1 2026. Resource expansion and off-take agreements ongoing.

Specialty metals (Scandium & Vanadium) discovered at Lake Owen, creating opportunities for strategic partnerships and potential US Administration involvement.

2026

Meta enters into Option to acquire Arcadia Minerals Inc, holding two deposits rich in Zircon, Titanium and Rare Earths.

Commence production of silica at Tsagaan Zalaa. Start exports via offtake agreements

Advance Lake Owen in Wyoming and engage with US Government given the strategic nature of vanadium and scandium.

Commence drilling at Table Mountain and apply for quarry production license.



Global demand for critical minerals and rare earth elements is accelerating as clean energy, electrification, advanced computing, and high-performance manufacturing scale worldwide, projected to grow by nearly 80% in just 7 years. These materials are not niche inputs — they are foundational to energy security, technological leadership, and resilient infrastructure.

CONSTRAINED SUPPLY

At the same time, supply remains highly concentrated and tightly controlled. Processing and refining capacity for many critical minerals is dominated by a small number of countries, with China controlling the majority of global refining and downstream production, as much as 90% for all critical minerals and rare earths. This concentration has introduced supply-chain fragility, geopolitical risk, and price volatility across multiple strategic materials.

STRATEGIC MINERALS

As governments and industries move to diversify supply chains and secure long-term access, attention is shifting toward high-quality projects in stable jurisdictions that can support future demand. Price forecasts and long-term market outlooks reflect this imbalance: sustained growth in demand, limited near-term supply expansion, and increasing strategic value for critical mineral assets.

Criticality... By the Numbers

Meta's portfolio is aligned with this reality — targeting materials that sit at the intersection of rising global demand and structurally constrained supply, positioning its projects within the materials system that underpins the modern economy.

78%

Market Growth in 8 years:
Critical minerals market growth:
~$328 B (2024) → ~$586 B by 2032

Current Chinese Supply Dominance:

70%

Average share of global mining

90%+

of global processing

month?

Minerals Booming: The High-Purity Silica market is expected to grow to $104.34 billion by 2030; Vanadium to reach US$81.8 billion

50+

Countries representing the majority of global GDP have classified critical minerals as strategically essential, (over US$85 billion.)

The Meta Critical Minerals Stack

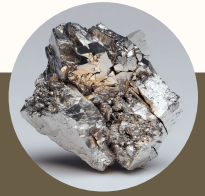


Silicon

The foundation of the digital world.

- Semiconductor chips and AI computing
- Data centers and cloud infrastructure
- Solar panels, smart grids, and power electronics

Every modern digital system begins with silicon.

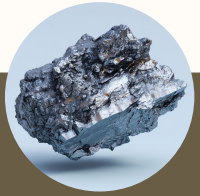


Scandium

Small additions. Outsized impact.

- Strengthens aluminum alloys while reducing weight and fatigue
- Improves performance in aerospace, defense, EVs, and hydrogen systems

Scandium is about doing more with less.



Vanadium

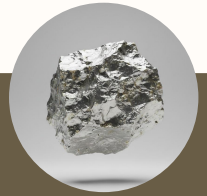
Built for strength and storage.

- Enables high-strength steel for infrastructure and energy systems
- Powers vanadium redox flow batteries for grid-scale energy storage

Vanadium links physical resilience with long-duration energy reliability.

WHAT WE DO

The Meta Critical Minerals Stack



Titanium

Where performance cannot fail.

- Aerospace and space systems
- Medical implants and devices
- Chemical processing and desalination plants
- Defence applications

Lightweight, strong, and corrosion-resistant, titanium enables extreme performance.



Gallium

Speed, power, and efficiency beyond silicon.

- 5G and satellite communications
- Radar and defense systems
- High-efficiency LEDs and lasers
- Fast-charging power electronics

Gallium enables high-frequency, high-power control.



Rare Earth Elements

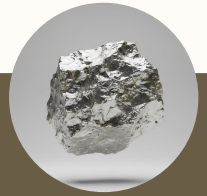
Rare earths make advanced systems possible.

- Permanent magnets for EVs and wind turbines
- Precision optics, lasers, and sensors
- Displays and advanced imaging

Rare earths convert electricity into motion, light, and control.

WHAT WE DO

The Meta Critical Minerals Stack



Zirconium

- Zirconium matters industrially because it resists corrosion in harsh environments, so very valuable in equipment exposed to water, acid, salts and high temperatures.
- Zirconium is crucial in nuclear power because zirconium alloys are used for fuel cladding, the protective barrier around reactor fuel, thanks to their strong corrosion resistance
- Zirconium is crucial in high-performance materials because zirconia (Zirconium oxide) is very tough and chemically stable, for example dental implants, thermal batteries, etc.



Monazite

- Monazite is important because it is a major source of rare earth elements like cerium, lanthanum and neodymium, which are essential for electronics, magnets, batteries, and other advanced technologies
- It matters strategically because it contains Thorium, making it relevant to nuclear energy and other energy related applications, inclusive of medical.
- Very important to geologists as it helps date geological events supporting general mineral exploration

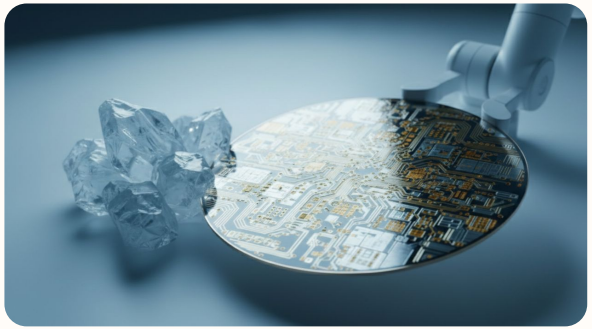
WHAT WE DO

Silicon, Critical Metals, and the Foundations of Advanced Technology

From microchips to megawatts, aerospace to artificial intelligence — modern civilization runs on a small group of extraordinary materials formed deep within the Earth.

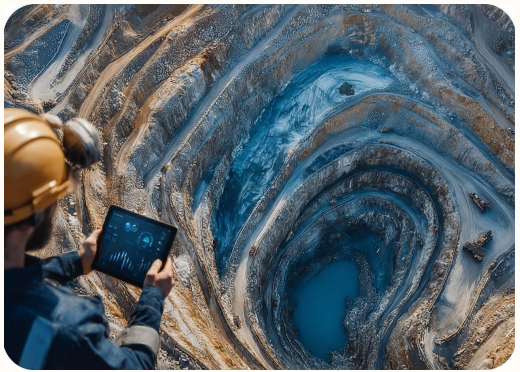
Silicon, vanadium, titanium, scandium, gallium, monazite, zirconium and rare earth elements, all key targets for Meta Critical Minerals production, are the hidden enablers of the digital economy, clean energy transition, and advanced manufacturing. They:

1. Enable computing, connectivity, and control
2. Make renewable energy scalable
3. Allow strength without weight
4. Are strategic resources for modern economies
5. Are fundamental to AI and to energy storage









META
CRITICAL MINERALS

META CRITICAL MINERALS:

Portfolio Overview

Meta Critical Minerals is building a portfolio of high-value mineral projects focused on the materials that enable modern technology, clean energy, and resilient infrastructure. Strategically located and responsibly advanced, our projects target critical inputs for a rapidly evolving global economy.

- 4 strategically selected projects across Canada, the United States, and Mongolia
- 7,000+ hectares of combined land position across high-quality mineral districts
- Focused on high-purity silica, critical metals, rare earth elements, and polymetallic systems
- Exposure to materials essential for semiconductors, clean energy, electrification, advanced alloys, and infrastructure
- Balanced portfolio spanning near-term development, advanced exploration, and discovery-stage upside
- Projects located in stable, mining-supportive jurisdictions
- Disciplined, science-driven approach emphasizing resource quality, scalability, and responsible development





Arcadia Project

NORTH-CENTRAL WYOMING UNITED STATES

FOCUS


Zircon


Titanium


Monazite

SIZE

1,831

Hectares

STATUS

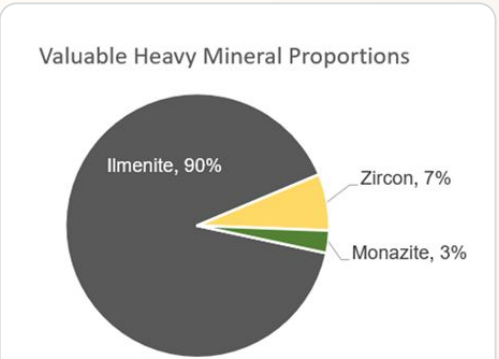
Advanced stage historical deposits

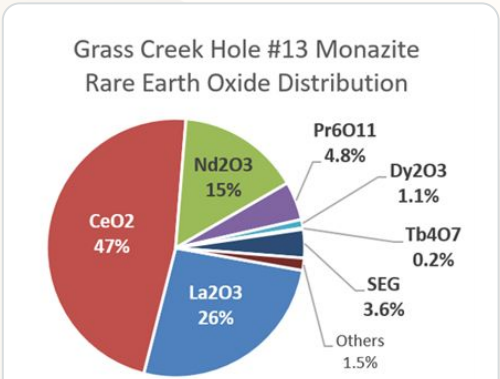
STRATEGIC HIGHLIGHTS

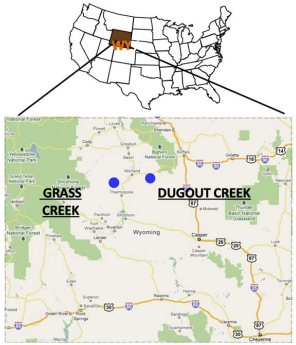
- Two deposits: Grass Creek and Dugout Creek
- Wyoming jurisdiction, strong nearby infrastructure
- Near-surface mineralisation with open-pit potential
- Ilmenite, zircon and monazite exposure

2026 VISION

Advance exploration to better define scale and grade potential, reinforcing U.S. critical-mineral supply relevance.







Grass Creek: high-grade heavy mineral sands, approx. 2.2% zircon and up to 19% titanium.
Dugout Creek: larger-tonnage system, open in multiple directions.
Previous work: 7,000 ft drilling across 60+ holes, metallurgical testing, assaying, studies and surveys.

Currently working on a major bulk sample (from Dugout Creek) and associated metallurgical and engineering optimization studies.

The Company has added an additional 309 hectares of new strategic Claims to the project in August 2026



Lake Owen

SOUTH OF LARAMIE WYOMING UNITED STATES

FOCUS


Vanadium


Titanium


Scandium

SIZE

1,433

Hectares

STATUS

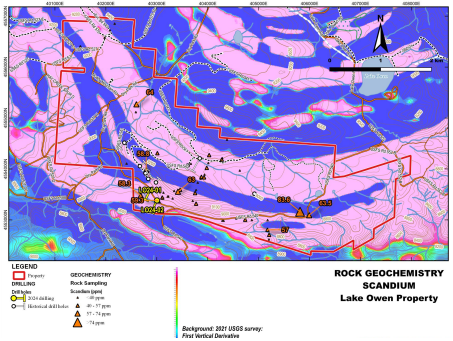
Drilling Definition Stage

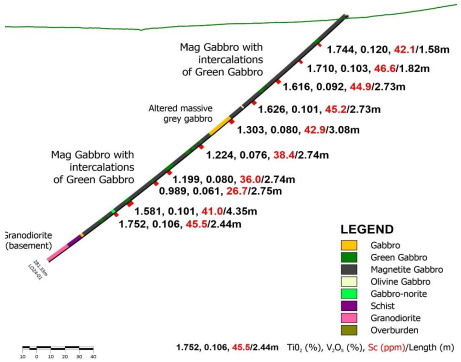
STRATEGIC HIGHLIGHTS

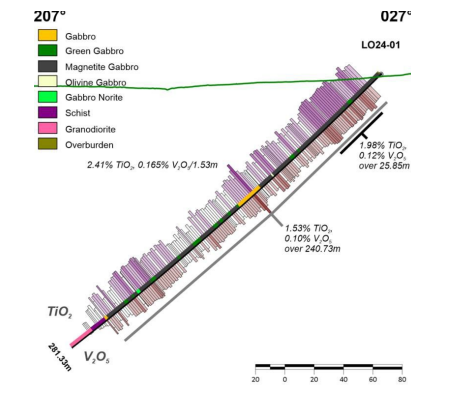
- Large layered mafic-ultramafic intrusive complex
- Exposure to high-value scandium alongside vanadium and titanium
- Located in a stable U.S. jurisdiction
- Aligns strongly to US interests to secure national supply of critical minerals.

2026 VISION

Advance exploration to better define scale and grade potential, reinforcing U.S. critical-mineral supply relevance.







Two diamond drill holes targeted titanium (TiO2) and vanadium (V2O5) mineralization associated with magnetite in gabbro, as well as potential reef style platinum group element mineralization.
First Hole Drilled, L024.01: 240.73 continuous meters almost from surface, including:

- _1.53% TiO2
- _0.10% V2O3 (Vanadium)
- _16.0% Fe (total Iron, mainly in Fe Oxides)
- _69.7 ppm (or g/t) Sc2O3 (Scandium)
- _26.2 ppm (or g/t) Ga2O3 (Gallium)



Table Mountain

GOLDEN BRITISH COLUMBIA CANADA

FOCUS



High Purity Silica

SIZE

2,304

Hectares

STATUS

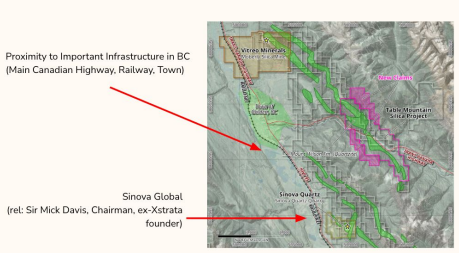
Advanced Exploration

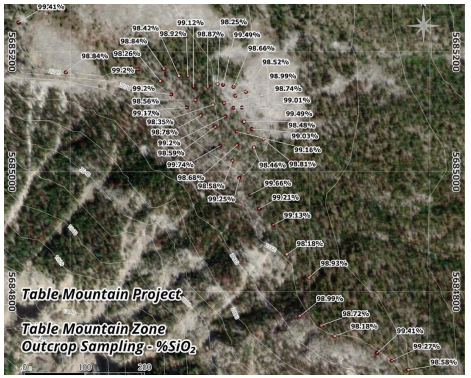
STRATEGIC HIGHLIGHTS

- Large, laterally continuous quartzite body with in-situ metal value close to US$6 billion
- Excellent access to rail, highway, and infrastructure (trans/Canada highway intersects the property)
- Positioned for North American industrial markets
- Strong partnerships with local and regional authorities

2026 VISION

Advance toward near-term production readiness, expand the resource footprint, and position as a domestic supplier of high-purity silica. Prepare a preliminary economic assessment and apply for a mining permit.





Gross in-Situ Resource Value: US$5.7 billion

Three distinct zones of high-purity silica mineralization identified within the Mount Wilson Quartzite Formation. NI-43101 Mineral Resource Estimate (announced & filed in 2025)

Zone	Category	Tonnage (t)	Grade (% SiO_2)
Table Mountain	Inferred	**56,945,602**	**98.91**

Overall analytical sampling results range from 95.82% to 99.82% SiO_2

Very low deleterious elements identified in all samples.





Tsagaan Zalaa

DORNOGOVI PROVINCE MONGOLIA

FOCUS



Rare Earth Elements

SIZE

1,670

Hectares

STATUS

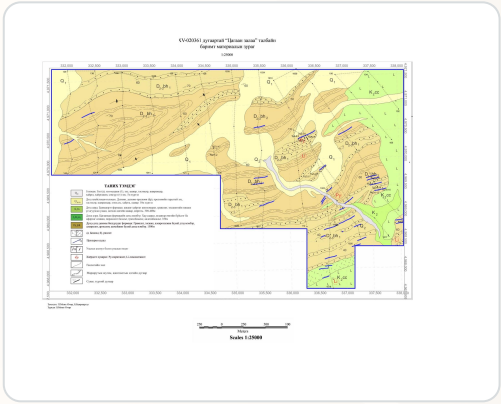
Mining License and Pre-Production Development

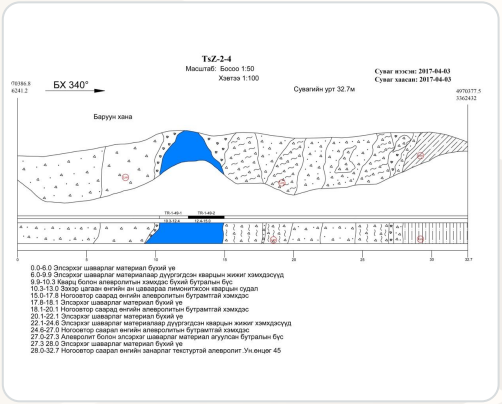
STRATEGIC HIGHLIGHTS

- Exceptionally high-grade surface silica (>99%), suitable for the most complex refined tasks
- Minimal overburden and straightforward extraction
- Proximity to rail and major Asian end-markets
- Mining License approved and off-take discussions in advanced status
- Active support of local communities

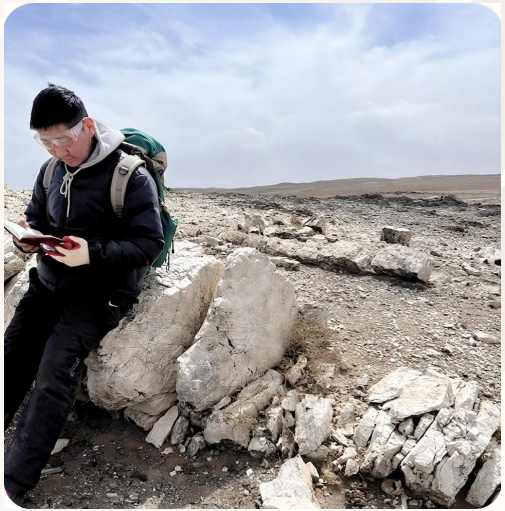
2026 VISION

Secure a full mining permit and transition into initial production targeting Asian industrial and technology markets.





- The geological setting suggests monomineralic quartz zones — a favourable host for high-purity silica material.
- 7 trenches totalling 152 m have been completed across six quartz veins.
- Extensive quartz veins with widths up to 5–10 m and consistent high-grade quartz confirmed via trenching and historical sampling.
- Bulk sample processed by an independent offtaker returned ~99.98% SiO_2, indicating strong product quality potential for premium silica markets (e.g., glass, solar, semiconductor).





CEO, DIRECTOR

Rana VIG

A Proven Leader with Significant Experience in Mining Execution and Capital Markets.

Significant Stakeholder: Rana Vig has an ownership position representing ~7% of Meta Critical Minerals.

Blue Lagoon Resources

Blue Lagoon owns 100% of the Dome Mountain Mine, a high-grade gold-silver project with significant exploration potential in British Columbia, Canada. As Founder and CEO of Blue Lagoon, Rana Vig acquired Dome Mountain in 2020 and since then, has raised more than $30 million to advance the project.

He, alongside a technical team he assembled, was responsible for securing a mining permit in February 2025 - 1 of only 9 mining permits issued in British Columbia in the last 10 years. Blue Lagoon successfully commenced production at Dome Mountain in September 2025.

The Prospectors & Developers Association of Canada, the world's leading mining and mineral exploration association best known for hosting the PDAC Convention in Toronto, the largest and most influential mining conference in the world, awarded Blue Lagoon with the 2026 Sustainability Award, recognizing strong the company for its environmental stewardship and meaningful engagement with First Nations stakeholders.

Under Rana Vig's guidance, the company is on track to unlock substantial value for shareholders.

Curaleaf Holdings Inc

Executed a $5 billion-plus reverse takeover in 2018 which included a $520 million financing round, the largest Canadian cannabis financing at the time.

Harvest Health & Recreation

Led the restructuring of Rockbridge Resources, which acquired Harvest Health & Recreation through a $2 billion-plus reverse takeover. The transaction included a $300 million financing, the third-largest cannabis financing in 2018.

META CRITICAL MINERALS



PRESIDENT

Yannis Tsitos

An Executive with Strong Industry Experience and Technical Expertise.

Significant Stakeholder: Yannis Tsitos has an ownership position representing ~2% of Meta Critical Minerals.

Deep Technical & Management Knowledge

- In excess of 35 years experience in the mining industry
- Physicist – Geophysicist (MSc), business development, finance and management, corporate and leadership positions
- 19 years with the BHP-Billiton Group, the biggest mining corporation in the world, inclusive of 8 years as New Business Investment Manager for the Global Mineral Exploration Team with a global reach.
- Has done work on 11 different commodities
- Has been part of numerous Board of Directors, currently sitting on 5 Boards as Independent Director and/or Chair of Audit & Corporate Governance committees.

Global Network & Risk Management

- Done mineral exploration, project execution, negotiations, development and finance in 32 countries in all continents, lived in 5 countries, speaking 3 languages.
- Has negotiated and executed in excess of 60 exploration and mining agreements with juniors majors and state corporations. Has raised in excess of $175M in juniors financings
- Expert in risk management and project financial modelling/analysis in foreign jurisdictions
- Strong advocate in anti-corruption policies in the mining industry, has written and published articles in exploration and mining magazines and publications.

Success Record – Delivering Discoveries & Mines:

- Within BHP, he has been part of two major discovery teams (now 3 active mines) in copper and nickel (Ecuador and Australia)
- Within the junior venture capital industry, he has delivered two discoveries (one an existing mine, one in development) in gold and industrial minerals (Guyana).



CEO, DIRECTOR

Rana VIG

Held key leadership roles in multiple publicly traded companies. Most notably, at Blue Lagoon Resources, the newest producing gold-silver mine in British Columbia.



DIRECTOR

Gurdeep Bains

CPA with significant experience in auditing and assurance services. Leadership & executive roles with various entities, including KPMG, Zennabis, Canaccord, OK Tires.



DIRECTOR

Norman Brewster

Deep experience in mining industry from technical to financing roles. Developed the Aguas Tenidas Mine, Spain, Acquisition of Iberian Minerals by Trafigura ($498M)



CPA, CFO

Regina Lara Yunes

Professional accountant with experience in both private and public trading companies in Canada.

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Share Structure

135,360,205	Shares issued
43,868,907	Warrants
12,690,000	Options & RSUs
191,919,112	Shares Fully Diluted

Corporate Information

Exchanges/Tickers	CSE: MTTA
CUSIP	59100N104
ISIN	CA59100N1042
Year Founded	May 31, 2018
Financial Year end	May 31
Transfer Agent	Odyssey Trust Company
Company Founded/Jurisdiction	Canada,British Columbia

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CRITICAL MINERALS

Modern mining is about relevance, precision and responsibility

THANK YOU!

CONTACT US

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Phone: +1 604-218-4766 or +1-604-418-9561

WEBSITE

Visit www.metacriticalminerals.com for the very latest information.