



Strategic Staking of Silver Claims in Nevada, USA

Future Minerals Forum, Saudi Arabia – January 2025

Important Notice & Disclaimer



This document is confidential and may not be reproduced, redistributed or passed on, directly or indirectly.

This document has been prepared by Bayan Mining and Minerals Limited (the **Company**, **BMM**, or **Bayan Mining**). This document is neither a prospectus nor an offer to subscribe for Shares or Securities. The information contained in this document is a professional opinion only and is given in good faith. The material in this document (material) is not and does not constitute an offer, invitation or recommendation to subscribe for or purchase any security in BMM, nor does it form the basis of any contract or commitment.

BMM makes no representation or warranty, express or implied, as to the accuracy, reliability or completeness of this material. BMM, and its directors, employees, agents and consultants make no representations or warranty, express or implied, as to the accuracy, reliability or completeness of this material, and have no liability, including liability to any person by reason of negligence or negligent misstatement, for any statements, opinions, information or matters, express or implied, arising out of, contained in or derived from, or for any omissions from, this material, except liability under statute that cannot be excluded. Recipients should conduct their own investigations and perform their own analysis in order to satisfy themselves as to the accuracy and completeness of the information, statements and opinions contained in this presentation.

The Company confirms that it is not currently aware of any environmental restrictions or requirements that would impede the continuation of planned exploration and evaluation activities.

Statements contained in this material, particularly those regarding possible or assumed future performance, costs, dividends, production levels or rates, prices, resources, reserves or potential growth of BMM, industry growth or other trend projections are, or may be, forward looking statements. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties, many of which are outside the control of, and may be unknown to, BMM.

Actual results and developments may differ materially from those expressed or implied by these forward looking statements depending on a variety of factors. Recipients of this document are cautioned to not place undue reliance on such forward looking statements. BMM does not take responsibility to release publicly any revisions or updates to any forward looking statements to reflect events, circumstances or unanticipated events occurring after the date of this document except as required by law or by any appropriate regulatory authority.

This document is a visual aid and is not intended to be read as a stand alone document. The material contains selected and abbreviated summary information about BMM and its subsidiaries and their activities current as at the date of this document. The material is of general background and does not purport to be all inclusive or complete. BMM does not

take responsibility for updating any information or correcting any error or omission which may become apparent after the date of this document. Certain statistical and other information included in this document is sourced from publicly available third party sources and has not been independently verified.

It is a requirement of the ASX Listing Rules that the reporting of exploration results, ore reserves and mineral resources in Australia comply with the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code"). Investors outside Australia should note that while reporting in this document complies with the JORC Code, they may not comply with the relevant guidelines in other countries. Information contained in this document describing mineral deposits may not be comparable to similar information made public by companies subject to the reporting and disclosure requirements of Canadian or US securities laws.

By attending a presentation or briefing, or accepting, accessing or reviewing this document you acknowledge, accept and agree to the matters set out above.

Competent Persons Statement

The information in this presentation that relates to Exploration Targets or Exploration Results is based on information compiled by Mr Dejan Jovanovic, a Competent Person who is a Member of the European Federation of Geologists (EurGeol). The European Federation of Geologists is a Joint Ore Reserves Committee (JORC) Code 'Recognised Professional Organisation' (RPO). An RPO is an accredited organisation to which the Competent Person under JORC Code Reporting Standards must belong to report Exploration Results, Mineral Resources, or Ore Reserves through the ASX. Mr Jovanovic is the General Manager of Exploration and is a part-time contractor of the Company. Mr Jovanovic has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the JORC 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Jovanovic consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements.

The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcements.

Executive Summary

Strategic staking of silver Claims in Nevada, USA



Strategic Silver and Gold Claims Staking

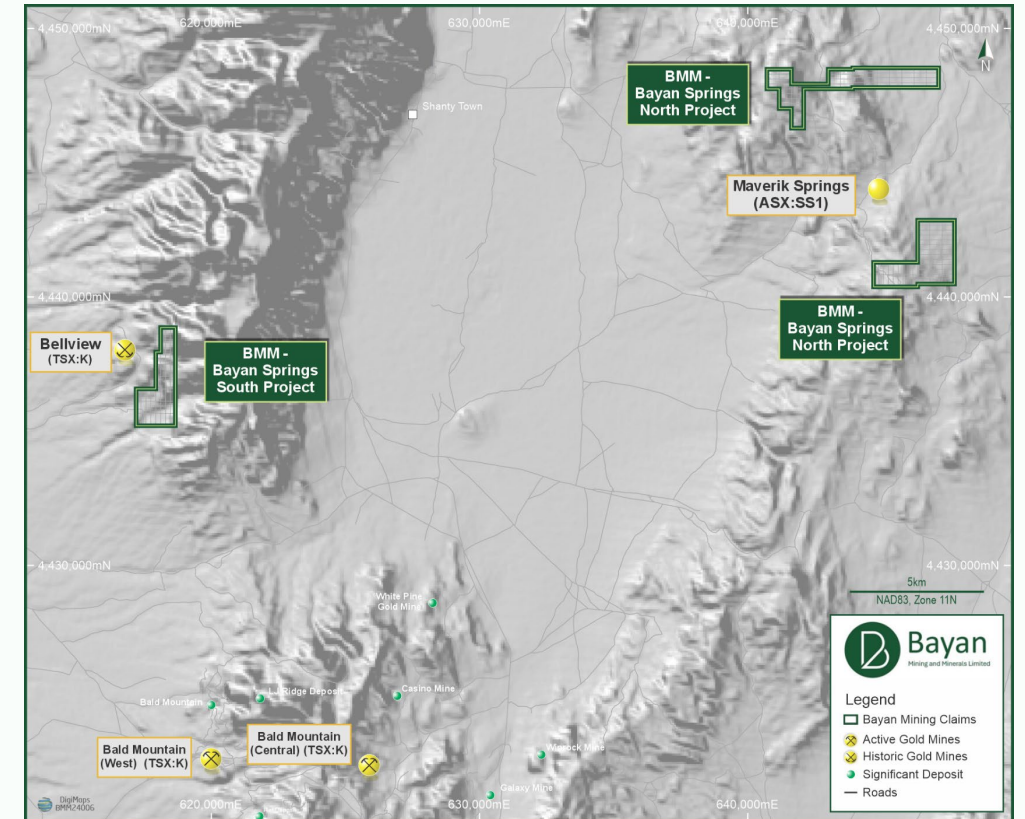
Bayan Mining and Minerals Ltd (BMM) has applied for a new package of land consisting of 158 claims in Nevada, USA which is highly prospective for Silver and Gold consisting of:

Bayan Springs North

116 claims staked near Sun Silver's (ASX:SS1) Maverick Springs Project, with a JORC Inferred Resource of ~195.7 million tonnes at 67.25 g/t silver equivalent, contained 423.2 million ounces Ag Eq.¹

Bayan Springs South

42 claims staked north of active claims near Kinross's (NYSE:KGC) Bald Mountain operation, with a measured and indicated resources of 3.7 million ounces of gold.²



Bayan Springs North and South consisting of recently staked 158 claims and its proximity to Sun Silver and Kinross Gold Corp.

1. Sun Silver Limited (ASX:SS1), ASX Announcement, 28 August 2024.

2. Kinross Gold Corporation (NYSE:KGC) 2023 Annual Mineral Reserve and Resource Statement.

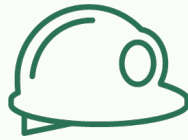
Staking Highlights

Indicators underscore potential for hosting high-value projects across its sites



Silver exposure

Projects staked and acquired against a backdrop of record high silver prices



Nevada mining strength

Nevada is a well-established mining jurisdiction with good infrastructure, favourable permitting, and experienced workforce



Historic mining region

Tenements are part of the prolific Carlin Trend, one of the world's most productive mineral belts known for significant deposits of both gold and silver



Near multiple major projects

Proximity to established explorers Kinross and Sun Silver with inferred and measured resources in Carlin Trend

Highly Experienced Team

Strong Leadership, Technical and Commercial Experience



Board of Directors



Agha Shahzad Pervez, Non-Executive Chairman

An experienced corporate professional with over 13 years' experience working with ASX listed companies. Currently holds a role of Executive Chairman of Viridis Mining and Minerals Ltd (ASX:VMM) and Non-Executive Director of Pioneer Lithium Limited (ASX:PLN) and Equinox Resources Limited (ASX:EQN). Previously, Chief Financial Officer of Battery Age Minerals (ASX:BM8) and held numerous roles at Resonance Health Limited (ASX:RHT) including CFO and Company Secretary.



Fadi Diab, Executive Director

A seasoned corporate executive with over 10 years' experience in large financial institutions. Worked on a number of large-scale technology transformation programs which have received industry recognition and awards at a national level. Responsible for managing large operational teams responsible for billions of dollars of payments. Holds a Bachelor of Business in Human Resource Management and Industrial Relations from the University of Western Sydney and a Master of Business Management from the University of Technology Sydney.



Ian O'Grady, Non-Executive Director

40+ years' experience in base and precious metal exploration and resource development, spanning greenfield, near-mine and brownfield exploration in multiple global jurisdictions. Ian held senior geology positions at Sandfire Resources from 2010 to 2023, pivotal in its rise to one of Australia's prominent mining companies. Held senior exploration roles at St Barbara Mining and Sons of Gwalia, instrumental in advancing major mineral projects. Ian's expertise includes leading exploration teams, developing resource models, and implementing effective exploration strategies that have contributed to significant mineral discoveries and resource growth.

Key Team



Dejan Jovanovic, General Manager

An exploration geologist with over 17 years' experience in all stages of exploration project cycles, from area selection, target generation, and target testing, feasibility studies and project development. His roles have included positions with Rio Tinto, contributing to the development of the Jadar lithium-borate deposit; senior exploration roles with Lithium Li Ltd/Pan Global Resources Inc. led to the discovery of the Valjevo lithium-borate deposit; exploration management consulting for clients such as European Lithium (ASX:EUR); and as GM Exploration for EV Resources Limited (ASX:EVR). Holds a Master of Science in Economic and Exploration Geology from the University of Belgrade and is a member of the Professional Geological Society as well as a fellow of the European Federation of Geologists and a Competent Person in accordance with the JORC Code.



Simon Acomb, CFO & Joint Company Secretary

A Chartered Accountant with over 10 years' experience in the areas of accounting, external audit and corporate governance. He has a Bachelor of Commerce and Graduate Diploma in Applied Corporate Governance & Risk Management.



Melanie Ross, Company Secretary

An accounting and corporate governance professional with over 20 years' experience in financial accounting and analysis, audit, business and corporate advisory services in public practice, commerce and state government. She has a Bachelor of Commerce and is a member of the Institute of Chartered Accountants in Australia and New Zealand and an associate member of the Governance Institute of Australia.



Afzaal Pirzada, Technical Advisor

Brings a distinguished career with over four decades in mineral exploration, with experience spanning precious metals, lithium, rare metals, uranium, graphite, vanadium, and base metals. Recently, he has focused on lithium and rare metals exploration, aligning with Bayan's strategic objectives. Has managed numerous exploration projects, served in senior roles including Project Geologist, VP Exploration, and CEO, and authored NI 43-101 technical reports. His extensive knowledge and experience are expected to enhance Bayan's project evaluations and resource development efforts.



Bayan
Mining and Minerals Limited

Project Essentials

Project Overview

First class geology and proximity to infrastructure



Historic mining region

Project located in the prolific Carlin Trend, one of the world's most productive locations for significant gold and silver discoveries

Favourable geology

The region's geology is marked by extensive epithermal systems and favourable structures, which support large-scale mineralisation

Well-developed area

Good infrastructure and a mining-friendly environment are attractive for exploration and potential production

Proximity to multiple major deposits

Multiple major deposits underscores potential for hosting high-value projects across numerous sites



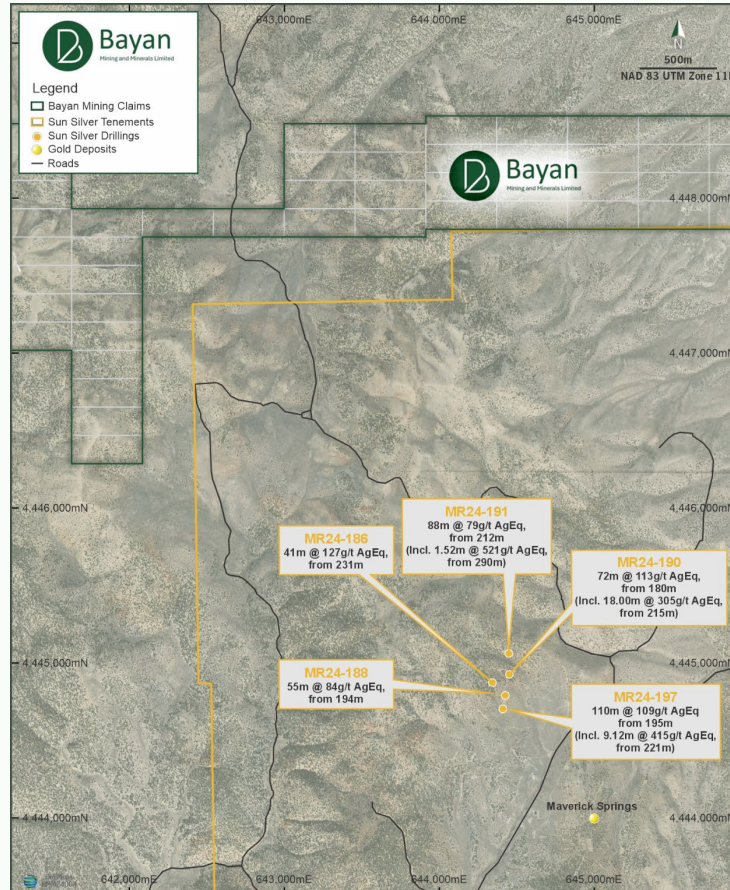
BMM projects located in the prolific Carlin Trend, Nevada.

High Value Area

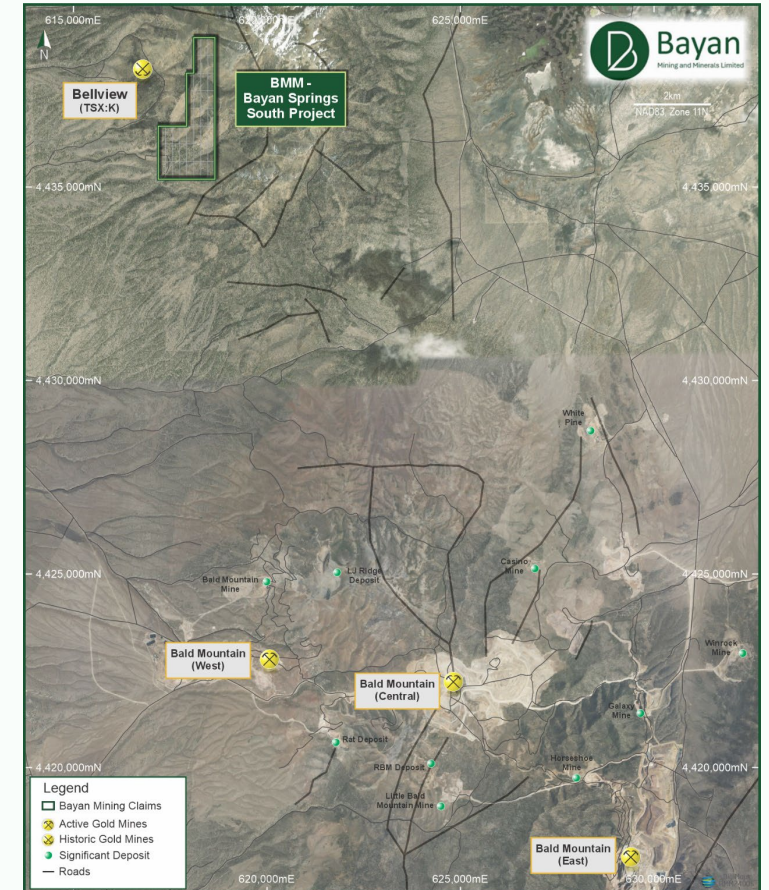
Strong potential for further resource growth



- Bayan's newly staked claims are strategically positioned within a highly prospective region that hosts a substantial silver and gold deposit.
- The claims are immediately along strike from Sun Silver's (ASX:SS1) Maverick Springs Project, which highlights the potential for further resource growth, with ongoing exploration identifying additional high-grade zones beyond current resource boundaries.
- Similarly, the proximity to Kinross's (NYSE:KGC) Bald Mountain Mine, located on the renowned Carlin Trend—a prolific mineral belt in Nevada with a history of major gold discoveries—further underscores the potential of Bayan's licenses to host substantial mineralisation within this productive district. The continuity of favourable geological settings in the project area indicates the potential for the extension of a prospective host environment beyond Kinross's current focus area



Bayan Springs North 116 claims and its proximity to Sun Silver Ltd (ASX:SS1).¹



Bayan Springs South 42 claims and its proximity to Kinross Gold Corp (NYSE:KGC).²

1. Sun Silver Limited (ASX:SS1), ASX Announcement, 28 August 2024. 2. Kinross Gold Corporation (NYSE:KGC) 2023 Annual Mineral Reserve and Resource Statement.

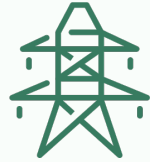
Nevada Mining Overview

Exceptional infrastructure and a mining-friendly environment for project development



Roads

Highway network ensures reliable, efficient transport of equipment, supplies, and personnel to the project sites



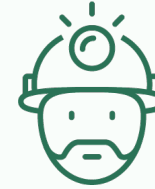
Energy

Energy infrastructure is robust, with many mining operations connected to the electrical grid and renewable energy options



Water

Water resources, while competitive, are accessible in many regions and essential for ongoing project operations



Workforce

Mining in Nevada is near established towns with access to skilled labour and mining support services essential for operational efficiency



Permitting

Streamlined permitting and government support reinforces Nevada as a favourable jurisdiction for mining exploration and development in the USA

Immediate Exploration Focus

Focused exploration program to unlock the potential of the recently staked claims



Identify priority zones
for further investigation



Extensive soil sampling to map out potential mineralised zones across the project area



Rock chip sampling to offering direct insights into mineral composition and grade potential



Detailed desktop study to compile historical data, analyse satellite imagery, and assess prior geological models in the area.



Prioritise areas for more intensive exploration phases as a result



Bayan
Mining and Minerals Limited

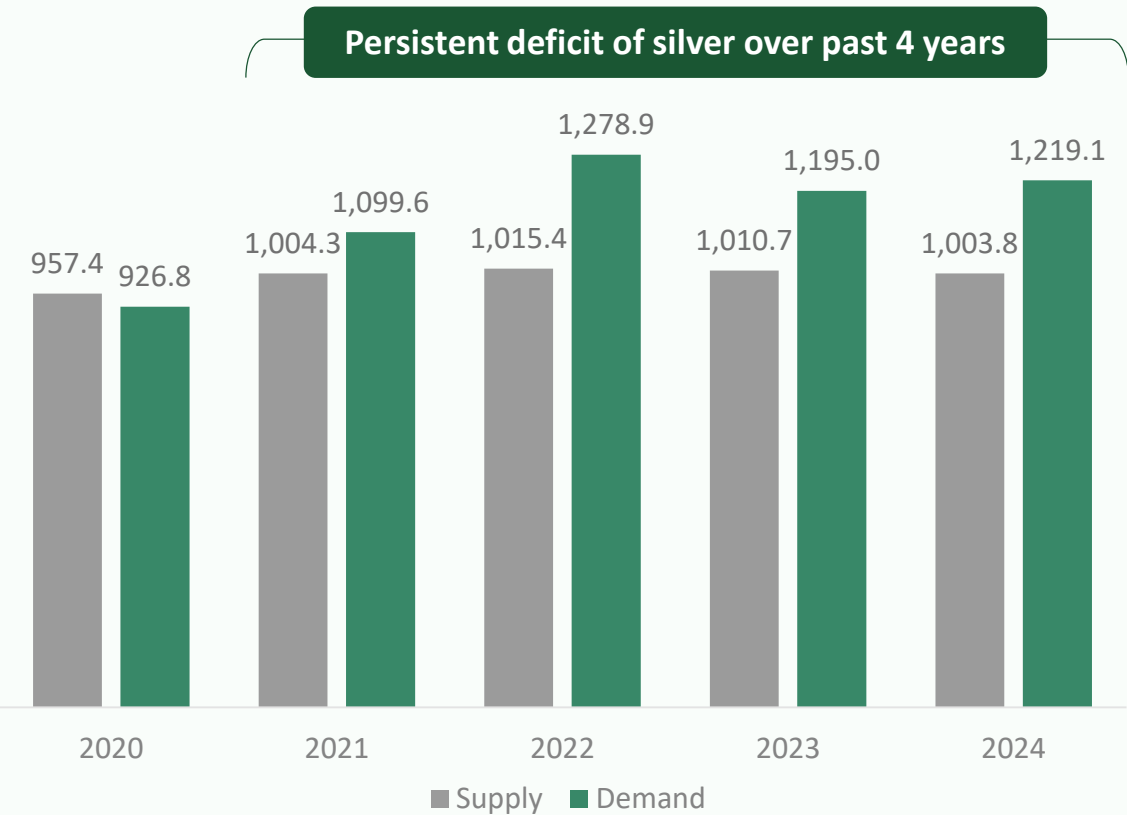
Silver Market Overview

Silver Market - Price and Volume

Deficit of silver supply versus demand driving silver price increases

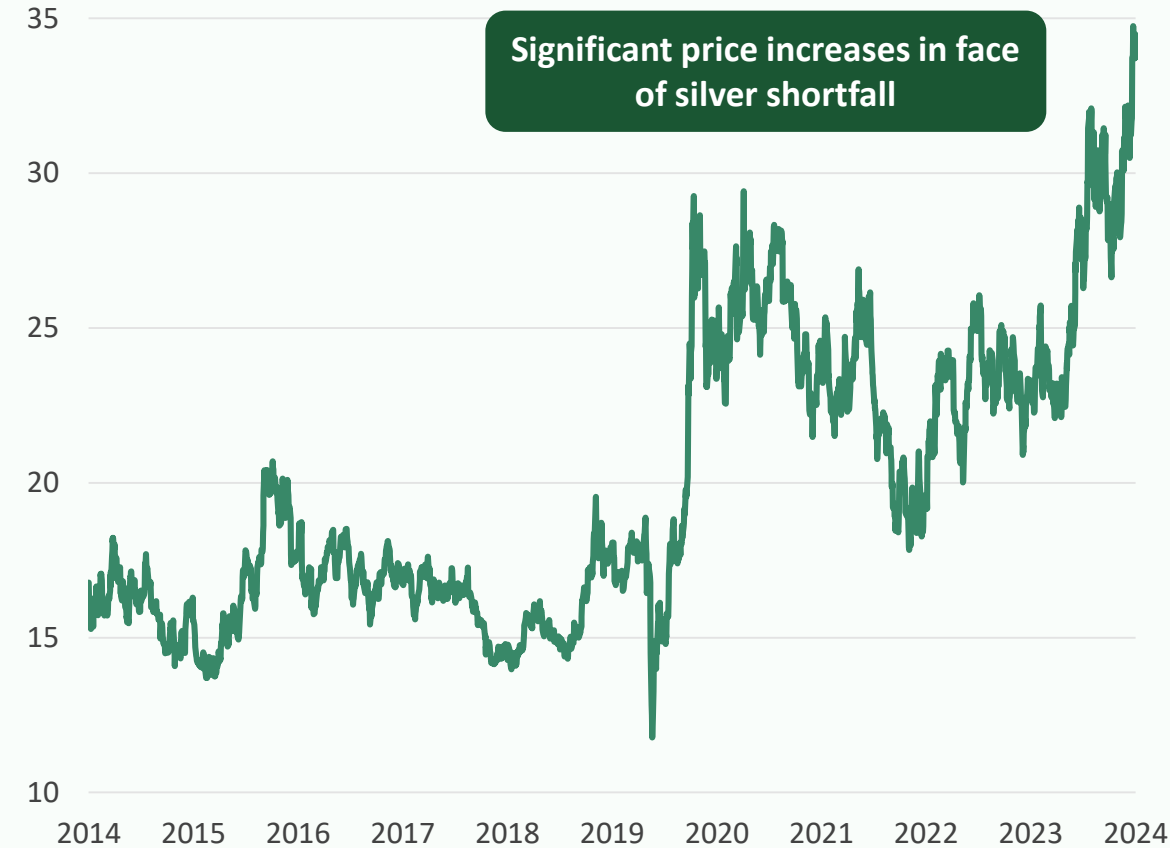


Silver Supply and Demand (Moz)



Source: The Silver Institute, World Silver Survey 2024, April 2024

10-Year Silver Price Trend (USD/oz)



Source: MacroTrends, Silver Prices as at 1 November 2024

Industrial Uses of Silver

Industrial use is a major driver of growth in silver use globally



Major industrial uses for silver



Solar (PV)



Electric
Vehicles (EV)



Batteries



Nuclear
industry



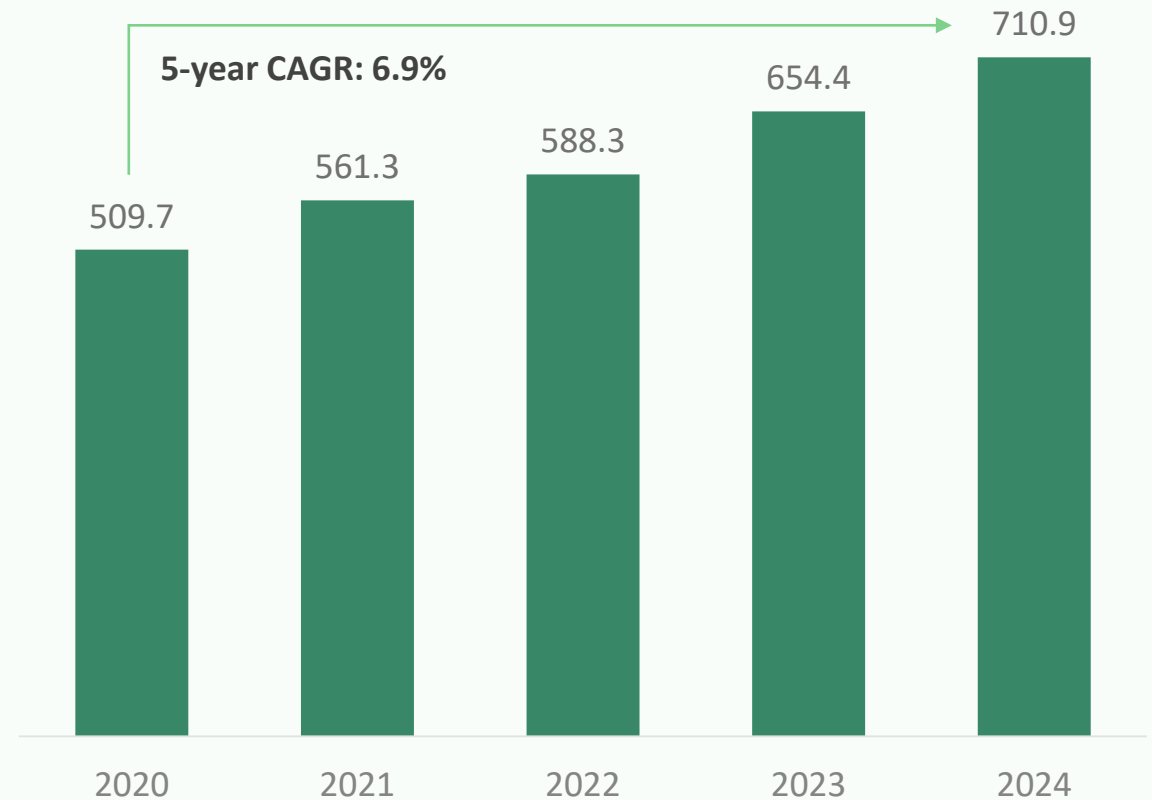
Medical
devices

Global industrial silver demand – 2023 (Moz)



Source: The Silver Institute, World Silver Survey 2024, April 2024

Industrial demand for Silver (Moz)



Solar/EVs as Key Drivers for Silver

Silver is pivotal



Demand for silver in Solar growing 3x faster than industrial market



Ongoing decarbonisation globally driving PV panel demand

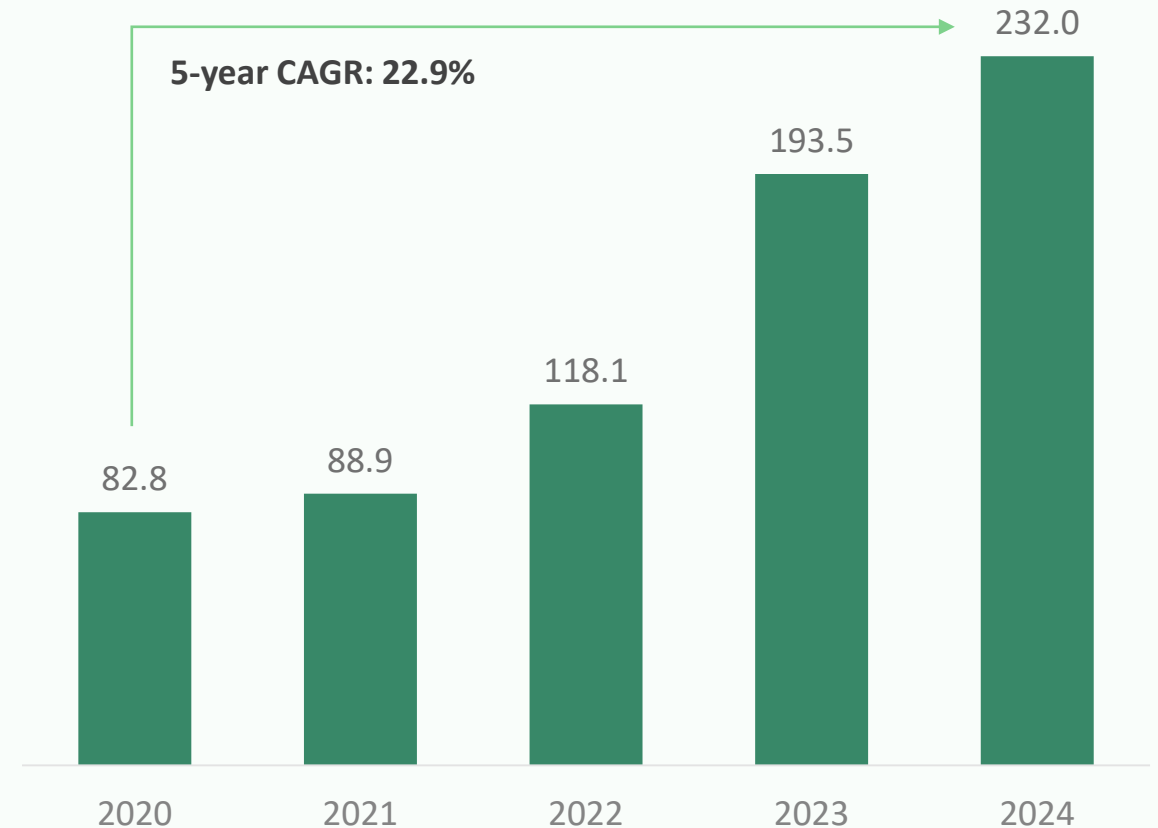


Accelerated adoption of new generation PV cells has helped drive 20%+ growth



Further increases from structural changes such as the shift from fuel vehicles to EVs

Solar (PV) demand for Silver (Moz)



Source: The Silver Institute, World Silver Survey 2024, April 2024



Bayan
Mining and Minerals Limited

Canadian Assets

Quebec Projects



Established mining region

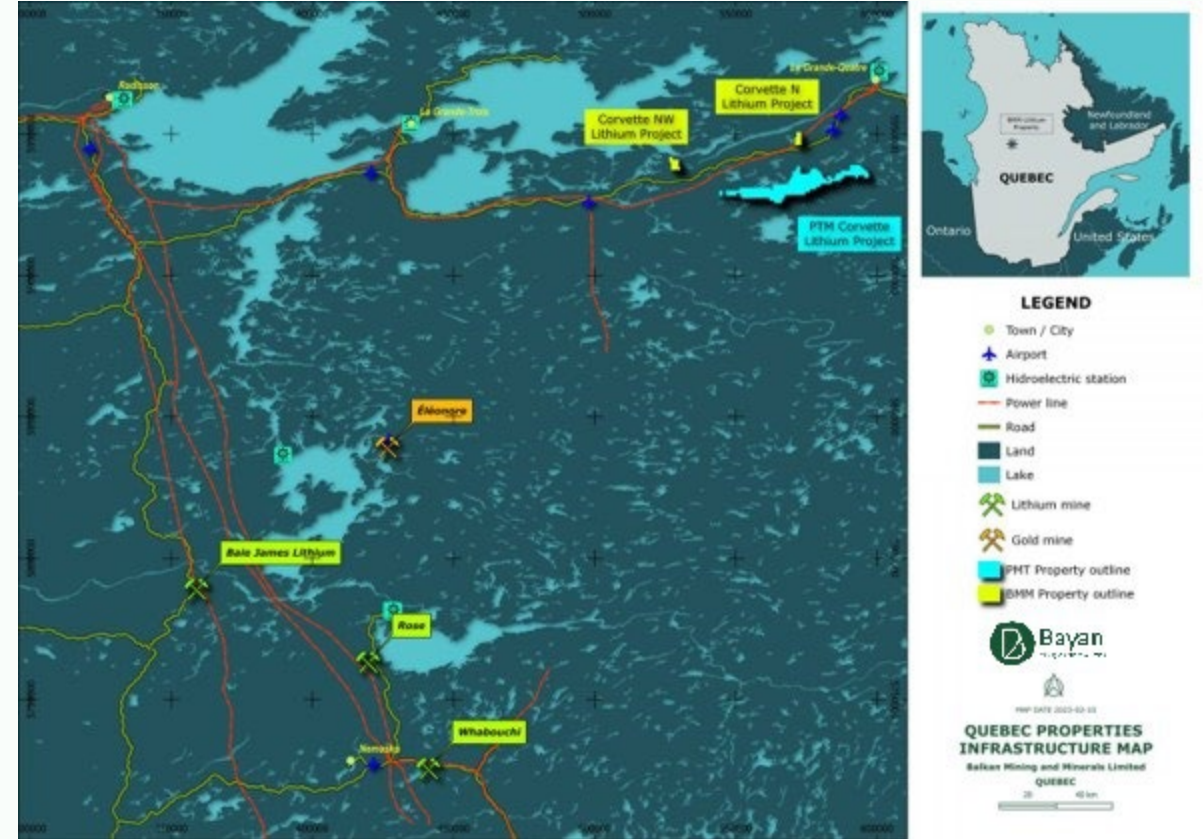
~21km² of claims, 100% owned by BMM located in the centre of the La Grande Greenstone Belt in the James Bay Region of Quebec.¹

Proximity to notable lithium discoveries

The Corvette North and Corvette Northwest Projects are located approximately 10 km north of Patriot Battery Metals' Corvette Project which has estimated mineral resources of 80.1 million tonnes at 1.44% Li₂O and 163 ppm Ta₂O₅ in the indicated category, and 62.5 million tonnes at 1.31% Li₂O and 147 ppm Ta₂O₅ in the inferred category.²

Program commenced

A recently completed desktop study on the Corvette North project identified both lithium–REE and base metals targets.³



BMM's Quebec Projects Location Map

1. BMM, ASX Announcement, 31 July 2024. 2. Patriot Battery Metals Inc., ASX announcement, 22 August 2024. 3. BMM - ASX Announcement 19 November 2024

Ontario Projects



Portfolio of highly prospective ground for lithium

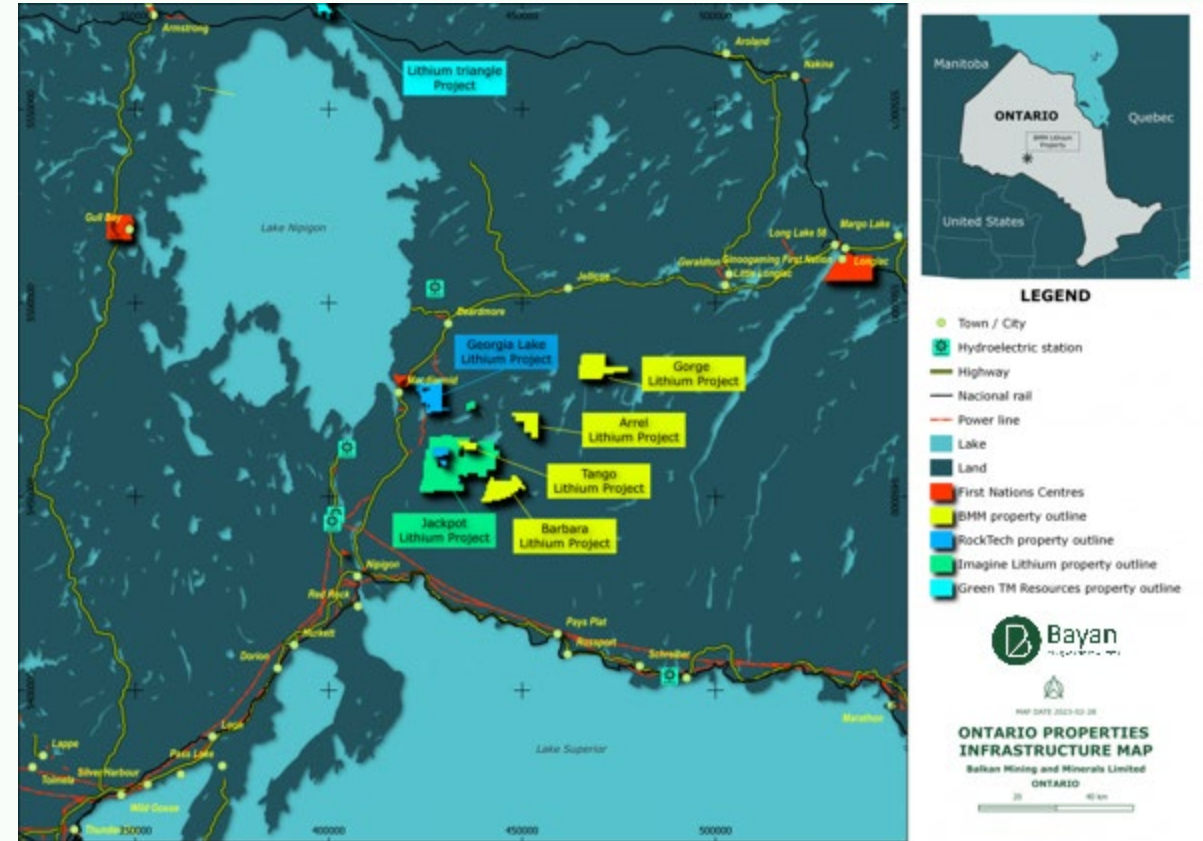
The portfolio comprising Gorge, Tango, Arrel and Barbara Lake exploration projects covering 120km² of highly prospective ground for lithium.¹

World-class jurisdiction

Portfolio is in a world-class lithium jurisdiction in the Thunder Bay North Mining District of Ontario, Canada.¹

Maiden diamond drill program completed

A maiden 1,649m diamond drill program was completed at the Gorge Lithium Project focused on known pegmatite occurrences.²



BMM's Ontario Projects Location Map

1. BMM, ASX Announcement, 9 March 2023.

2. BMM, ASX Announcement, 12 December 2023.

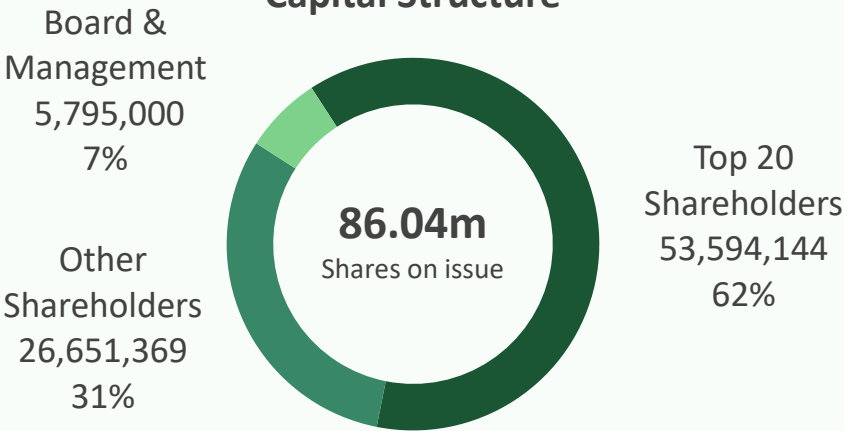
Corporate Snapshot



Capital Structure

Shares on issue	86,040,513
Unlisted Options @ \$0.30 (expiry 06/10/2025)	2,000,000
Unlisted Options @ \$0.30 (expiry 05/12/2026)	3,000,000
Unlisted Options @ \$0.075 (expiry 06/12/2027)	11,500,000
Share Price (as at 13 January 2025)	\$0.051
Market Capitalisation (as at 13 January 2025)	\$4.39m
Cash (as at 30 September 2024)	\$573k
Enterprise Value	\$3.82m

Capital Structure



Significant Shareholders

Shareholder	No. of Shares	%
Ifrah Nishat	9,296,532	10.80%
David Dominic Pevcic	7,300,000	8.48%
Bilal Ahmad	7,080,000	8.23%



For further information, please contact:

Fadi Diab

Executive Director

Tel: +61 8 6188 8181

- E: fadi.diab@bayanminerals.com.au