



DEDICATED TO DISCOVERING  
CRITICAL MINERALS TO MEET  
THE GLOBAL RISING DEMANDS

2024 COMPANY PRESENTATION  
CSE: INTG | FSE: ZK9

# Legal Disclaimer



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The scientific and technical information contained in this Corporate Presentation relating to the KAP Project has been reviewed and approved by Dr. Jared Suchan, P. Geo, the Vice President, Exploration, of the Company and a “Qualified Person” as defined by National Instrument 43-101. For further information regarding the Kap Project, including further details regarding the exploration discussed in this presentation, such as sample, analytical and testing results, data verification measures and quality assurance/quality control measures, please see the Company’s technical report with respect to the Kap Project entitled “Technical Report on the KAP Property, Mackenzie Mountains, Northwest Territories, Canada” filed on the Company’s SEDAR+ profile at [www.sedarplus.ca](http://www.sedarplus.ca) on July 4, 2024.

The scientific and technical information contained on this Corporate Presentation relating to the Burntwood Project has been reviewed and approved by Dr. Jared Suchan, P. Geo, the Vice President, Exploration, of the Company and a “Qualified Person” as defined by National Instrument 43-101.

# Investment Highlights

## Critical Minerals Commodity Supply Risk Assessment



China currently controls the global supply of rare earth metals, gallium and germanium and have recently imposed export limits of these critical minerals. Integral Metals is exploring two properties with the goal of contributing to the development of a domestic supply chain for these minerals.

- ✓ Canada and the US will collaborate to develop their own **robust gallium supply chains, reducing dependence on China** and ensuring access to this critical mineral amidst export restrictions.
- ✓ Major Companies such as **NVIDIA** capitalize on gallium innovation for their high-performance AI solutions, requiring a stable and secure source of gallium to meet demand.
- ✓ **Strategic Placement in mining-friendly jurisdictions** enhances stability and regulatory support for all properties.
- ✓ China processes and refines nearly **90 percent of the world's rare earths**, giving them a **monopoly** in the sector.
- ✓ The IEA forecasts global demand for rare earth metals will **increase by much as seven-fold** over the two decades to 2040, underpinned by world's transition from **carbon-intensive energy production**.
- ✓ Canada and the US signed a **partnership** to strengthen the resilience of **Critical Mineral and Semiconductor supply chains**.



Source: Center For Strategic and International Studies (CSIS) – Mineral Monopoly – China’s Control over Gallium Is a National Threat U.S. Geological Survey (USGS) • Adapted from a 2021 USGS report “Methodology and Technical Input for the 2021 Review and Revision of the U.S. Critical Minerals List.” The disruption potential (horizontal axis), economic vulnerability (vertical axis), and trade exposure (point size), are the inputs used by USGS to calculate the overall supply risk.



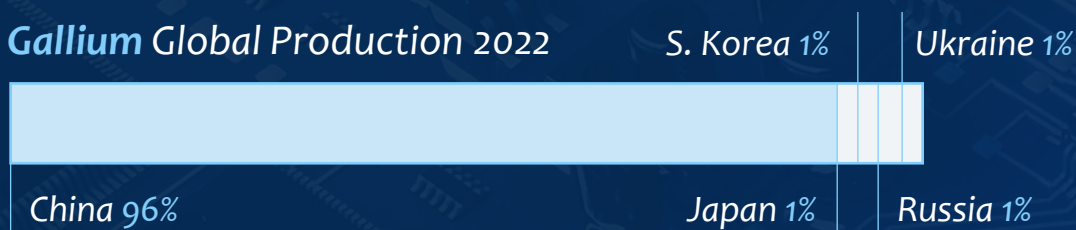
# Gallium

## Critical to Modern Economies

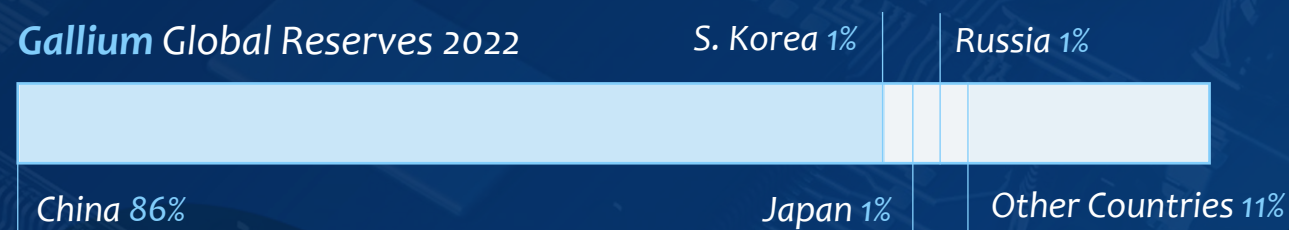
### Gallium Applications

Electronics	Networking & Comms	Consumer	Data Processing	Healthcare	Automotive	Military
<ul style="list-style-type: none"> <li>✓ Red LEDs</li> <li>✓ Solar Panels</li> </ul>	<ul style="list-style-type: none"> <li>✓ Semiconductors</li> </ul>	<ul style="list-style-type: none"> <li>✓ LEDs</li> </ul>	<ul style="list-style-type: none"> <li>✓ Computer Chips</li> <li>✓ Transistors</li> </ul>	<ul style="list-style-type: none"> <li>✓ Cancer and Malara Chemotherapy</li> <li>✓ Dental Materials</li> </ul>	<ul style="list-style-type: none"> <li>✓ Electric Vehicles</li> </ul>	<ul style="list-style-type: none"> <li>✓ Defense System</li> <li>✓ Radar</li> <li>✓ Microelectronics</li> </ul>

Gallium Global Production 2022



Gallium Global Reserves 2022



Sources U.S. Geological Survey, January 2023, Mineral Commodity Summaries



# Gallium Plays a Unique Role in Modern Military Systems

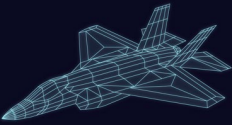
The United States and other advanced economies purchase gallium from China and refine it further for use in commercial and military applications.

Gallium compounds are key inputs to some advanced U.S. defense systems and, by extension, the DOD supply chain.



Gallium-based semiconductors are vital to the U.S. defense industry, particularly in next-generation missile defense and radar systems, as well as electronic warfare and communications equipment.

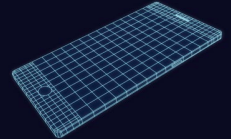
GaN (Gallium Nitride) is foundational to nearly all the cutting-edge defense technology that advanced countries produce.



### Radio Frequency (RF)

Chips made with gallium are used as power amplifiers to boost the signal power of high-frequency transmitters and receivers.

Uses: Phased-array radars; electronic warfare systems; satellite communications systems; 5G wireless base stations; mobile phones



### Optoelectronics

Due to their direct bandgap, gallium-based chips can efficiently convert electricity to visible light.

Uses: LIDAR; infrared/ultraviolet lasers

Sources Features CSIS, Hidden Reach: Understanding China's Gallium Sanctions

# Gallium Market



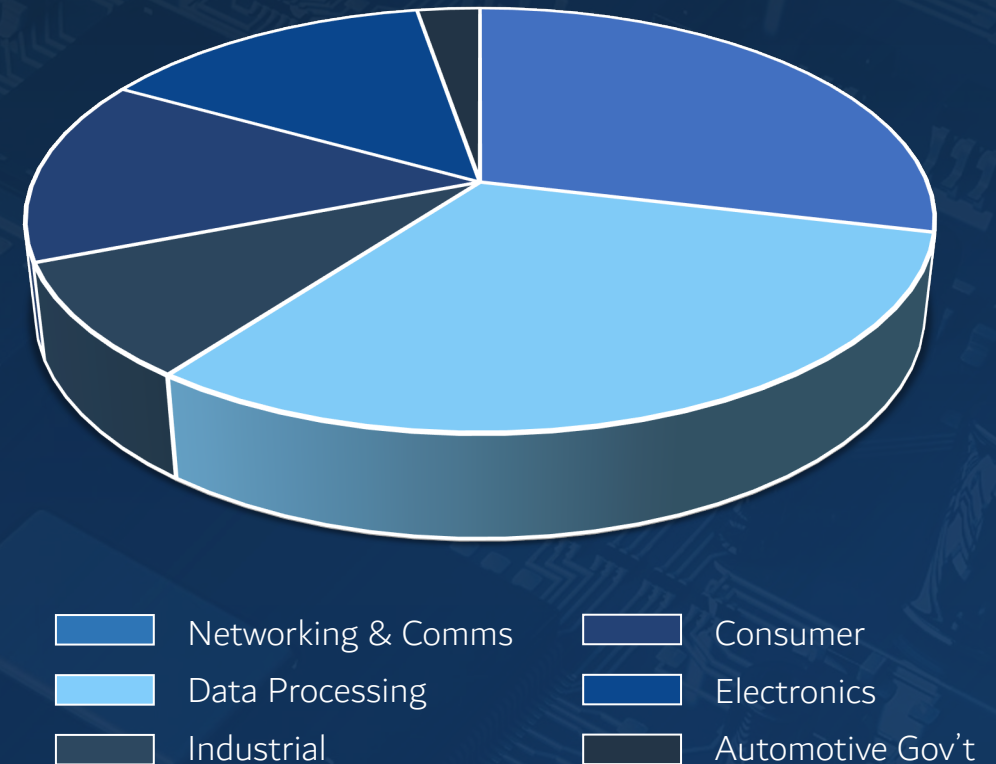
## Gallium Market Analysis

By Market Players, 2022-2023



- ✓ Gallium compounds are used in semiconductor materials, optoelectronic devices (e.g., laser diodes, light-emitting diodes photodetectors, and solar cells), cancer and malaria chemotherapy, antimicrobial, and dental materials.
- ✓ The growing use of Gallium in the electronics sector is propelling sales opportunities in the market.
- ✓ North America is estimated to hold the leading position in the global gallium market. This is due to the rise in demand of electronic consumer goods.

## Global Semiconductor Market Share By Application



### Sources

Persistence Market Research, September 2022: Gallium Market

Fortune Business Insights, April 2022: Market Research Report

Science Direct, 2022: Gallium and Gallium Semiconductor Compounds

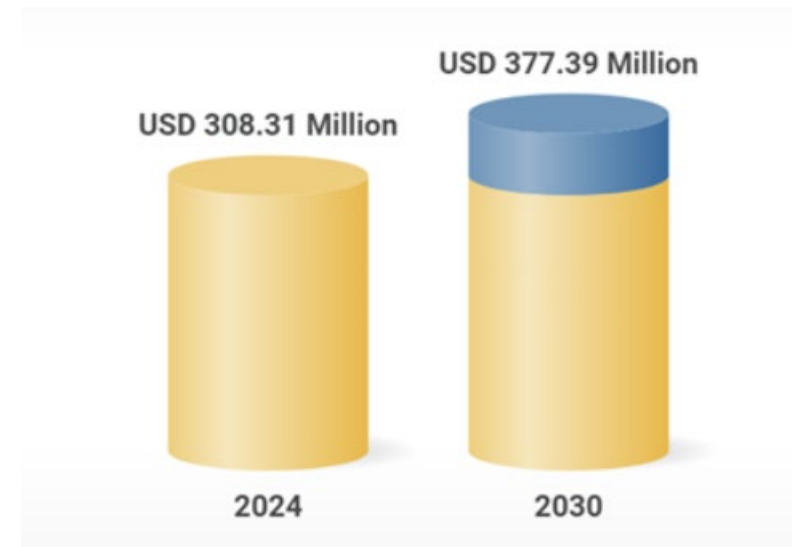
# Germanium Market



- ✓ The largest use of germanium is in the semiconductor industry. Combined with small amounts of arsenic, gallium, indium, antimony, or phosphorus, it is used to make various electronic device components.
- ✓ Germanium is also used in alloys and fluorescent lamps and has military applications in night-vision devices and satellite imagery sensors.
- ✓ The most recent USGS data shows China accounts for 67 percent of raw germanium production
- ✓ Six germanium products were banned by China starting on Aug. 1, 2023, causing an escalating war between Beijing and Washington over access to materials used in making high-tech microchips.

**Sources:** Reuters: China Export Choke off Shipments Gallium & Germanum  
CSIS: Innovation Lightbulb Critical Minerals and US & China Chip War

**Global Germanium Market**  
Market forecast to grow at a CAGR of 3.4%



**Sources:** Research and Markets

# Gallium and Germanium Market Dominated by Chinese

*China has started restricting exports of gallium, which is key to the semiconductor industry, as the chip war with the US and Canada heats up*

- ✓ Under new controls, exporting gallium and germanium from the world's second-largest economy now requires special licenses.
- ✓ These materials, crucial for chip production and with military applications, fall under the scope of the new regulations.
- ✓ China dominates the global gallium and germanium supply chain, producing 98% and 67%, respectively, as reported by the United States Geological Survey (USGS).
- ✓ China has imposed restrictions on U.S. firms associated with the American military, including aerospace company Lockheed Martin.
- ✓ While the U.S. possesses reserves of germanium, it lacks a stockpile of gallium.
- ✓ The U.S. has announced the enforcement of licenses for companies exporting chips to China using U.S. tools or software, regardless of their global production location.

**“ Quite simply, if you won't give us chips, we won't give you the materials to make those chips ”**

*- Colin Hamilton, BMO Investment*

## Sources

BBC News, August 2023: Gallium and germanium: What China's new move in microchip war means for world

Innovation Lightbulb: Critical Minerals and the U.S.-China Chip War





# USA and Canada Partnership

## *Export Restrictions*

Trade cooperation between Canada and the US is increasingly vital, as China's restrictions on gallium and germanium exports highlight the need for North American allies to collaborate on securing critical mineral supply chains and reducing reliance on global competitors.

## *Energy Resource Governance Initiative (ERGI)*

Canada and the U.S. signed an MOU confirming Canada's participation in ERGI, a multi-pronged strategy to reduce reliance on China's critical energy minerals monopoly.

## *Resilient Supply Chains*

Collaborative efforts between the U.S. and Canada aim to establish a strong, environmentally responsible, and resilient North American critical minerals supply chain.

## *Investments and Funding*

The U.S. has announced USD \$39 billion in funding through direct grants, loans, and loan guarantees under the CHIPS Act.

## *CHIPS and Science Act Impact*

The U.S. and Canada will facilitate investment to bolster secure semiconductor supply chains, creating jobs and advancing a cross-border packaging corridor.

## *Support for Canadian Companies*

Canadian companies in critical minerals for electric vehicles and storage batteries are eligible for USD \$250 million Defense Production Act Title III funding.

### **Sources**

Mining, July 2023: Pentagon seeks supply of chip mineral gallium after China curbs exports

White House, March 2023: Joint Statement by President Biden and Prime Minister Trudeau

# Chipmaking Metals

## Critical Elements for Chipmaking Production

**Gallium:** Gallium's most prominent use in technology is in the form of Gallium Arsenide (GaAs), a compound semiconductor. GaAs are highly valued in the electronics industry for its superior electron mobility compared to silicon, making it ideal for high-frequency, high-efficiency applications like mobile phones, satellite communications, microwave point-to-point links, and some radar systems. Additionally, gallium is also used in the production of Gallium Nitride (GaN), another semiconductor with applications in LEDs, laser diodes, and high-power transistors. The unique properties of gallium-based semiconductors, such as their ability to operate at higher temperatures and their efficiency in converting electricity into light, make them critical in the advancement of various electronic and optical devices.

**Germanium:** Germanium is combined with silicon to create silicon-germanium (SiGe) semiconductors. Faster electron mobility and lower power consumption in SiGe chips means they can efficiently work at higher temperatures as compared to pure silicon semiconductors. Germanium-based chips are particularly useful in radio-frequency (RF) applications, such as wireless communication and radar, due to their superior frequency response. These semiconductors are a vital material for progressive innovation in the automotive, telecommunication, and solar industries.

## Critical Uses

### Companies directly affected by chipmaking metals and Supply Chain.

- ✓ Nvidia, Taiwan semi-conductor, and Intel are some of the largest semiconductor manufacturers and heavily rely on gallium to keep up with the massive demand, especially due to AI
- ✓ Apple, Microchips and semiconductors
- ✓ Tesla, microchips in cars
- ✓ Open AI, heavily uses semiconductors to power its technologies



# KAP Property



# Project Overview

- ✓ The KAP Property is 100% owned by Integral Metals Corp., located in the Mackenzie Mountains, Northwest Territories, covering 7,500 hectares.
- ✓ Primarily supported by logistical infrastructure in Norman Wells.
- ✓ Features Mississippi Valley Type (MVT) carbonate-hosted zinc-lead mineralization.
- ✓ The Project contains significant concentrations of gallium and germanium.
- ✓ Mineralization is predominantly hosted within the Landry Formation, particularly in the Recrystallized Zone.
- ✓ Recent exploration confirmed the presence of gallium and germanium, validating historical data.

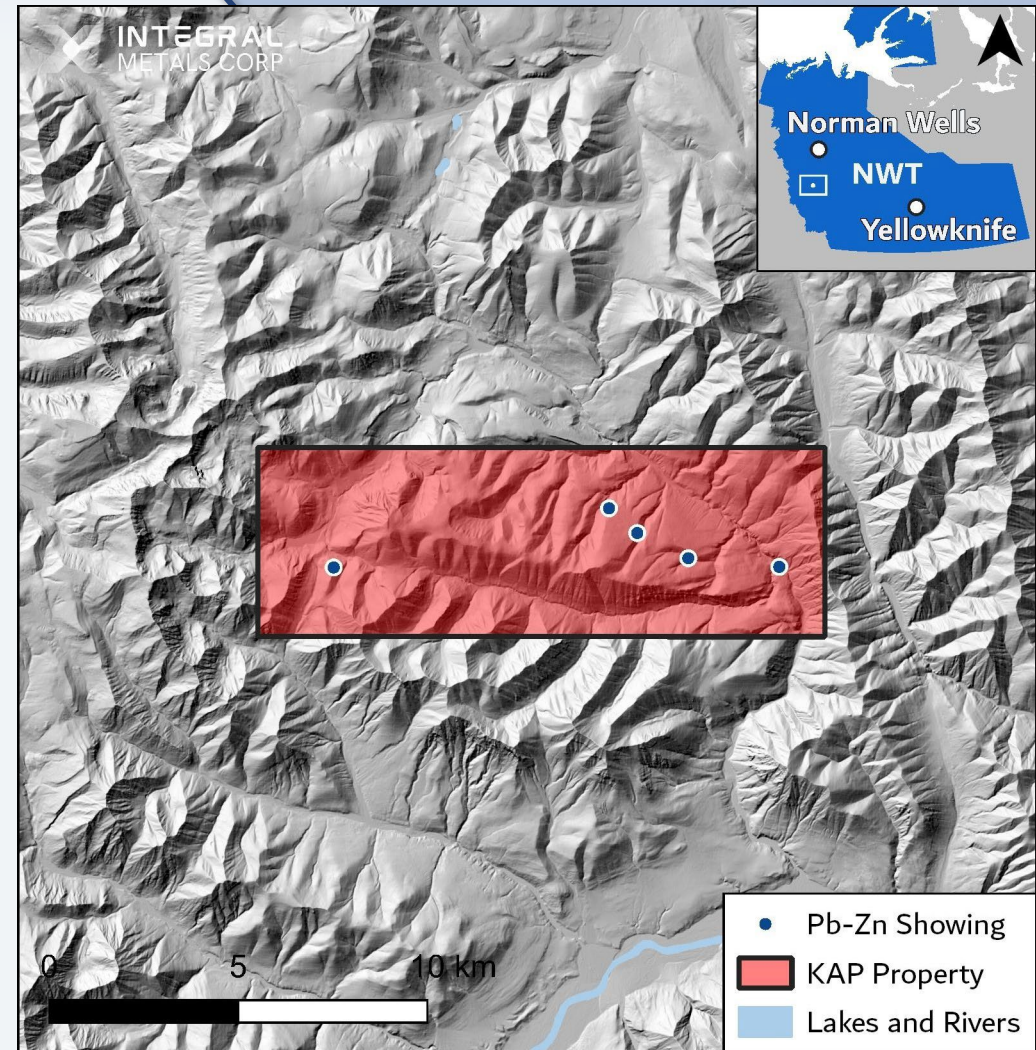


Figure 1: KAP Project Overview

# Project Location

- ✓ The KAP Property is located in the Mackenzie Mountains, approximately 160 kilometers west of Wrigley and 220 kilometers south of Norman Wells.
- ✓ The Property feature six 1,250 hectare claims on NTS map sheets 95M06 and 95M07, that were staked on February 8, 2024, and are 100% owned by Integral Metals Corp.
- ✓ Accessible primarily by helicopter on-site, and float-plane to the nearby Dal Lake. Potential for future winter road access along the Redstone River valley.
- ✓ The region's infrastructure includes logistical support from Norman Wells, Tulita, and Wrigley.



Figure 2: KAP Project Location

# Project Geology



- ✓ The KAP Property is situated in the Mackenzie Fold Belt, part of the Cordilleran Orogenic Zone.
- ✓ The geological framework includes Paleozoic supracrustal sediments and significant carbonate-hosted mineralization.
- ✓ The Arnica and Landry Formations dominate the local geology, with the Recrystallized Zone hosting the primary mineralization.
- ✓ Extensive granular dolomitization and euhedral quartz needle silicification are key features of the Recrystallized Zone.
- ✓ The geological setting is characterized by broad, gentle anticlines and synclines with low-angle thrust faults and normal block faulting.

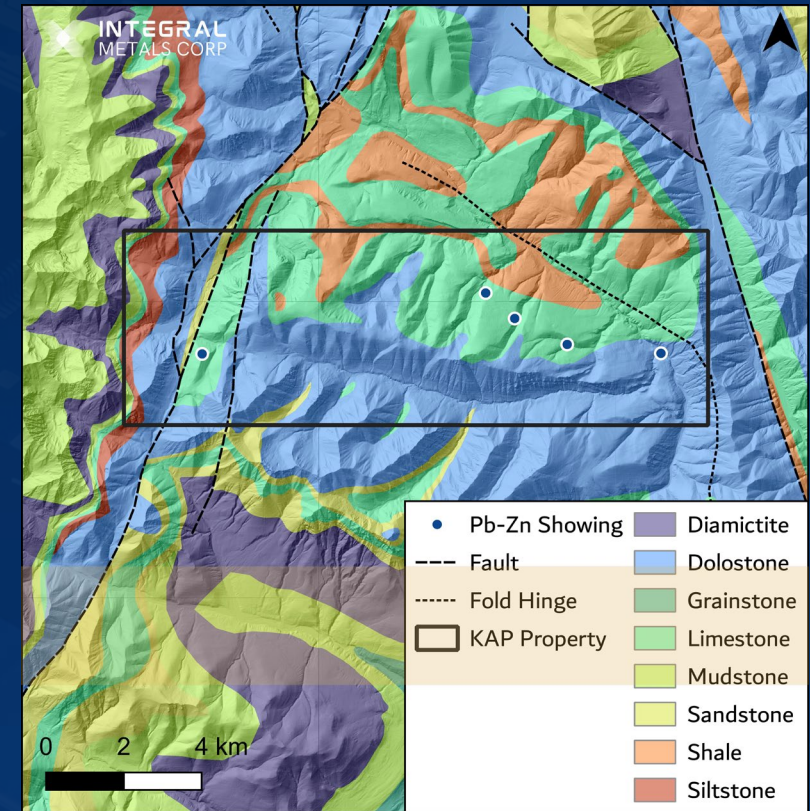
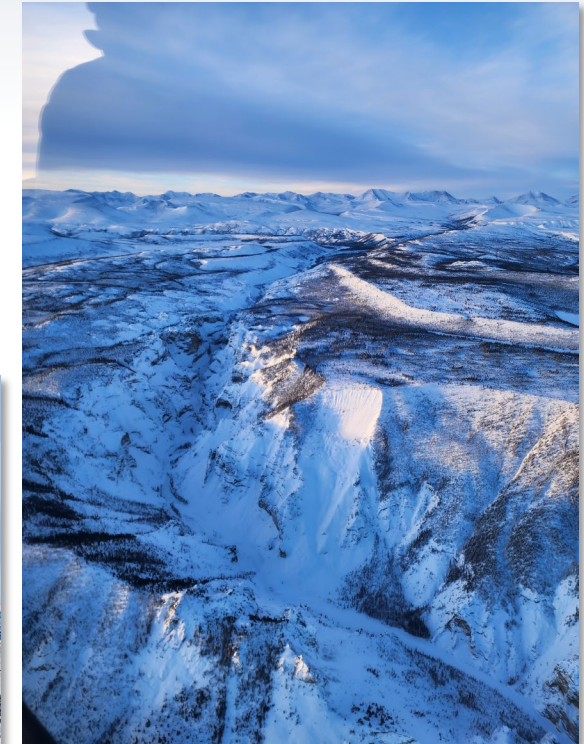
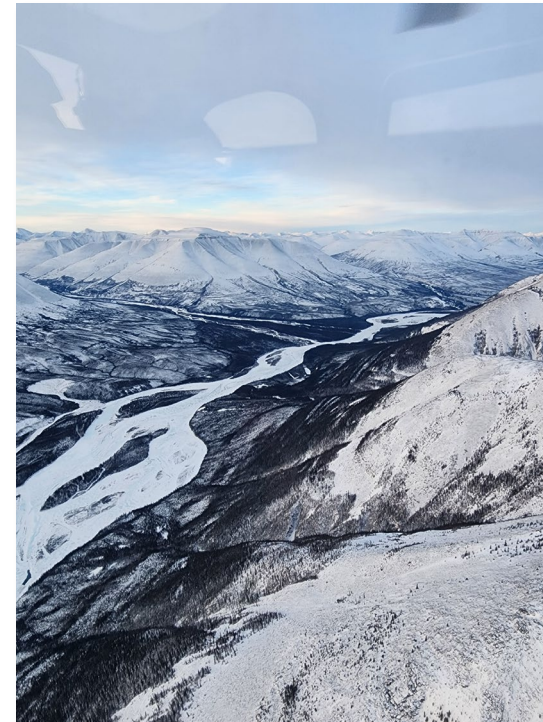


Figure 3: KAP Project Geology

# Mineralization

- ✓ Mineralization is predominantly hosted within the Recrystallized Zone of the Landry Formation.
- ✓ Gallium (Ga) and germanium (Ge) were found to occur in notable concentrations with the zinc-bearing sphalerite.
- ✓ Known mineral showings include disseminated and massive sphalerite and galena over a 12 km x 3 km area..
- ✓ The mineralization is stratabound, associated with collapse breccias and secondary porosity in the carbonate host rocks.
- ✓ High potential for additional blind mineralization exists beneath plateau areas, indicated by known mineral showings.



**Figure 4:** KAP Project

\*Averaged across 9 samples taken by Equinox Resources (1986)

# Historical Work



*Historical work identified multiple mineral showings and significant mineralization trends*

*1975: 1975: Cominco Ltd. performed a regional exploration program*

- ✓ Geological mapping, sampling, trenching, and drilling.

*1996: Firesteel Resources Inc. performed geophysical surveying*

- ✓ Extended the gravity survey coverage to the northwest and southeast
- ✓ Thirteen drill holes re-tested some of the 1976 holes; tested two of the gravity anomalies; and stepped out from the Main Showing

*2024: The 2024 exploration program by Integral involved digitizing and modeling historical data, confirming historical mineralization.*

- ✓ Select historical drill holes and gravity surveys were re-analyzed, providing valuable insights for future exploration.
- ✓ Historical drilling confirmed consistent mineralization in the Main showing area, with substantial potential for high-grade zinc within a collapse breccia unit.





# Future Work

## Upcoming work on the KAP Property

*Phase I: Conduct a comprehensive soil geochemical survey on the Property to delineate anomalous zones and identify potential targets for drilling.*

- ✓ Focus on areas with historical soil geochemical anomalies and potential extensions of known mineralized zones.

*Phase II: Contingent on successful results from Phase 1, implement a targeted diamond drilling program with the intention of extending known mineralized zones.*

- ✓ Re-log and re-assay all historical drill holes to update and validate historical data according to modern standards.
- ✓ Drill priority targets identified from gravity surveys and soil geochemical surveys, with particular consideration for the "Grav\_Main\_3" anomaly.

Continued community consultation to support exploration activities.



**Figure 5:** KAP Project

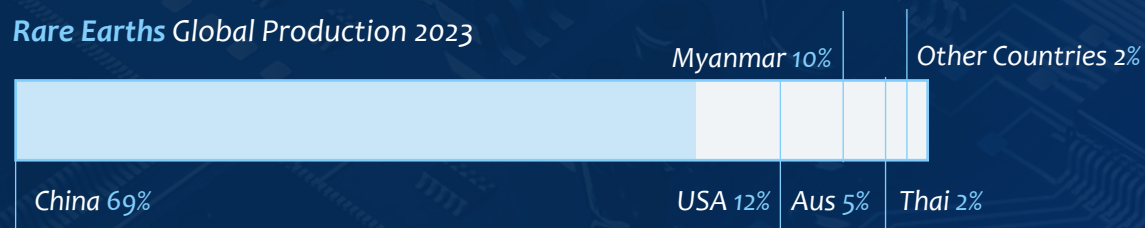


# The Importance Of Rare Earths Across Industries

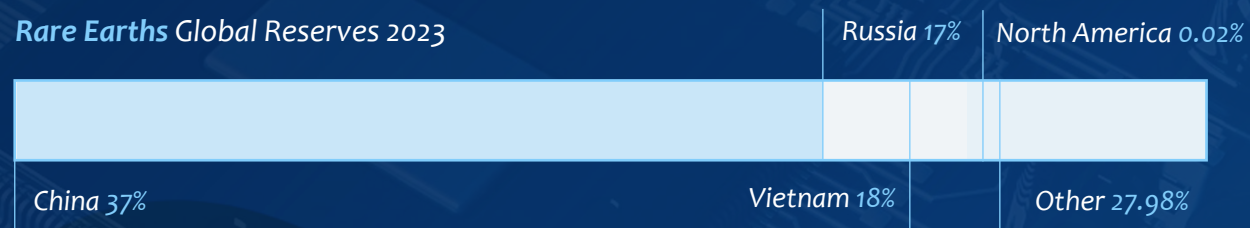
## Rare Earth Elements Applications

Agriculture	Automotive	Aerospace/Defence	Chemicals/Catalysts	Healthcare	Electronics	Power Generation
<ul style="list-style-type: none"> <li>✓ Fertilizers</li> <li>✓ Farm equipment motors</li> </ul>	<ul style="list-style-type: none"> <li>✓ Vehicle motors</li> <li>✓ Catalytic converters</li> </ul>	<ul style="list-style-type: none"> <li>✓ Plane motors</li> <li>✓ Submarines</li> <li>✓ Guidance Equipment</li> </ul>	<ul style="list-style-type: none"> <li>✓ Air Pollution Control</li> </ul>	<ul style="list-style-type: none"> <li>✓ MRI scanners</li> <li>✓ CT scanners</li> </ul>	<ul style="list-style-type: none"> <li>✓ Computer screens</li> <li>✓ Smartphones</li> <li>✓ Semiconductors</li> </ul>	<ul style="list-style-type: none"> <li>✓ Wind turbines</li> <li>✓ EVs</li> </ul>

Rare Earths Global Production 2023



Rare Earths Global Reserves 2023



### Sources

Statista, January 2024, Distribution of rare earths production worldwide as of 2023, by country

Statista, April 2024, Reserves of rare earths worldwide as of 2023, by country

# China Holds a Dominant Position in the REE Market

*China announced a ban of rare earth extraction and separation technologies on December 21, 2023.*

- ✓ China accounted for 69% of world mine production of rare earth metals followed by the United States, Myanmar, and Australia.
- ✓ These materials, crucial for chip production, agriculture, automotive, aerospace, healthcare, power generation and with military applications.
- ✓ China processes and refines nearly 90 percent of the world's rare earths, which means that it is importing rare earths from other countries and processing them. This has given China a near monopoly.
- ✓ The IEA forecasts global demand will increase by much as seven-fold over the two decades to 2040, underpinned by world's transition from carbon-intensive energy production.
- ✓ The United States' delay in developing processing capacity will hinder its ability to build both national, energy and economic security.
- ✓ It is recommended that Congress should incentivize the production of rare earth element magnets, which are the principal end-use for rare earth metals.

**“ Swift export restrictions highlight the urgent need for U.S. to bolster domestic capabilities and international collaboration in critical minerals. ”**

*- Gracelin Baskaran, Center For Strategic & International Studies*

## Sources

CSIS, January 2024: What China's Ban on Rare Earths Processing Technology Exports Means

Financial Times: China bans export of rare earth processing technologies

# Rare Earth Metals Market

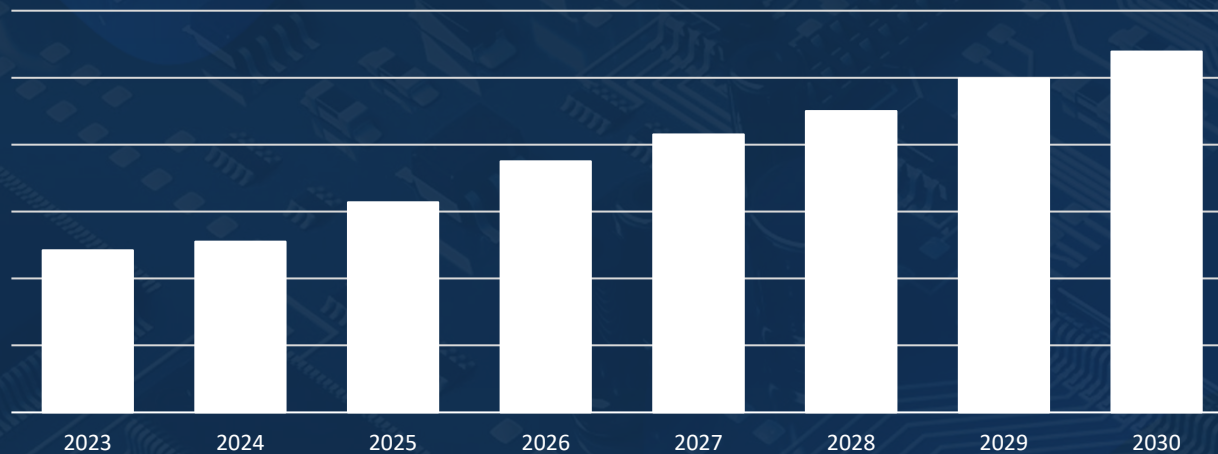


## Rare Earth Market Analysis

By Verified Market Research, Mar 2024



## Global Rare Earths Metals Market



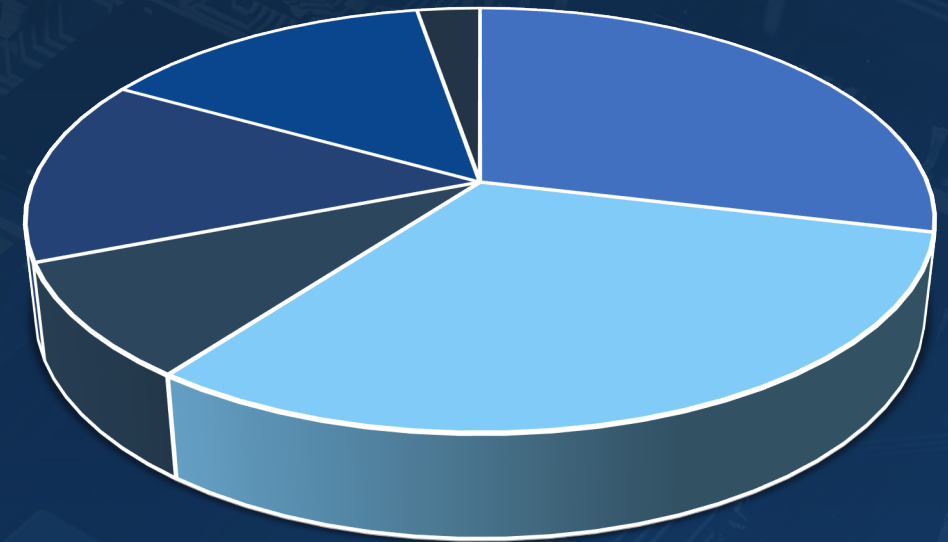
2023: \$4.84 Billion

### Sources

Government of Canada, Rare earth elements facts

Verified Market Research, Rare Earth Metals Market Size and Forecast

## Rare Earth Metals Market Share By Application



- Metal Alloys
- Permanent Magnets
- Polishing Compounds
- Electronics
- Consumer
- Other Uses



# Burntwood Project



# Project Overview

- ✓ Mineralization is hosted in an intrusive alkaline syenite complex containing numerous recently discovered carbonatites bearing apatite, titanite, and allanite enriched in rare earth elements (REEs).
- ✓ The property comprises an Exploration License that covers 15,000 hectares.
- ✓ Integral Metals Corp. owns 100% interest in the Burntwood project area.
- ✓ Accessible from the town of Flin Flon via plane or helicopter. The town provides all essential services.
- ✓ Located near Burntwood Lake, the property is located in the central Kiseynew domain, a metasedimentary basin in the internal zone of the Trans-Hudson orogen. The area is largely underlain by turbiditic metagreywacke of the Burntwood group, and has undergone multiple generations of folding and faulting.

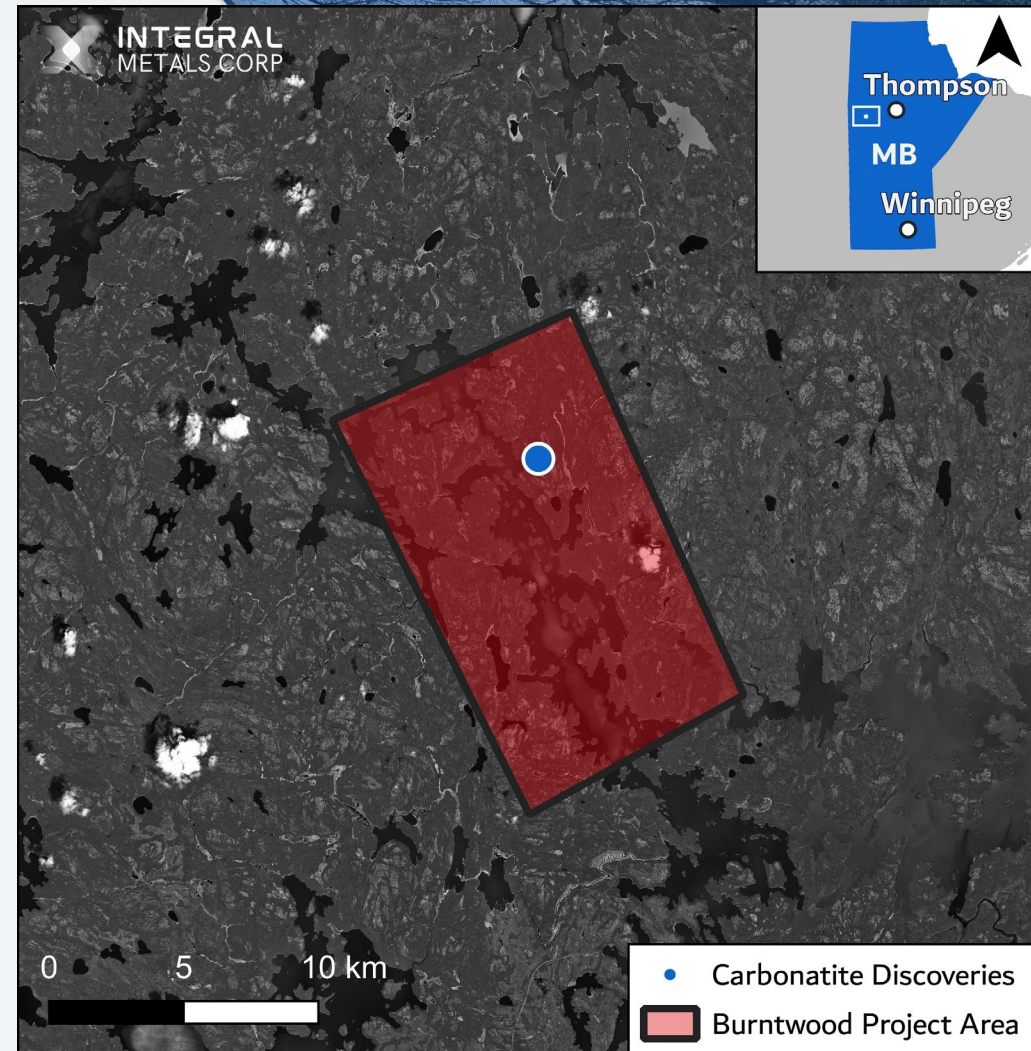


Figure 6: Burntwood Project Overview

# Project Location

- ✓ The property is situated approximately 115 kilometers west of Flin Flon, MB, and just 70 kilometers northwest of Snow Lake, MB.
- ✓ The location has historical logging road access, and an active railway 30 kilometers west of the project.
- ✓ Fieldwork and drilling can be performed year-round.
- ✓ Situated on Public Land, outside of protected areas, wildlife management areas, and areas of special management.
- ✓ Positioned in Manitoba's active mining district amongst the producing Lalor and Thompson mines.

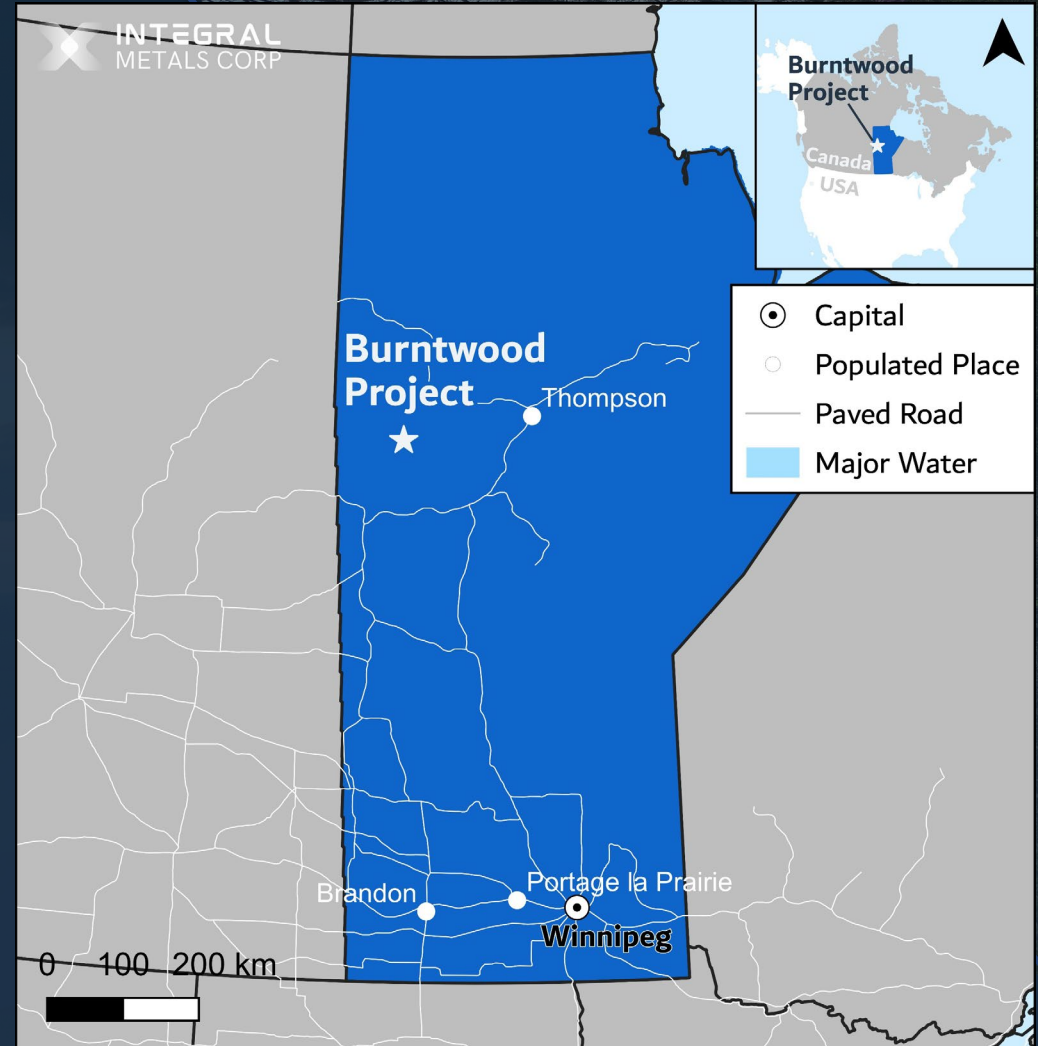


Figure 7: Burntwood Project Location

# Project Geology



**Location:** Central Kiseynew domain, internal zone of the Trans-Hudson Orogen

*Syenite complexes within the Trans-Hudson orogen are the subject of exploration for Rare Earth Elements.*

**Geochemistry:** Carbonatite isotopic analyses show depleted  $\delta^{13}\text{C}$  calcite values

*Indicates a mantle-derived carbon sources, associated with enrichment in a variety of economically valuable elements, especially rare-earth elements (REEs), niobium, and phosphates.*

**Host Rocks:** Alkaline igneous syenite complex

*The complex is one of a series of alkaline igneous complexes in the Trans-Hudson orogen, two of which are known to host carbonatite intrusions.*

**Geological Structures:** Carbonatite veins, pods, and dikes discovered in the northern part of the alkaline complex

*The syenite complex provides a magmatic source that can contribute to the REE mineralization, while the secondary hydrothermal processes (carbonatites) can further enrich these concentrations.*

**Mineralized Distribution:** Carbonatites within a syenite intrusion

*Carbonatites are typically enriched in light rare earth elements (LREEs), while syenites may be enriched in heavy rare earth elements (HREEs).*

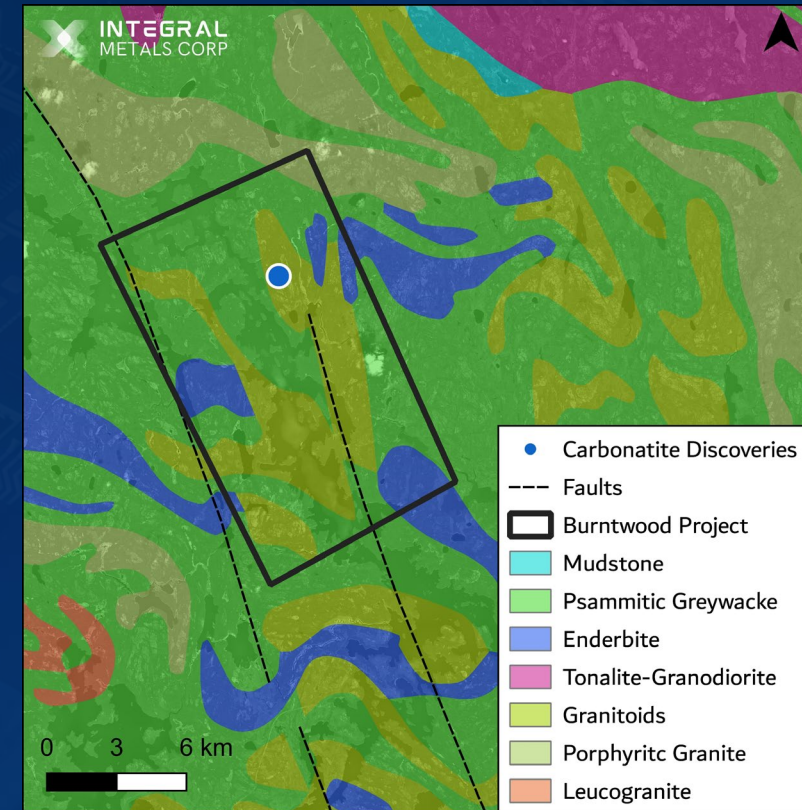


Figure 8: Burntwood Project Geology



# Mineralization



- ✓ Recent forest fires have improved exposure and access to previously covered outcrops, revealing new mineralized carbonatite zones.
- ✓ Early work suggests the principal REE-bearing minerals are apatite, titanite, and allanite.
- ✓ Potential for meaningful REE mineralization, exemplified by samples with elevated levels of strontium (up to 12,200 ppm), barium (up to 3,150 ppm), and REEs (up to 4,580 ppm).
- ✓ Rock textures include granoblastic structures which have predictable and uniform breakage that is favorable for mineral processing.
- ✓ The new discovery of carbonatites at Burntwood suggests a broader geological province with additional REE exploration potential.

\*Averaged across 9 samples taken by Equinox Resources (1986)



Figure 9: Burntwood Project

# Historical Work



## *1972: Manitoba Geological Survey performed geochemical surveying*

- ✓ Two samples of aegirine-augite-bearing syenite were collected near the western end of Burntwood Lake

## *1987: Manitoba Geological Survey performed mapping*

- ✓ Confirmed the existence of a 1.4 km by 2.4 km phacolithic syenite intrusion lying within regionally dominant turbidite-derived migmatites and associated S-type peraluminous granites.

## *1993: Enterprise Exploration Ltd. performed geophysical, geochemical, and mineralogical surveying*

- ✓ An airborne magnetic survey was then followed up with ground-based till sampling targeted at diamond exploration.

## *2011: Manitoba Geological Survey performed mapping and geological investigation*

- ✓ A significant field study assessed the potential for rare earth element (REE) mineralization, noting the syenite's mineralogical, textural, and geochemical similarities to other known carbonatite-hosting syenite complexes, like the Eden Lake complex, which is recognized for its REE potential.

## *2022: Forest Fire*

- ✓ A forest fire in 2022 significantly improved geological exposure in the region by removing substantial vegetative growth.

## *2023: Manitoba Geological Survey performed mapping and geochemical surveying*

- ✓ Improved exposure post-forest fire led to a renewed exploration, which identified several new carbonatite occurrences within the Burntwood Lake complex.



# Further Exploration Opportunities

## *Potential Avenues for Future Work*

### *Magnetic and Imagery Surveys*

- ✓ 3D inversion model of subsurface magnetic structures to gain insights into the geological structures that are hosting mineralization
- ✓ High-resolution imagery to detect and map exposed zones of mineralization across the property

### *Channel Sampling and Geologic Mapping*

- ✓ Systematic channel sampling across currently exposed extents of carbonatite for further geochemical analysis, metallurgy and sorting characteristic analysis.
- ✓ Mapping and prospecting new carbonatite zones within the syenite complex and in the northwestern Burntwood Lake area.

### *Development of Exploration Model*

- ✓ Combining the geophysical, geochemical, biogeochemical, and geomicrobial datasets to identify overlapping anomalous areas for follow-up exploration and drill testing.



# Woods Creek Project

# Project Overview

- ✓ Mineralization is hosted in an intrusive alkaline syenite complex containing numerous recently discovered carbonatites bearing apatite, titanite, and allanite enriched in rare earth elements (REEs).
- ✓ Accessible from the town of Darby via road access. The town provides all essential services.
- ✓ Located in similar Mesoproterozoic geological units as the nearby Sheep Creek REE + Gallium project by U.S. Critical Materials. Evidence of hydrothermal activity, geological structure, and mineralization distribution support the emplacement of rare metal-bearing carbonatite units.

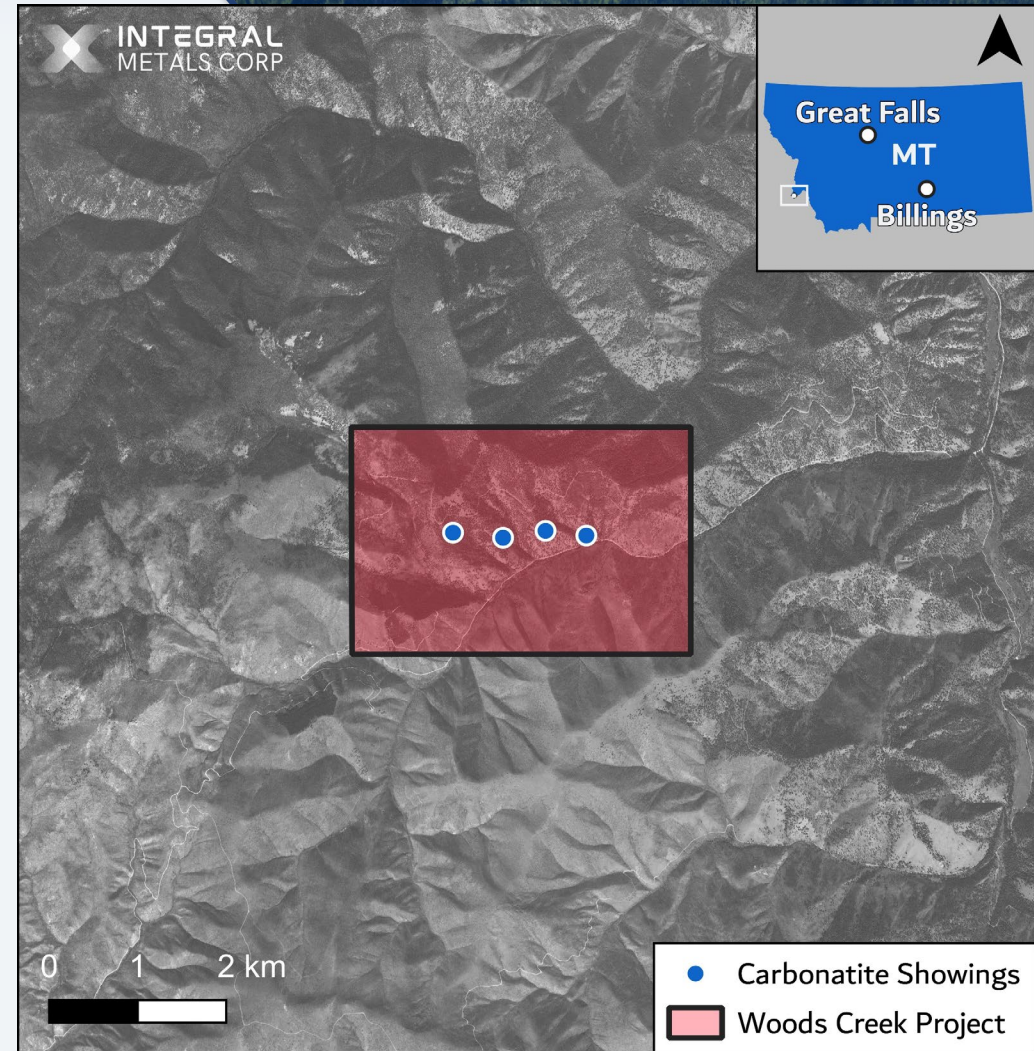


Figure 9: Woods Creek Project Overview

# Project Location

- ✓ The project is situated approximately 70 kilometers south of Darby, MT. The location has road access via the Woods Creek Road.
- ✓ Fieldwork can be performed from May to September, and drilling can be performed year round.
- ✓ Situated on Public Land, outside of protected areas, wildlife management areas, and areas of special management.
- ✓ Positioned next to the Sheep Creek Rare Earth Element and Gallium Project.



Figure 10: Woods Creek Project Location

# Project Geology



**Location:** A north-northwest trending belt that extends from North Fork to Deer Creek

*Regional geology includes alkalic complexes (syenites and peridotites), which are often associated with carbonatite occurrences, as they share similar magmatic sources enriched in incompatible elements.*

**Hydrothermal Activity:** Evidence of extensive hydrothermal alteration in the area points to fluid movement along structural weaknesses

*Hydrothermal fluids can facilitate the emplacement of carbonatite by creating more space within the crust and modifying the local stress field.*

**Host Rocks:** Mesoproterozoic metamorphic rocks including amphibolite and quartzite

*Metamorphic rocks often have the competency to create sustained fracture systems that can act as conduits for migrating magmas.*

**Geological Structures:** The area is characterized by a tectonic setting that involves significant faulting and fracturing

*The presence of major north-south faults, such as the one following the West Fork of the Bitterroot River, suggests deep crustal lineaments that can serve as pathways for ascending carbonatite melts from the mantle.*

**Mineralized Distribution:** The area shows enrichment in elements like niobium, rare earth elements, and barium

*This chemical signature supports the idea that the magmatic fluids or melts that contributed to the mineralization had a composition similar to carbonatites.*

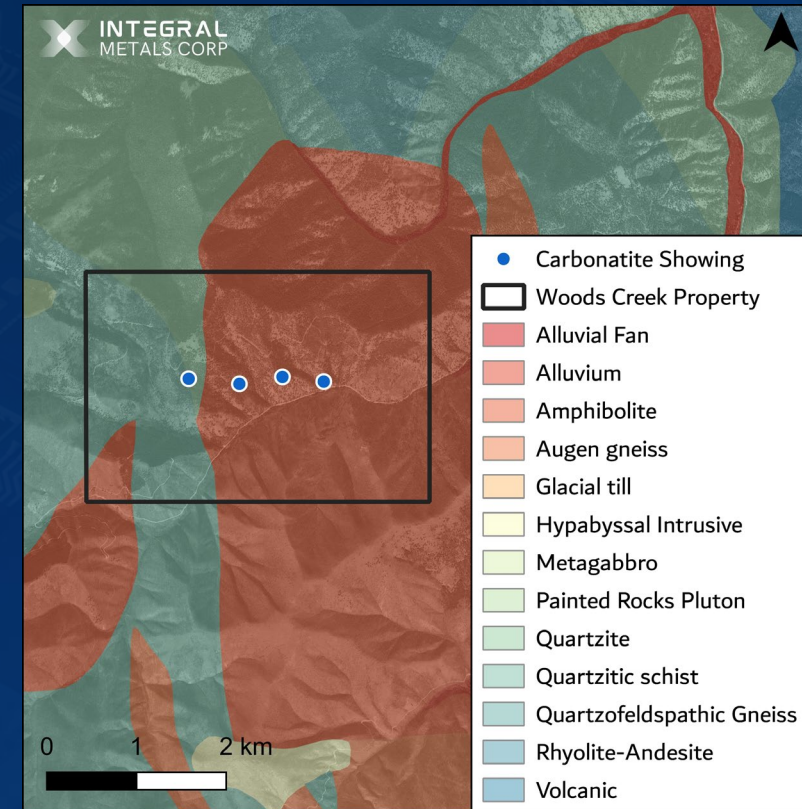


Figure 11: Woods Creek Project Geology

# Mineralization



- ✓ There are several reported showings in the Woods Creek area, including Rocky Point #1 to #5, with mineralized outcrops up to 3 meters thick.
- ✓ The REE-bearing mineral Monazite is reported throughout the showings, ranging from microscopic to coarse (8 mm) anhedral grains.
- ✓ Averaged between three samples of Monazite was reported 72% Total Rare Earth Oxide (TREO) with a 13% ratio of neodymium and praseodymium (NdPr:TREO).
- ✓ A grab sample of carbonatite collected in 2024 returned a total rare earth oxide (TREO) value of at least 70,831 ppm (7.08%), with a 14% ratio of neodymium and praseodymium (NdPr:TREO).
- ✓ Radioactivity is low and mostly attributed to negligible amounts of thorium.



# Historical Work



*1954: Mr. Erickson performed surface mapping*

- ✓ Discovered columbite (a niobium ore mineral) in the area

*1955: Mr. Van Matre performed geochemical surveying*

- ✓ Further substantiated the initial discovery

*1956-1957: Continental Rare Metals Corp. performed underground and surface mapping and bulk sampling*

- ✓ One small test lot of ore was shipped for testing

*1961: Mr. Heinrich performed mapping, geological testing, and geochemical surveying*

- ✓ Identified several outcrops and evaluated mineralization potential

*2023: U.S. Critical Materials performed geochemical surveying on nearby Sheep Creek*

- ✓ Confirmed the presence of high-grade gallium in carbonatite ore minerals



# Future Work

## *Upcoming work on the Woods Creek Project*

### *Magnetic and Imagery Surveys*

- ✓ 3D inversion model of subsurface magnetic structures to gain insights into the geological structures that are hosting mineralization
- ✓ High-resolution imagery to detect and map exposed zones of mineralization across the property

### *Channel Sampling and Geologic Mapping*

- ✓ Systematic channel sampling across currently exposed extents of carbonatite for further geochemical analysis, metallurgy and sorting characteristic analysis.
- ✓ Mapping and prospecting new carbonatite zones within the project area

### *Development of Exploration Model*

- ✓ Combining the geophysical and geochemical datasets to identify overlapping anomalous areas for follow-up exploration and drill testing.

# Integral Metals Team Members



## **PAUL SPARKES**

### **Chief Executive Officer / Director**

Mr. Sparkes is an accomplished business leader and entrepreneur with over twenty-five years of experience in media, finance, capital markets and Canada's political arena. Mr. Sparkes spent a decade as a leader in the broadcast and media industry as CTV Globemedia's Executive Vice President, Corporate Affairs. He also held senior positions in public service, including with the Government of Canada as Director of Operations to Prime Minister, Jean Chretien, and as a senior aide to two Premiers of Newfoundland and Labrador. Mr. Sparkes was a Co-Founder and executive vice chairman at Difference Capital Financial and serves on a number of private and public boards. He is currently President of Otterbury Holdings Inc. and is an advisor and deal maker for growth companies in the private and public markets.

## **DR. JARED SUCHAN, PH.D., P. GEO.**

### **VP of Exploration**

Dr. Suchan is a professional geoscientist with nearly 10 years of experience in the exploration and development of mining projects in Canada. He received his Ph.D. in Environmental Systems Engineering in 2023 and his Honours B.Sc. in Geography and B.Sc. in Geology in 2016 from the University of Regina. His expertise is in the development and execution of early-stage mineral exploration programs in the remote regions of Canada. His previous experience includes coal mining operations and uranium exploration in Saskatchewan, rare earth element and diamond exploration in the Northwest Territories, and gold exploration in the Yukon. Dr. Suchan currently serves as the Chief Operating Officer for the rare earth element exploration company Northern Critical Minerals Corp., and as a Managing Partner with the mineral exploration project generator company Voyageur Exploration Ltd.

## **TASHEEL JEERH**

### **Chief Financial Officer**

Mr. Jeerh, CPA, CA is a finance and accounting professional bringing over 10 years of accounting expertise and management experience to the team. Mr. Jeerh has experience in both public and private sectors, over a broad range of industries, including energy, mining, exploration and technology. Prior to joining the Company, Mr. Jeerh played a pivotal role in the growth of a private upstream oil and gas company, dealing with over \$2.0 billion of M&A activity and \$1.0 billion of financing activities. Mr. Jeerh received his designation at PricewaterhouseCoopers LLP, where he gained valuable audit experience through his work as a manager in the assurance practice.

# Integral Metals Board of Directors and Advisors



## **UNGAD CHADDA**

### **Director**

Mr. Chadda is an experienced capital markets regulator and financial services executive having previously worked at TMX Group, the parent company of the Toronto Stock Exchange. Mr. Chadda was responsible for building and maintaining the TMX Group investor base as well as supporting its public interest mandate and strategies to grow as a company. Mr. Chadda joined TMX Group through one of its predecessor entities in 1997. During his tenure, Mr. Chadda held progressively senior roles, including Director of Listings, TSX Venture Exchange; Chief Operating Officer, TSX Venture Exchange; Vice President, Business Development, Toronto Stock Exchange and TSX Venture Exchange; President, Toronto Stock Exchange; CFO of TSX Trust (formerly Equity Transfer and Trust) an OSFI regulated entity; and SVP, Head of Enterprise Corporate Strategy and External Affairs, TMX Group. Ungad currently advises clients on capital markets, regulatory and governance strategies. Mr. Chadda attended McMaster University, where he received an Honours Bachelor of Commerce in 1994 and he received his Chartered Accountancy designation while working with Ernst and Young LLP in 1996. Mr. Chadda has served on multiple boards and has completed the University of Toronto's Rotman Business School Director Education Program.

## **KEVIN FRAM**

### **Advisor**

Mr. Fram brings over 35 years experience in the federal government, principally as a former Public Servant at Fisheries and Oceans Canada, where he held a leadership role in the Indigenous Affairs Directorate. During his time with DFO, Mr. Fram, in partnership with Indigenous groups from across the country, championed the co-development and co-delivery of DFO's Indigenous capacity-building programs. Upon his retirement from the Public Service, Mr. Fram was awarded the David C. Bevan award for Outstanding Career at Fisheries and Oceans Canada. Mr. Fram previously served as Executive Assistant to the Governor General of Canada, Special Assistant to the Prime Minister of Canada, as well as a senior political advisor to several Ministers of Fisheries and Oceans, the Minister of Natural Resources, as well as to the Leader of the Government in the House of Commons.

## **NICHOLAS THADANEY**

### **Advisor**

Mr. Thadaney is a finance, technology and capital markets senior executive with over 25 years experience. He founded Partners Capital Corp. and previously served as Head of the Toronto Stock Exchange in the role of President & CEO, Global Equity Capital Markets, TMX Group and prior to that as CEO of ITG Canada Corp (now Virtu Financial). Before his tenure at ITG, Mr. Thadaney was Vice-President, Business Development (Equities) at C.T. Securities Inc.(Canada Trust), which was later acquired by T.D. Securities Inc. (TD Bank) in 1999. Mr. Thadaney also currently serves as a senior advisor to a number of firms and a director on several boards. Mr. Thadaney has also been a board and committee member of a number of prominent businesses, industry associations, and registered charities, including: Bermuda Stock Exchange; CanDeal; Investment Industry Regulatory Organization of Canada (IIROC); Investment Industry Association of Canada; JA (Junior Achievement) Canada; Mount Sinai Hospital Asset Management Industry Hold'em for Life Charity (Co-Chair); Toronto Financial Services Alliance (now Toronto Finance International); Young Presidents Organization (Ontario Chapter); and the World Federation of Exchanges SME Advisory Board.

## **RAJ H. CHAHAL**

### **Advisor**

Mr. Chahal is an entrepreneur and lawyer with interests in real estate, energy and education. Mr. Chahal has an LLB (Hons) from the London School of Economics and a B.A. in Political Science & Geography from the University of Calgary. Mr. Chahal served as a Western & Northern Desk from 1994–1998 to the Prime Minister of Canada and then from 2001-2003 he served as a Policy Advisor to the Prime Minister of Canada. Currently, he is the Managing Director of Chahal Investment Corp., a Real Estate Development Firm based in Calgary.



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