

A PREMIER NORTH AMERICAN GOLD MINING COMPANY

INVESTOR PRESENTATION - JANUARY 2024



CAUTIONARY STATEMENTS



CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This presentation (this "Presentation") contains forward-looking information and forward-looking statements (together, "forward-looking statements") within the meaning of applicable Canadian securities laws and the United States Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical fact, are forward-looking statements and are based on expectations, estimates and projections as at the date of this Presentation. Any statement that involves discussions with respect to predictions, beliefs, plans, projections, objectives, assumptions, future events or performance (often but not always using phrases such as "expects", or "does not expect", "is expected", "anticipates" or "does not anticipates", "plans", "budget", "scheduled", "forecasts", "estimates", "believes" or "intends" or variations of such words and phrases or stating that certain actions, events or results "may" or "could", "would", "might" or "will" be taken to occur or be achieved) are not statements of historical fact and may be forward-looking statements.

In this Presentation, forward-looking statements relate, among other things: the ability of Osisko Development", the "Company" or "ODV") to achieve the results in the Cariboo FS (as defined herein); the assumptions, qualifications and limitations of the results of the Cariboo FS, including the economic results (NPV, IRR, FCF and AISC calculations) and the sensitivity analysis of the variables included therein; LOM estimates; producing, long-life and profitable gold mine (or any of those things); capital cost estimates; operating cost estimates; popularing cost estimates; popularing cast estimates; the assumptions, limitations and qualifications and qualifications; infrastructure assumptions; processing expectations; infrastructure assumptions; permitting, environmental and closure expectations (timing and if at all); steps required to obtain an EAC; cooperation of stakeholders, community and partners; royalties; any potential value enhancement opportunities; the benefits (if any) of the sorting facility on reducing processing goods; increasing gold recoveries and reducing waste materials; our ability of exploration results (including drilling) to accurately predict mineralization; future mining activities; the ability of Osisko Development to identify mineral resources beyond current mineral resource estimates; the unitity of the existing infrastructure at the Trixie test mine ("Trixie"); the utility of historic data in respect of Trixie; the ability of our mining operations; Osisko Development to obtain further capital on reasonable terms; the profitability of our mining operations; Osisko Development company in Canada, U.S.A. and Mexico; indicative valuations; expected investor returns; mineral inventory; and estimates of gold prices. All forward-looking statements entail various risks and uncertainties that are based on current expectations and actual results may differ materially from those contained in such information.

Although Osisko Development believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements involve known and unknown risks, uncertainties and other factors and are not guarantees of future performance and actual results may accordingly differ materially from those in forward-looking statements. These uncertainties and risks relate, among other things, to: the Company's ability of cachieve the results of and sensitivities in the Cariboo FS; the assumptions, limitations and qualifications relating to the Trixie MRE; the ability of exploration activities (including drill results) to accurately results of a caccurately results of exploration activities, including drilling; property interests in the assets of Osisko Development; the ability of the results of exploration activities; risks relating to mining activities; fluctuations in spot and forward prices of gold, silver, base metals or certain other commodities; fluctuations in currency markets (such as the Canadian dollar to United States dollar exchange rate); change in international and local government, legislation, taxation, covernments and political or economic developments; risks and hazards associated with the business of mineral exploration, development and mining (including environmental hazards), industrial accidents, industrial accidents, industrial accidents and political or economic developments; risks and hazards; the presence of laws and regulations that may impose restrictions on mining; employee relations; relationships with and claims by local communities and indigenous populations; availability of increasing costs associated with mining inputs and labour; the speculative nature of mineral exploration and development (including the risks of obtaining necessary licenses, permits and approval from government authoroxing); and title to properties. However, there can be no assurance that forward-looking statements and investors should not place undue reliance on forward-looking statements

For additional information with respect to these and other factors and assumptions underlying the forward-looking statements made herein concerning Osisko Development, please refer to the public disclosure record of Osisko Development, including the restated annual information form of Osisko Development for the year ended December 31, 2022 as amended, and the most recent annual and interim financial statements and related managements discussion and analysis of Osisko Development, which are available on SEDAR+ (www.sedarplus.ca) and EDGAR (www.sedarplus.ca) under Osisko Development's issuer profile. The forward-looking statements in this presentation reflect management's expectations any intention or obligation to update or revise any forward-looking statements, whether as a result of new reflect management's expectations any intention or obligation to update or revise any forward-looking statements, whether as a result of new reflect management's expectations are result of new reflect management's expectations are result of new reflect management's expectation for the public disclosure record of Osisko Development, including the restated annual and interim financial statements and related managements of Osisko Development disclosure record of Osisko Development, including the restated annual and interim financial statements and related management's expectation for the public disclosure record of Osisko Development and analysis of Osisko Development, including the restated annual and interim financial statements and related management's expectation for the public disclosure record of Osisko Development and interim financial statements and related management's expectation for the public disclosure record of Osisko Development and related management's expectation for the public disclosure record of Osisko Development and related management's expectation for the public disclosure record of Osisko Development and related management's expec

This Presentation does not constitute an offer to sell or a solicitation of an offer to buy any securities in the United States or any other jurisdiction. No securities may be offered or sold in the United States or in any other jurisdiction in which such offer or sale would be unlawful prior to registration under the U.S. Securities Act of 1933 or an exemption therefrom or qualification under the securities laws of such other jurisdiction or an exemption therefrom.

Unless otherwise noted, this Presentation has been prepared based on information available as of January 5, 2024. All currency references are to Canadian dollars, unless specified otherwise.

NON-IFRS MEASURES

ODV used in this Presentation, certain non-IFRS measures including, "all-in sustaining cost" or "AISC" and "total cash cost". All-in sustaining cost per gold ounce is defined as production costs less silver sales plus general and administrative, exploration, other expenses and sustaining capital expenditures divided by gold ounces. Cash costs are a non-IFRS measure reported by ODV on an ounces of gold sold basis. Cash costs include mining, processing, refining, general and administration costs and royalties but excludes depreciation, reclamation, income taxes, capital and exploration costs for the life of the mine. The Company believes that such measures provide investors with an alternative view to evaluate the performance of the Company. Non-IFRS measures on the variation of the companies. The data is intended to provide additional information and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with IFRS. See the section entitled "Non-IFRS Measures" in the news release of the Company dated January 3, 2022 and the Cariboo FS (as defined herein), which are available on SEDAR+(www.sec.gov) under Osisko Development's issuer profile, and on Osisko Development's corporate website (https://osiskodev.com/cariboo-gold-project/).

CAUTIONARY NOTE TO U.S. INVESTORS

Osisko Development is subject to the reporting requirements of the applicable Canadian securities laws, and as a result, reports information regarding mineral properties, mineralization and estimates of mineral reserves and mineral resources in accordance with Canadian reporting requirements, which are governed by National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* ("NI 43-101"). NI 43-101 differs significantly from the disclosure requirements of the United States Securities and Exchange Commission (the "SEC") generally applicable to US companies. As such, the information included in this Presentation concerning mineral properties, mineralization and estimates of mineral resources is not comparable to similar information made public by U.S. companies subject to the reporting and disclosure requirements of the SEC.

CAUTIONARY STATEMENTS



CAUTION REGARDING MINERAL RESOURCE ESTIMATES

This Presentation uses the terms measured mineral resources, indicated mineral resources, and inferred mineral resources as a relative measure of the level of confidence in the resource estimate. Readers are cautioned that mineral resources are not economic mineral reserves and that the economic viability of mineral resources that are not mineral resources has not been demonstrated. Mineral resources may be materially affected by geology, environmental, pernitting, legal, title, socio-political, marketing or other relevant issues. However, other than as disclosed in this Presentation, Osisko Development is not aware of any known environmental, permitting, legal, title, socio-political, marketing or other resources disclosed herein. It cannot be assumed that all or any part of an inferred mineral resource will ever be upgraded to the category of indicated mineral resource. The mineral resource estimate is classified in accordance with the Canadian Institute of Mining, Metallurgy and Petroleum's CIM Definition Standards on Mineral Resources and Mineral Reserves adopted in 2019 and incorporated by reference into NI 43-101. Under Canadian rules, estimates of inferred mineral resources may not form the basis of feasibility or pre-feasibility studies or economic studies except for a preliminary economic assessment as defined under NI 43-101. Readers are cautioned not to assume that further work on the stated resources will lead to mineral reserves that can be mined economically.

CAUTION REGARDING TEST MINING WITHOUT FEASIBILITY STUDY

The Company cautions that its prior decision to commence small-scale underground mining activities and batch vat leaching at the Trixie test mine was made without the benefit of a feasibility study, or reported mineral resources or mineral reserves, demonstrating economic and technical viability, and, as a result there may be increased uncertainty of achieving any particular level of recovery of material or the cost of such recovery. The Company cautions that historically, such projects have a much higher risk of economic and technical failure. Small scale test-mining at Trixie was suspended in December 2023 and resumed in the second quarter of 2023. Even with the resumption of small scale test-mining at Trixie, there is no guarantee that production will continue as anticipated or at all or that anticipated production costs will be achieved. The failure to continue production may have a material adverse impact on the Company's cash flow to fund operations. Failure to achieve the anticipated production costs may have a material adverse impact on the Company's cash flow and potential profitability. In continuing current operations at Trixie, the Company has not based its decision to continue such operations on a feasibility study, or reported mineral resources or mineral reserves demonstrating economic and technical viability.

BURGIN HISTORIC RESOURCE

The past producing Burgin mine, previously operated by Kennecott until 1978, has potential for a significant silver-lead-zinc-gold deposit. The historic resource as outlined in the 2011 PEA is referenced herein. Osisko Development believes that the historic resource continues to be relevant and reliable as an indication of the potential of the Burgin Mine. Further exploration work including drilling will be required to upgrade the historic resource to current. Osisko Development cautions sufficient work has not been done to classify the historic resources as a current resource and Osisko Development is not treating the historic resources as a current resource.

SCIENTIFIC AND TECHNICAL INFORMATION

The scientific and technical information in this Presentation relating to the Cariboo Gold Project is supported by a technical report entitled "NI 43-101 Technical Report – Feasibility Study for the Cariboo Gold Project" and dated January 12, 2023 (with an effective date of December 30, 2022), which was prepared for Osisko Development by BBA Engineering Ltd. with contributions from several independent consulting firms, including Falkirk Environmental Consultants Ltd., Golder Associates Ltd., Innovexplo Inc., JDS Energy and Mining Inc., KCC Geoconsulting Inc., KCC Geoconsulting Inc., KCD Geoconsulting Inc., KCD Geoconsulting Canada) Inc., and WSP USA Inc. (the "Cariboo FS"). Each author of the Cariboo FS is a "qualified person" within the meaning of NI 43-101 and considered to be independent" of Osisko Development for purposes of Section 1.5 of NI 43-101. Please see the full text of the Cariboo FS for assumptions, qualifications and limitations relating to the disclosure about the Feasibility Study on the Cariboo Gold Project. An electronic copy of the Cariboo FS is available on SEDAR+ (https://osiskodev.com/cariboo-gold-project/). The Cariboo FS supersedes the technical report entitled "NI 43-101 Technical Report - Preliminary Economic Assessment for the Cariboo Project" and dated June 22, 2022 (with an effective date of May 24, 2022) (the "Cariboo PEA") as the current technical report in respect of the Cariboo Project for purposes of NI 43-101. Therefore, the Cariboo PEA should no longer be relied upon.

The scientific and technical information in this Presentation relating to the initial mineral resource estimate for Trixie, Tintic Project is supported by a technical report entitled "NI 43-101 Technical Report, Initial Mineral Resource Estimate for the Trixie Deposit, Tintic Project, Utah, United States of America" dated January 27, 2023, with an effective date of January 10, 2023 (the "Trixie MRE") prepared, reviewed, and approved by William J. Lewis, P. Geo, Ing. Alan J. San Martin, MAusIMM (CP) and Richard Gowans, P. Eng. Mr. Lewis, Mr. San Martin and Mr. Gowans are employees of Micron International Limited (Micron). Each author of the Trixie MRE is a "qualified person" within the meaning of NI 43-101 and considered to be "independent" of Osisko Development for purposes of Section 1.5 of NI 43-101. Please see the full text of the Trixie MRE for assumptions, qualifications and limitations relating to the disclosure about the initial mineral resource estimate for Trixie, Tintic Project. An electronic copy of the Trixie MRE is available on SEDAR+ (www.sec.aov) under Osisko Development's corporate website (https://osiskodev.com/tintic-project/).

The scientific and technical information in this Presentation relating to the San Antonio Project is supported by the technical report entitled "NI 43-101 Technical Report for the 2022 Mineral Resource Estimate on the San Antonio Project, Sonora, Mexico" and dated July 12, 2022 (with an effective date of June 24, 2022) prepared for Osisko Development by Micon International Limited (the "San Antonio Technical Report"). Each author of the San Antonio Technical Report is a 'qualified person" within the meaning of NI 43-101 and considered to be "independent" of Osisko Development for purposes of Section 1.5 of NI 43-101. Please see the full text of the San Antonio Technical Report is available on SEDAR+ (www.sedarplus.ca) and EDGAR (www.sec.gov) under Osisko Development's corporate website (https://osiskodev.com/san-antonio/).

QUALIFIED PERSONS

Maggie Layman, P.Geo, Vice President Exploration of Osisko Development, and Mr. François Vézina, ing., P.Eng., MBA, Senior Vice President, Project Development, Technical Services and Environment of Osisko Development Corp., each of whom is a "qualified person" for purposes of NI 43-101, have reviewed and approved the scientific and technical information in this Presentation.

ABBREVIATIONS AND UNITS OF MEASUREMENT

In this Presentation, the Company uses certain abbreviations, including: measured and indicated ("M&I"), metric tonnes ("t"), troy ounces ("oz"), grams per tonne ("g/t"), gold ("Au"), silver ("Ag"), copper ("Cu"), lead ("Pb"), zinc ("Zn").

INVESTMENT HIGHLIGHTS





High-Quality Advanced Brownfield Projects in Tier 1

Jurisdictions

Assets located in North America with access to existing infrastructure benefitting from grid power and skilled labor pools



Advancing the Cariboo Gold Project toward Shovel Ready Status in Canada

Feasibility production ~164 kozpa (peak >220 kozpa) over 12-year LOM; C\$502M NPV_{5%} and 20.7% IRR; 2.0 Moz Reserves¹



Developing the Historic Tintic Project in Utah, USA

Fast-tracking Trixie high-grade gold discovery while advancing prospective Cu-Au-Mo porphyry, epithermal and CRD exploration targets



World-class Team Led by CEO Sean Roosen with Strong Focus on Sustainable Mining

Successfully discovered, developed and operated Canadian Malartic, one of the world's largest gold mines



Large, Highly-Prospective

Exploration Properties in North America

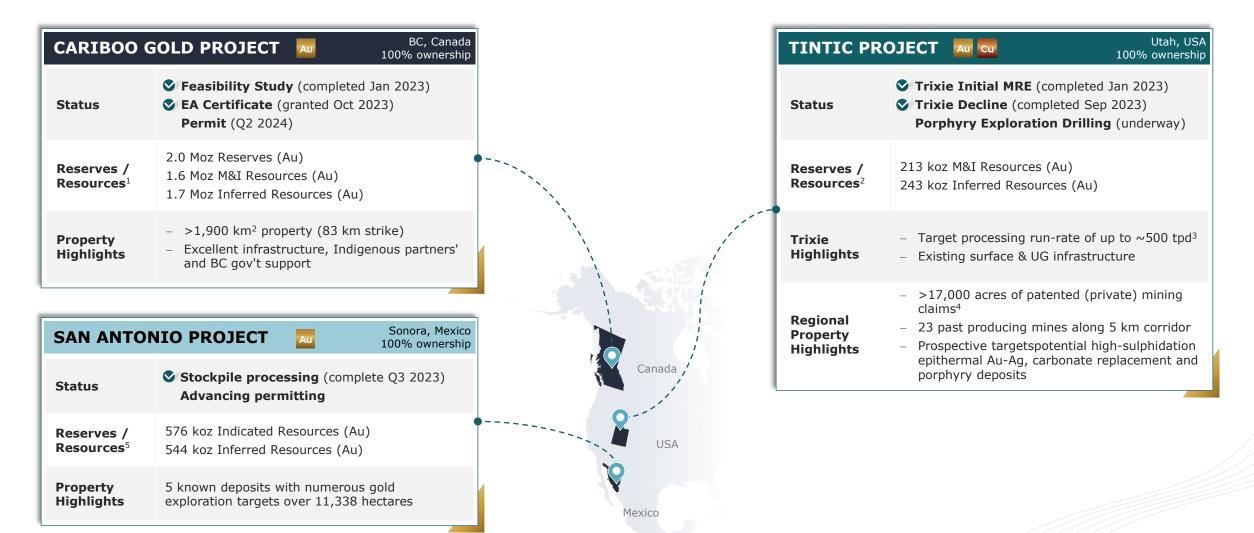
Land package at Cariboo Gold Project alone exceeds the entire footprint of the prolific Val d'Or Mining Camp

Building Toward Becoming a Premier North American Mid-tier Gold Mining Company

PREMIER MINING JURISDICTIONS



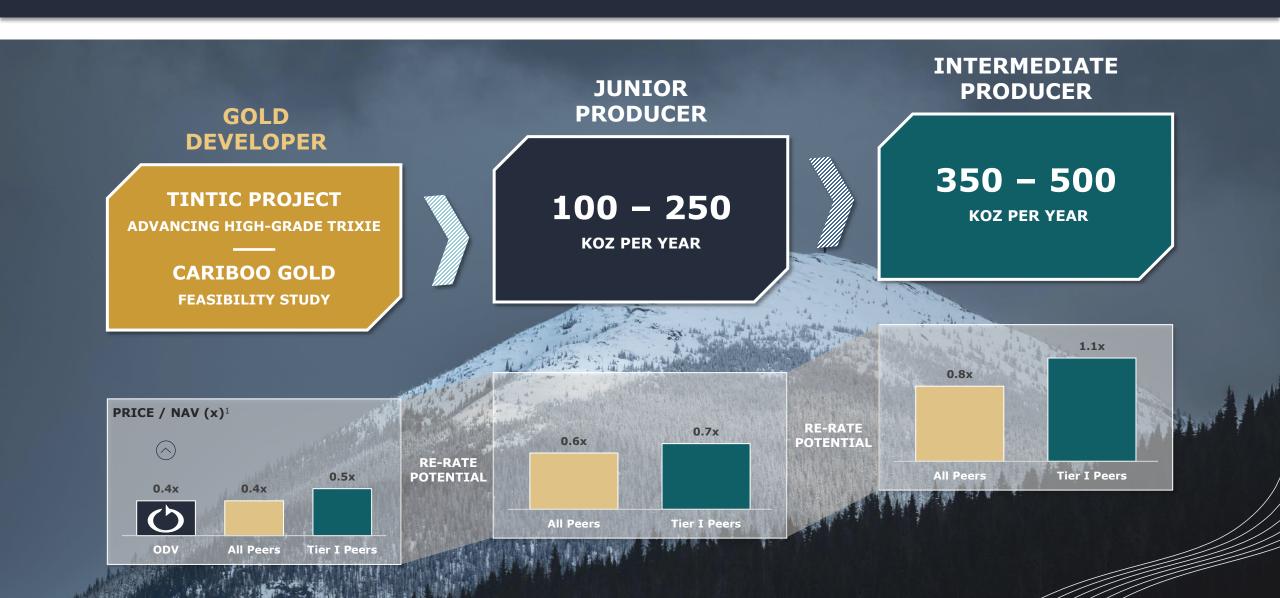
Brownfield properties with existing accessible infrastructure and meaningful exploration upside



^{1.} Refer to the full text of the Cariboo FS technical report for the assumptions, qualifications and limitations relating to disclosure about the Feasibility Study on the Cariboo Gold Project. Mineral reserves include probable reserves 2.031 Moz Au (16.703 Mt grading 3.78 g/t Au), in Indicated, 1.564 Moz Au (14.635 Mt grading 3.32 g/t Au); in Indicated, 1.564 Moz Au (15.470 Mt grading 3.44 g/t Au). Mt grading 3.44 g/t Au). Mt grading 3.44 g/t Au). Mg resources are exclusive of mineral reserves. 2. Refer to the full indicated interest reserves. 2. Refer to the full indicated interest resources consist of: (1) measured mineral resources (11 kt grading 19.61 g/t Au) and 19.53 g/t Ag); and (ii) indicated mineral resources (25kt grading 19.01 g/t Au) and 42.82 g/t Ag. 3. Short tons. 4. 14,200 acres of patented mining claims and a further approximately 3,000 acres of overwhelmingly leased patented mining claims. 4. Refer to the full text of San Antonio Technical Report Indicated resources contain 577 koz Au (14.9 Mt grading 1.20 g/t Au), and Inferred resources 543 koz (16.5 Mt grading 1.02 g/t Au).

EXECUTING ON VISION & STRATEGY





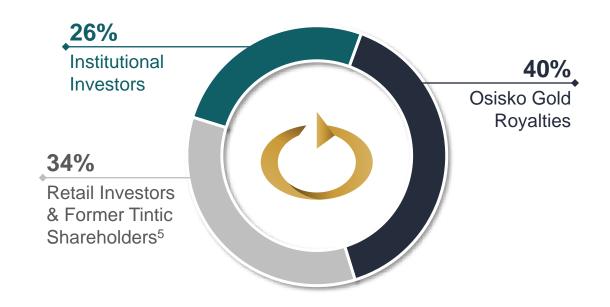
CAPITAL STRUCTURE SNAPSHOT



Osisko Development Corp. 1,2

Current Share Price (closing price on January 5, 2024)	C\$3.80 /share
Basic Shares Outstanding	84.1 million
Options, DSUs, and RSUs	4.2 million
Warrants ³	27.0 million
Fully Diluted Shares Outstanding	115.3 million
Market Capitalization – Basic	C\$319.6 million
Cash & Cash Equivalents	C\$71.5 million
Investment Holdings (marketable securities)	C\$28.4 million
Total Debt ⁴	C\$19.7 million
Enterprise Value - Basic	C\$239.4 million

Shareholder Ownership



Relative Valuation: Price / NAV



Analyst Coverage







Hannam&Partners



Capital Markets





Source: Company disclosures. Broker research. S&P CapitalIQ.

^{1.} Market data, including share price and share count, as at January 5, 2024. 2. Financial information presented as at Sep 30, 2023. 3. 33.9M warrants outstanding exercisable into 24M equivalent shares + 7.8M warrants issued as part of the March 2023 public offering.

4. Includes long-term debt and lease liabilities pertaining to equipment financing. 5. Refer to ODV news release dated May 30, 2022 (ODV Completes Acquisition of Tintic Consolidated Metals, Finalizes Binding Stream Terms And Satisfies Escrow Release Condition For Brokered Subscription Receipt Financing).

2023 HIGHLIGHTS





Delivered an **Initial MRE** for the UG Trixie deposit at the Tintic Project¹

M&I: 213 koz at 28.1 g/t Au

Inferred: 243 koz at 19.6 g/t Au

Trixie portal and UG decline ramp 100% complete in Q3 2023



C\$51.8 million in gross proceeds received from bought deal public offering closed on March 2, 2023

- C\$71.5 million in cash at Q3 2023
- C\$28.4 million in marketable securities



Completed a **Feasibility Study** for the Cariboo Gold Project with a C\$502 million $NPV_{5\%}$ and 21% IRR at \$1,700/oz Au^2

- C\$821 million NPV_{5%} and 31% IRR at \$2,000/oz gold price (spot \$2,045/oz³)
- 2.0 Moz in mineable reserves at 3.78 g/t Au



Granted EA Certificate, signed Process Charter and Joint Information Requirements Table for Cariboo Gold Project, targeting:

Permits in Q2 2024



Continued success at the drill bit at Trixie

Ongoing exploration and delineation drilling of the current Trixie MRE

Initial surface drill program targeting Cu-Mo-Au porphyry potential at Tintic Drilling of Big Hill and Trixie West targets commenced

Advancing permitting efforts at the Cariboo Gold Project





CARIBOO GOLD PROJECT

British Columbia, Canada 100% Ownership





CARIBOO GOLD PROJECT: ASSET SNAPSHOT

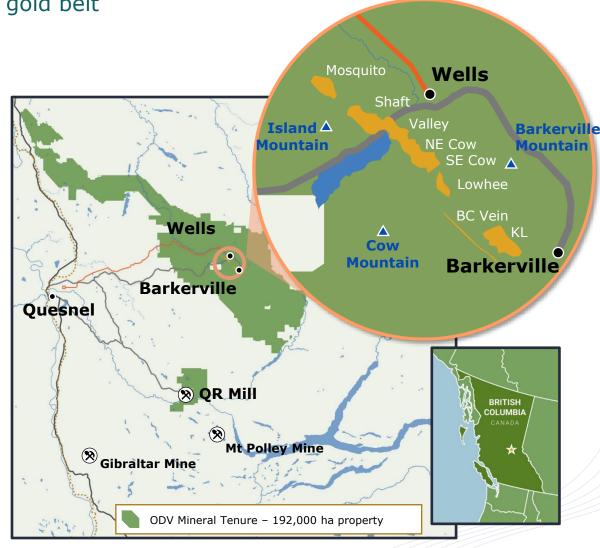


Developing a mining camp in the under-explored Cariboo gold belt

OWNERSHIP	LOCATION / LAND PACKAGE	MINE TYPE	METALS	STAGE
100% ODV	BC, Canada 192,000 ha	Underground	Gold Silver	Feasibility Study (Jan-23)

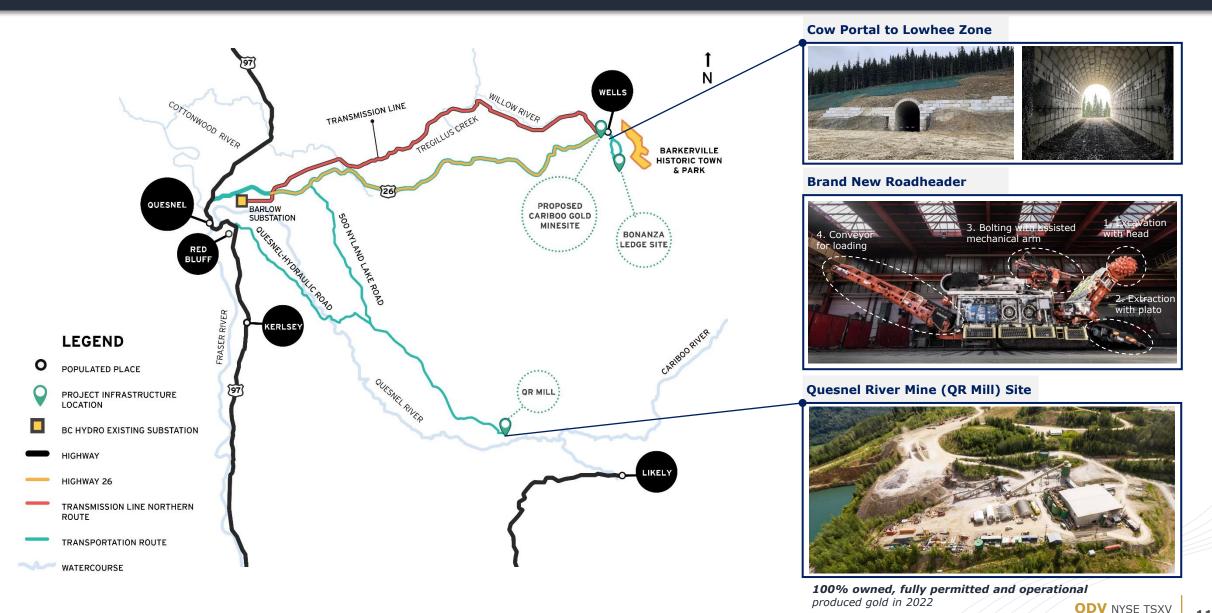
- Two prospective mineralized trends over 83 km strike (192,000 ha property) with 700 km drilled over the last 7 years
- Completed a Feasibility Study envisioning a phased 12-year mine life with a C\$502M NPV_{5%} and production up to 223 koz/yr of gold
- Brownfield site with year-round access, infrastructure and work force, and strong support from the BC government and Indigenous partners
- **Upcoming catalysts:** EA Certificate (granted) **③**; Permits (Q2 2024)

Reserves & Resources ¹							
Classification	Tonnes (000's)	Gold Grade (g/t)	Contained Gold (000's oz)				
Probable reserves	16,703	3.78	2,031				
Measured resources	47	5.06	8				
Indicated resources	14,635	3.32	1,564				
Measured & indicated	14,682	3.33	1,571				
Inferred resources	15,470	3.44	1,712				



EXCELLENT INFRASTRUCTURE, ACCESSIBLE PROJECT LOCATION





CARIBOO PROJECT PERMITTING TIMELINE



Significant progress made in de-risking the project through the permitting process



CARIBOO FEASIBILITY STUDY AT A GLANCE¹





Mine Life

12 years

Phase I (1-3); Phase II (4-12)

First Production

2024 (Phase I)

2027 (Phase II)

Initial Capex

C\$137 M

expansion C\$451 M

Gold Recovered

1.87 Moz

(2.03 Moz Probable Reserves¹)

Gold Production²

~164,000 oz/yr

194 koz/yr (Phase II)

AISC^{2,3}

US\$968/oz

US\$886/oz (Phase II)

NPV_{5%} | IRR

\$1,700 C\$502 M | 20.7%

\$2,000 C\$821 M | 31.4%

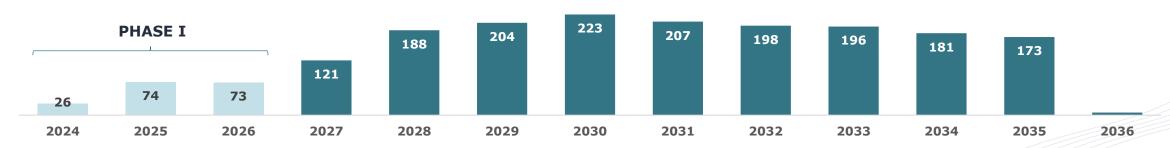
Resources¹

1.57 Moz M&I

1.71 Moz Inferred

Scalable Production Profile with Potential for Incremental Growth

(Gold production, kozpa)



CARIBOO IS A HIGH-QUALITY PROJECT IN A TIER 1 JURISDICTION





GRID POWER 6.6¢ per kWh

Equipment and fleet electrification benefitting from BC Hydro power



ACCESSIBLE PROJECT LOCATION

Connected via Highway 26 and located near major towns with access to skilled labour



>\$250M EXISTING INFRASTRUCTURE

Fully permitted and functional QR mill, equipment (roadheader, ore sorter, water treatment plant), lodging facilities



LOW IMPACT MINING

Significant reduction in carbon footprint and costs (energy, water) by use of ore sorter and roadheader technologies



Remains open at depth with anomalous gold intercepted to a depth of ~900 meters

STRONG PARTNERSHIPS

Participation agreements signed with Lhtako Dené Nation and Williams Lake First Nation

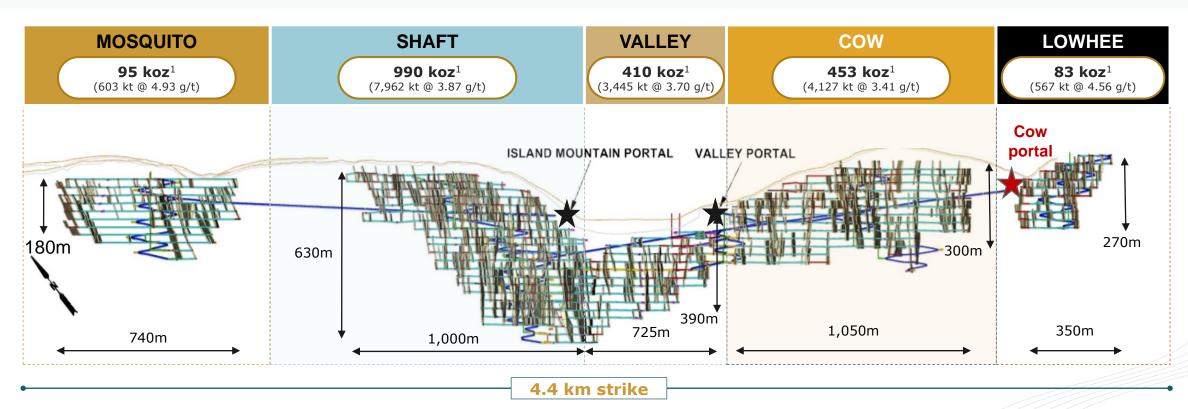
700

MINE DESIGN SUMMARY



Phase 1 production to come from Lowhee, Shaft and Mosquito deposits

- The vertical extent of all mineable blocks averages ~350 meters and mineralization has been tested down to 900 meters
- The mine is planned to be accessed by two portals from surface (Cow and Valley portals)
- Mineralization is open at depth and along strike and between some deposits due to lack of surface drilling
- A series of internal ramps connected to the main ramps provide access to all mining zones, as illustrated below

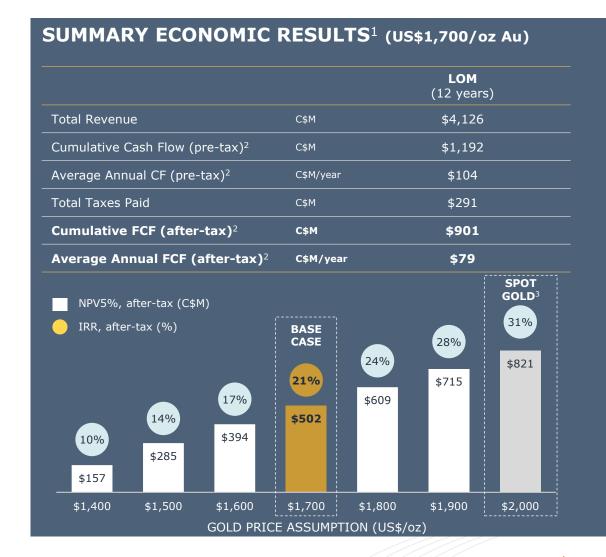


CARIBOO 2023 FEASIBILITY STUDY SUMMARY





Summary Operating Metrics ¹								
		Phase 1 (2024 – 2026)	Phase 2 (2027 - 2036)	LOM (12 years)				
Ore Mined	Mt	1.5	15.2	16.7				
Throughput	tpd	1,500	4,900	4,056				
Average Grade	g/t Au	4.43	3.72	3.78				
Average Recovery	%	93.6%	91.8%	92.0%				
Gold Production	koz	205	1,663	1,869				
Avg. Gold Production	koz/yr	73	194	164				
Operating Costs	C\$/t mined	\$170	\$96	\$103				
Initial / Expansion Capex	C\$M	\$137	\$451	\$588				
Sustaining Capex	C\$M	\$134	\$332	\$467				
Total Cash Costs ²	US\$/oz	\$1,149	\$748	\$792				
AISC ²	US\$/oz	\$1,634	\$886	\$968				



^{1.} Refer to the full text of the Cariboo FS technical report for the assumptions, qualifications and limitations relating to disclosure about the Feasibility Study on the Cariboo Gold Project.

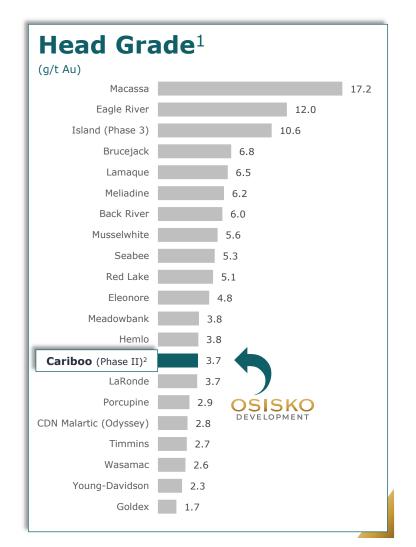
2. This is a non-IFRS measure. Refer to "Non-IFRS Financial Measures" on page 3. 3. Spot gold of \$2,045/oz as at January 5, 2024.

WELL POSITIONED AMONG CANADIAN UG MINES & PROJECTS



Cariboo compares favourably relative to existing underground gold operations and projects in Canada

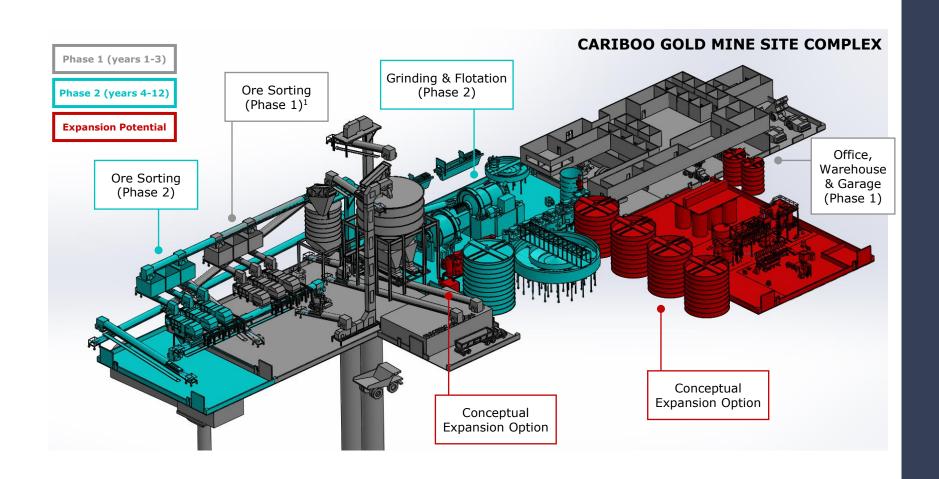






PROCESSING CAPACITY: EXPANSION POTENTIAL





STREAMLINED
DESIGN THAT
ALLOWS SCALING
PROCESSING
CAPACITY BEYOND
4,900 TPD

Current Phase II design layout incorporates sufficient room for future throughput expansion potential

NATURE OF MINERALIZATION FAVORABLE TO ORE SORTING



Metallurgical testing to date indicates that Cariboo mineralization is well suited for ore sorting

Ore Sorting Separates Gold Rich (11.0 g/t1) Host Rock from Unmineralized Sandstone

Pyrite hosted in quartz veins High Density Material (~5 g/cm³)

Sandstone

Low Density Material (~2.5 g/cm³)
Unmineralized Waste

- Stopes designed to follow vein corridors
- Gold uniquely pyrite hosted within a high-density network of mineralized quartz veins
- Ore sorting effective at separating sandstone (waste) from the high-density gold-associated pyrite
- 95.6% average gold recovery and 62.1% separation of the waste material based on testing to date²



481 VEIN CORRIDORS

2 M MINIMUM WIDTH OF VEIN CORRIDORS

6.7 KM MODELLED STRIKE LENGTH

700 M WIDTH TO A DEPTH OF 600 M AND OPEN

~11 G/T AVG
ESTIMATED UNCAPPED
LENGTH WEIGHTED GRADE OF
QUARTZ VEINS IN VEIN
CORRIDORS¹

ORE SORTER TECHNOLOGY: CARIBOO FEASIBILITY STUDY



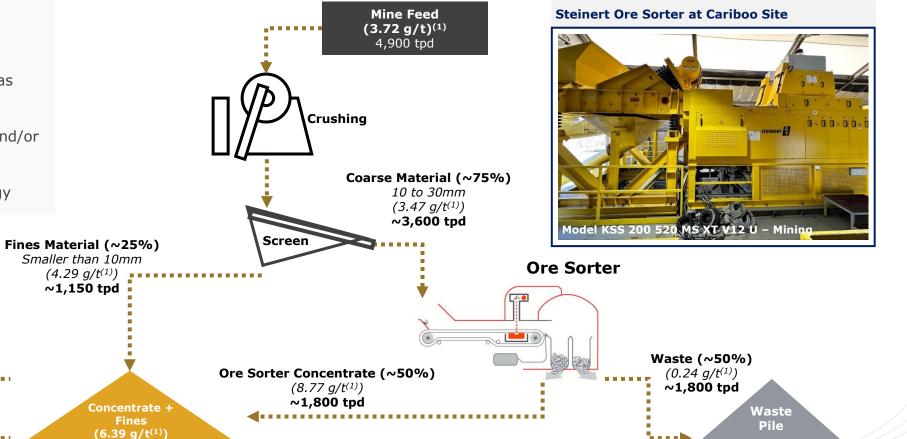
Ore sorting provides significant benefits at low opex of ~\$1.00 per tonne feed



View the ore sorter technology in action <u>here</u> and <u>here</u>

ORE SORTING IS A GREEN TECHNOLOGY

- Significant reduction in energy, water and chemical usage
- √ 40% of mined material removed as waste
- 10-15% of waste used as backfill and/or road construction
- Robust, low maintenance technology



Phase II Flotation Concentrate

 $(29.22q/t^{(1)})$

Phase I

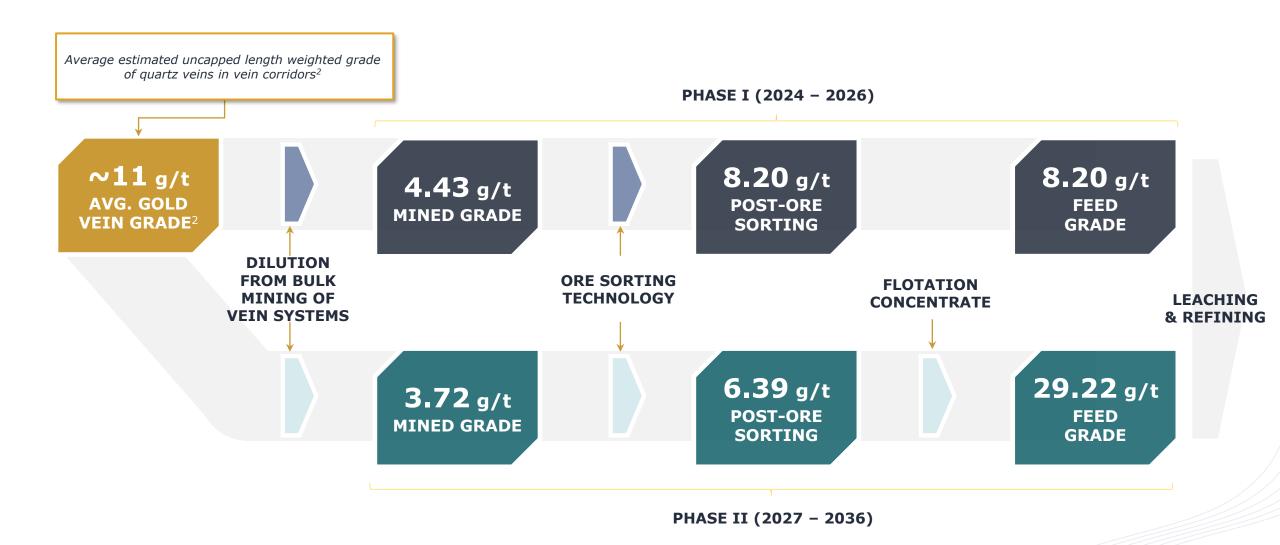
Comminution, Leaching,

Refining @ QR Mill

+ 50% INCREASE IN GRADE BETWEEN MINING AND PROCESSING(2)

UP "GRADE" PROCESS¹





^{1.} Estimates based on LOM average estimated processed grades as defined in the Cariboo FS. Refer to the full text of the Cariboo FS technical report for the assumptions, qualifications and limitations relating to disclosure about the Feasibility Study on the Cariboo Gold Project.

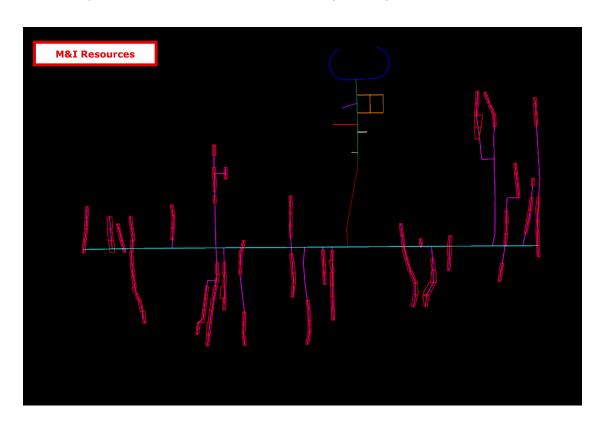
2. Average estimated uncapped length weighted grade based upon work completed to date by ODV QP Maggie Layman. The Cariboo FS does not include references to estimated average uncut gold vein grade.

CARIBOO UPSIDE POTENTIAL THROUGH RESOURCE CONVERSION



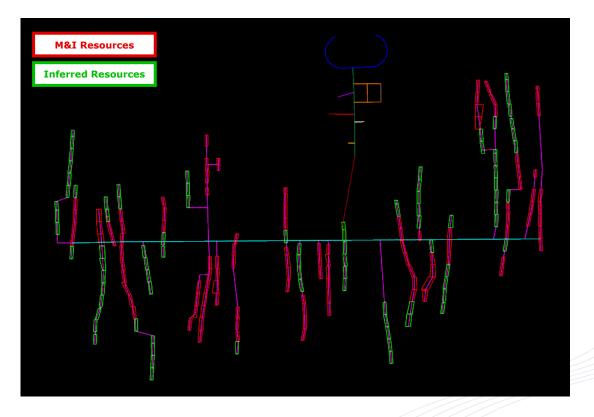
Feasibility Study - M&I Resources Only¹

■ All ramp, access and haulage drifts and other primary infrastructure to be constructed to provide access to minable stopes as defined in the Feasibility Study



Additional Inferred Resources¹

- Potential to convert inferred resources near mined ounces at minimal additional development capex
- Inferred resources appear to be extensions of existing veins

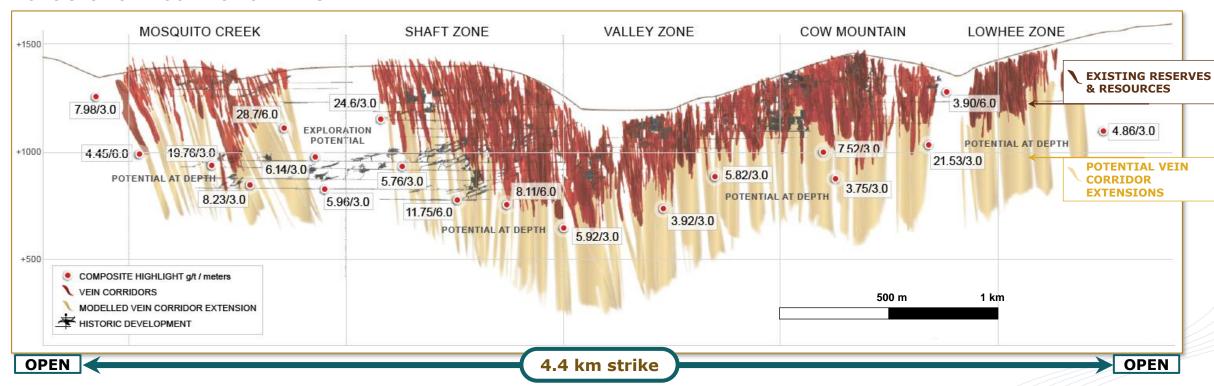


CARIBOO EXPLORATION POTENTIAL AT DEPTH



- 2.03 Moz Au at 3.8 g/t Au in Probable Reserves¹
- 1.57 Moz Au at 3.3 g/t Au M&I resources, 1.71 Moz at 3.44 g/t Au Inferred Resources with potential to be converted¹
- >500 m additional depth potential of known vein corridors adjacent to mine plan untested
- Mineralized veins intersected at depth to ~900 m and still open
- **▼** Average deposit depth is ~350 m

LONG SECTION: LOOKING NORTHEAST



A POTENTIAL GENERATIONAL DISTRICT



Long Section of Selected Canadian Operating Underground Mines vs. Cariboo Gold **OSISKO DEVELOPMENT AGNICO EAGLE ALAMOS GOLD AGNICO EAGLE** Cariboo Deposit1 Young-Davidson² Goldex^{3,4} LaRonde Zone 53,5 Head Grade (Au) $3.78 \, q/t$ $2.15 - 2.35 \, q/t$ 1.72 g/t 3.66 q/t 194 koz (Phase II) **Gold Production** 185 - 200 koz 130 - 140 koz 265 - 285 koz AISC (US\$/oz) \$1,175-1,225 / oz ~\$1,191 / oz \$886 / oz ~\$936 / oz Reserves 2.03 Moz 3.34 Moz 0.96 Moz 0.71 Moz **M&I Resources** 1.57 Moz 1.01 Moz 1.78 Moz 0.65 Moz 4.4 km strike 1,000 m STRONG POTENTIAL AT DEPTH 1,000 m 2,000 m

Cariboo's deposit has only been drilled to an average depth of ~350 m and remains open along strike and at depth

CARIBOO HIGH GRADE DRILL RESULTS



HOLE ID	FROM (M)	TO (M)	LENGTH (M)	AU (G/T)	TARGET
BGM-16-461 ¹	166.80	172.00	5.20	52.59	Cow
BGM-16-553 ²	119.60	123.70	4.10	56.31	Mosquito
BM-21-047 ³	121.00	128.75	7.75	158.40	Lowhee
BM-21-072 ⁴	213.45	220.95	7.50	50.11	Lowhee
CM-21-097 ⁵	255.05	265.55	10.50	164.92	Valley
IM-17-107 ⁶	55.15	63.20	8.05	49.79	Mosquito
IM-17-131 ⁷	426.00	437.55	11.55	53.26	Shaft
IM-17-139 ⁷	417.00	420.00	3.00	72.34	Shaft
IM-17-145 ⁸	458.00	463.30	5.30	87.66	Shaft
IM-17-151 ⁹	395.20	407.25	12.05	72.23	Shaft
IM-17-177 ¹⁰	510.00	516.00	6.00	46.50	Shaft
IM-17-249 ¹¹	538.50	548.45	9.95	48.17	Shaft
IM-20-002 ¹²	157.60	160.80	3.20	63.20	Shaft
IM-21-009 ¹³	206.00	221.00	15.00	23.32	Mosquito
IM-21-024 ¹⁴	94.00	105.00	11.00	35.25	Mosquito

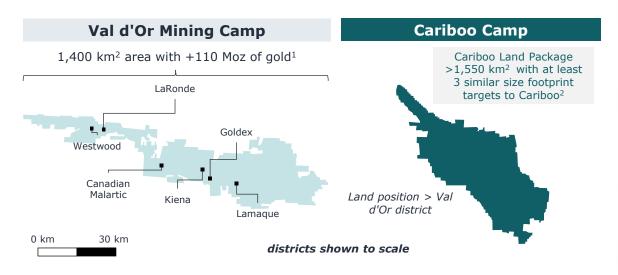
^{1.} Refer to BGM news release dated Aug 31, 2016 (Barkerville Gold Mines Intersects 10.02 G/T (0.29 oz/t) Au Over 22.20 Metres including 13.01 g/t (0.38 oz/t) Au Over 11.50 Metres In cow Mountain Phase I Drilling). 2. Refer to BGM news release dated Dec 15, 2016 (Barkerville Intersects 11.36 g/t Au over 12.36 Metres and 56.31 g/t Au over 4.10 Metres in Island Mountain Phase I Drilling). 3. Refer to DDV news release dated Dct 26, 2021 (Osisko Development Intersects 50.11 G/T Au Over 7.50 Meters including 630 G/T Au Over 0.55 Meters including 630 G/T Au Over 0.55 Meters including 630 G/T Au Over 0.55 Meters at Loope Development Intersects 50.11 G/T Au Over 11.50 Metres at Mosquito Creek). 7. Refer to BGM news release dated Jun 1, 2022 (Osisko Development Intersects 24.13 g/t Au Over 12.70 Metres at Mosquito Creek). 7. Refer to BGM news release dated Dct 11, 2017 (BGM Intersects 24.13 g/t Au Over 12.70 Metres at Mosquito Creek). 7. Refer to BGM news release dated Dct 12, 2017 (BGM Intersects 20.53 G/T Au Over 11.55 Metres at Shaft Zone). 8. Refer to BGM news release dated Dct 11, 2017 (BGM Intersects 20.53 G/T AU Over 12.05 Metres at Shaft Zone). 9. Refer to BGM news release dated Dct 12, 2017 (BGM Intersects 27.23 g/t Au Over 12.05 Metres at Shaft Zone). 10. Refer to BGM news release dated Dct 11, 2017 (BGM Intersects 27.23 g/t Au Over 12.05 Metres at Shaft Zone). 11. Refer to BGM news release dated Apr 4, 2018 (BGM Intersects 48.17 g/t Au Over 9.95 Meters on Island Mountain). 12. Refer to DDV news release dated Mountain At Cariboo And Announces The Grant Of Replacement Restricted Share Units). 14. Refer to DDV news release dated Jun 6, 2021 (ODV Intersects 35.25 g/t Gold Over 11.0 Metres on Island Mountain At Cariboo).

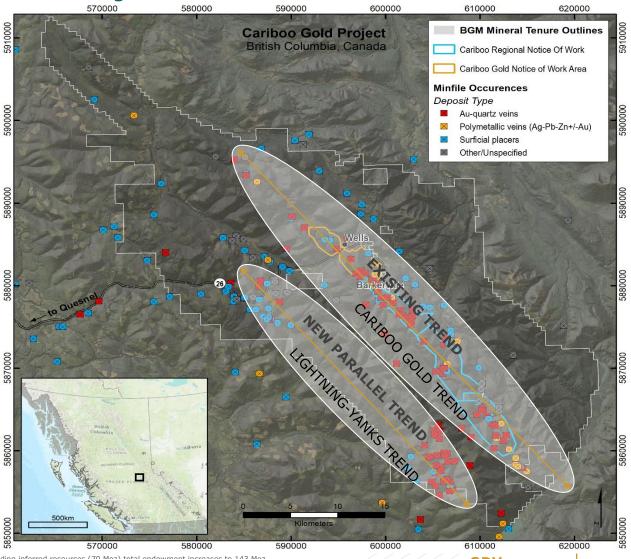
DEVELOPING A MINING CAMP



Cariboo hosts two main trends over 86 km in combined strike length

- District-scale exploration upside in under-explored Cariboo Gold Belt
- High degree of confidence in geological model with anomalous gold values >2.0 g/t Au in ~80% of drill holes
- 155,000 ha property with 83 kilometers strike of gold targets
- √ 700,000 meters drilled in the last seven years
- Strong support from the BC government
- ▼ Year-round exploration and access, infrastructure and work force





^{1.} Source: DigiGeodata as at Dec 31, 2019. Total gold endowment includes historical production (73 Moz), reserves (19 Moz), and M&I resources (21 Moz). Including inferred resources (70 Moz) total endowment increases to 143 Moz. 2. Total land package of ~1,900 km² over all claims, including those around QR mill.

ODV NYSE TSXV osiskodev.com



TINTIC PROJECT

Utah, USA 100% Ownership





TINTIC PROJECT: ASSET SNAPSHOT

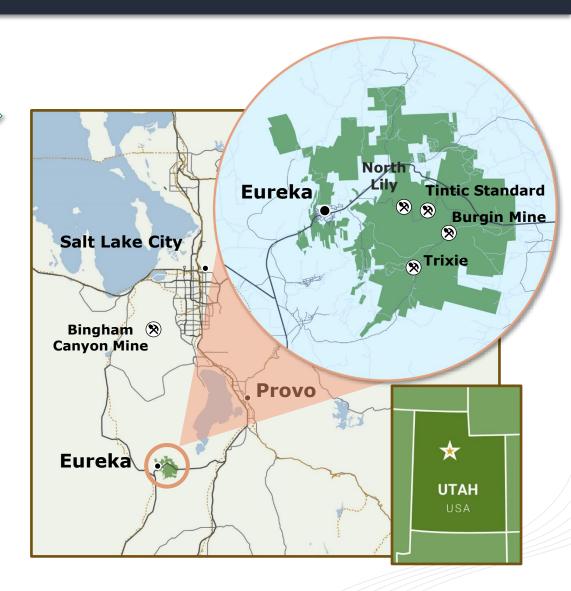


Highly Productive Historical Mining District

OWNERSHIP	LOCATION / LAND PACKAGE	MINE TYPE	METALS	STAGE
100% ODV	Utah, USA >17,000 acres of patented claims ¹	Underground	Gold, Silver Cu, Pb, Zn	Initial Resource (Q1 2023)

- Located 95 km south of Salt Lake City, Utah, ~65 km from the prolific Bingham Canyon copper mine, one of the largest operating open pit mines globally
- Fast-tracking Trixie while advancing other prospective exploration targets, including high quality porphyry, epithermal and CRD targets
- Second largest metal producing district in Utah following Bingham, with 23 past-producing mines located within Tintic property
- **Upcoming catalysts:** Trixie initial MRE (Q1 2023) **②**; Decline to Trixie main level (complete) **③**; Surface porphyry drilling (underway); Target processing capacity up to 500 tons per day





TRIXIE INITIAL MINERAL RESOURCE ESTIMATE ("MRE")



RESOURCE	TONNES	METAL	GRADE	CONTAINED METAL		
CATEGORY	(000's)	(g/t Au)	(g/t Ag)	(000's oz Au)	(000's oz Ag)	
MEASURED	11	190.61	195.53	67	69	
INDICATED	225	20.17	43.73	146	316	
MEASURED & INDICATED	236	28.08	50.77	213	385	
INFERRED	385	19.64	42.82	243	530	



Deposit stable to COG variation M&I ounces decrease 5% at 7.50 g/t Au COG



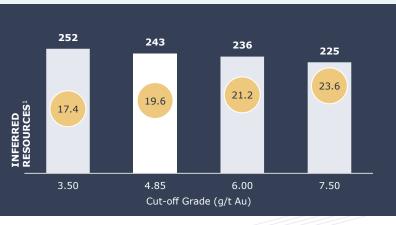
MRE comprises small footprint (380 m length x 85 m width x 140 m depth)¹

MEANINGFUL UPSIDE

~10% of the main Trixie area explored to date

74.2 g/t Au 95.65 g/t Ag

Average length weighted grade of all 4,550 chip samples collected to date²



TRIXIE UG RAMP DEVELOPMENT: 100% COMPLETE



RAMP DEVELOPMENT: ~1,390 M (4,550 ft.)

- ▼ Complete as of September 2023
- Enables bulk extraction at higher tonnage by providing underground access to a modern, mechanized fleet
- Accelerates potential development and exploration activities at lower levels
- Decline size 16x16 ft. (5x5 m), with muckbays excavated every 300 ft. (100 m) potential to use for UG exploration platforms

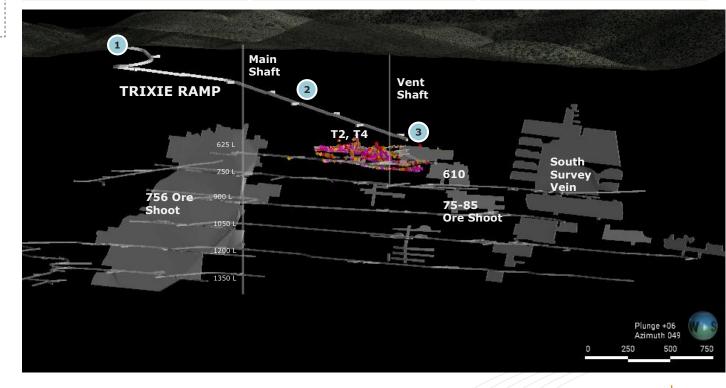






3 Historic Mineralized Zones Open at Depth and Strike

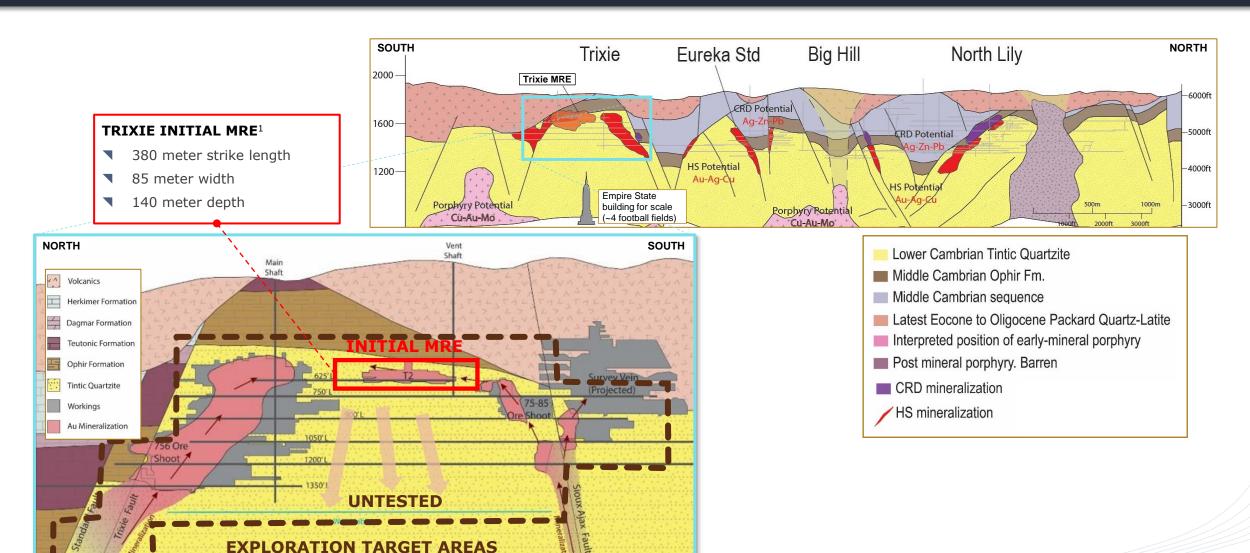
	756 ORE SHOOT	610 ORE SHOOT	SOUTH SURVEY VEIN
•	Developed over 900 ft. (275 m) strike and 1,000 ft. (300	▼ Focus of 2001-2002 mining activity	Mined by Kennecott in the 1980's
•	m) vertical Mined for flux by Kennecott	■ Mined down to the 1,200 ft. level	Extends for 3,400 ft. (1,030 m) south of the main shaft
-	Average grades 6 to 8 g/t Au ¹	■ Average grades 21 g/t Au¹	



TRIXIE EXPLORATION POTENTIAL







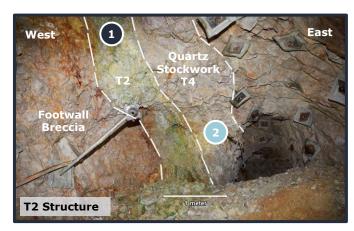
300m

TRIXIE EXPLORATION POTENTIAL

T4 Stockwork

Zone

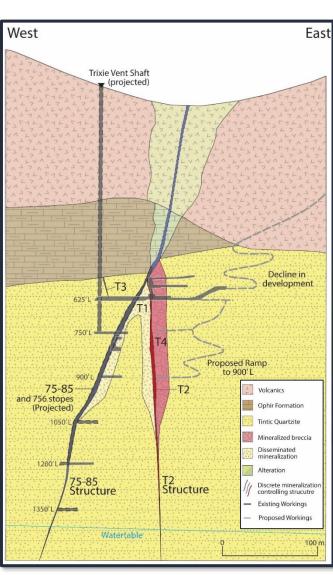






T2 Discrete **Breccia Zone**





Trixie Mineralization¹

- High-sulphidation epithermal mineralization structurally controlled and hosted within the brittle Tintic Quartzite
- Mineralization capped by impermeable shales of the Lower **Ophir Formation**

T2 Discrete Breccia Zone (~0.2-3.0 m wide)



- Native Au and rare Au-Ag-rich +/- Cu- telluride minerals with quartz
- Highest assays to date **16,381 g/t Au** and 2,541 g/t Ag over 0.43 meters in a chip sample

T4 Stockwork Zone (up to 25 m wide) 2



Au-Ag-rich mineralization in host rock quarzite with quartzbarite-sulfosalt stockwork veining

75-85 Structure

- All historic mining focused on west dipping 75-85 structure
- Within the T4 zone of high-density, smaller-scale T2 parallel structures

DRILLING AND CHIP SAMPLING HIGHLIGHTS

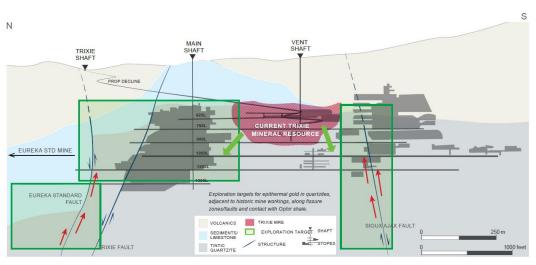


Completed a total of 6,447 m (21,151 ft) of underground exploration and delineation drilling in 2023

Select Chin Sampling

- In 2023, delineation drilling within the current Trixie MRE comprised ~25% and 75% was exploration drilling in adjacent areas, including step outs down dip, down plunge and along strike
- A new MRE for the Trixie deposit expected to be completed once all assay results from the 2023 exploration program have been received and mapping data has been integrated

Trixie Underground Long Section



Select Chip Sampling							
HOLE ID	WIDTH	GRADE	(g/t)				
(CH)	(m)	SILVER	GOLD				
11871	0.73	209.8	1,017.0				
1180¹	0.55	-	4,186.5				
1163¹	0.61	6,699.0	5,197.8				
1114 ¹	1.52	1,224.9	1,553.1				
including	0.82	2,263.4	2,873.1				
1110¹	2.07	316.0	2,800.1				
including	1.22	528.9	4,757.4				
11051	0.40	102.4	1,769.3				
11021	0.37	1,560.0	2,202.9				
1011 ¹	0.55	911.1	2,352.2				
10071	1.01	2,546.1	1,381.6				
1351 ²	2.29	1,146.5	2,311.2				
1256 ²	0.91	78.7	3,901.3				
1326 ²	0.82	1,587.6	3,419.9				

Select Drilling								
HOLE ID	WIDTH	GRADE (g/t)						
HOLL ID	(m)	SILVER	GOLD					
TUG-625-029 ²	3.81	21.48	25.95					
Including	1.52	41.80	43.00					
TUG-625-060 ²	5.33	439.26	12.58					
TUG-625-065 ²	1.22	511.00	264.00					
TUG-625-069 ²	1.22	84.30	65.50					
Including	0.30	246.00	231.00					
TUG-625-087 ³	6.25	404.19	28.72					
TUG-625-086 ³	4.57	96.98	27.26					
TUG-625-037 ⁴	2.44	90.24	53.27					
TUG-625-036 ⁴	3.35	30.89	36.81					
TRXU-DD-23- 003 ⁵	6.86	231.46	62.82					

EAST TINTIC REGIONAL EXPLORATION POTENTIAL







Epithermal High-Grade Au-Ag

Epithermal vein / breccia systems hosted primarily within the basal Tintic Quartzite host rock, found at the Trixie, Eureka Standard and the deeper levels of North Lily mines



Carbonate Replacement ("CRD") Ag-Pb-Zn

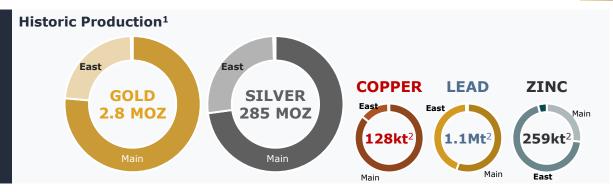
Replacement of reactive limestone more distal from causative porphyry centers on the margins of district

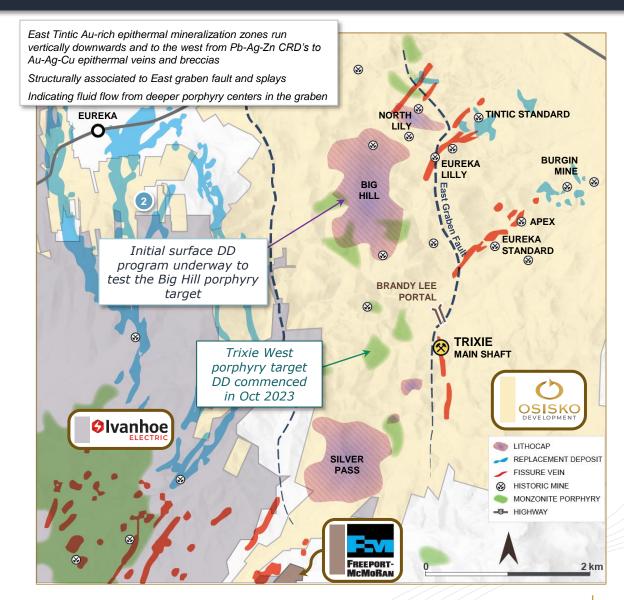
Accounts for most historical production within Tintic, including Burgin, Tintic Standard, and North Lily mines



PORPHYRY Cu-Au-Mo POTENTIAL

Advanced argillic alteration in a NNE trend of remnant lithocaps potentially marks a lineament of porphyry centers at depth. Historic drill testing intersected low grade porphyry mineralization





REGIONAL TARGETS: EPITHERMAL AU-AG



Targets identified based on 3D geological modelling completed to date

Eureka Standard

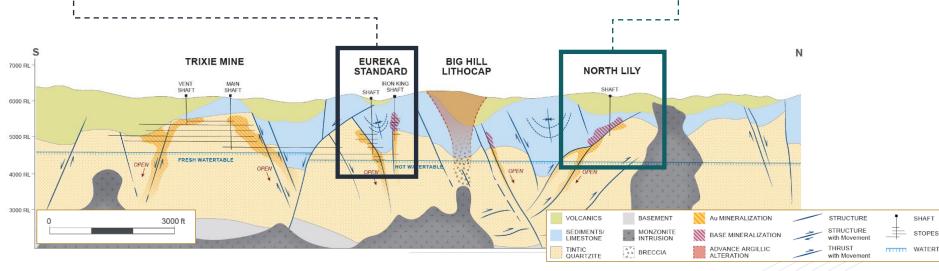
- Epithermal Au-Ag along trend NNE of Trixie
- Mineralization hosted in the brittle Tintic Quartzite with structural control along the East Tintic thrust fault and pebble dikes
- The main high-grade mineralized shoot plunges into the water table at 1,400 ft. (426 m) and remains open at depth
- Approx. historic production 360,000 tons 24 g/t Au and 319 g/t Ag¹
- STATUS: Geologic model complete and drilling is proposed; Potential to rehab workings from Trixie to Eureka Standard

North Lily

- North Lily operated between 1927 and 1940s
- All of North Lily produced 375,000 tons, at an average grade of 0.4 oz/t Au (13.728 g/t) and 9.23 oz/t Ag (316.621 g/t) (Kildale (1957))
 - Endline Dike fissure was 1.326 oz/t (45.47 g/t) gold, 4.75 oz/t (155.56 g/t) silver, and 1.37% copper¹
- Zones of characteristic high-sulfidation mineral associations NE trending dyke swarm emanating from Big Hill lithocap / porphyry
- STATUS: Data compilation and drillholes proposed along NE strike of Endline and structures parallel to Endline







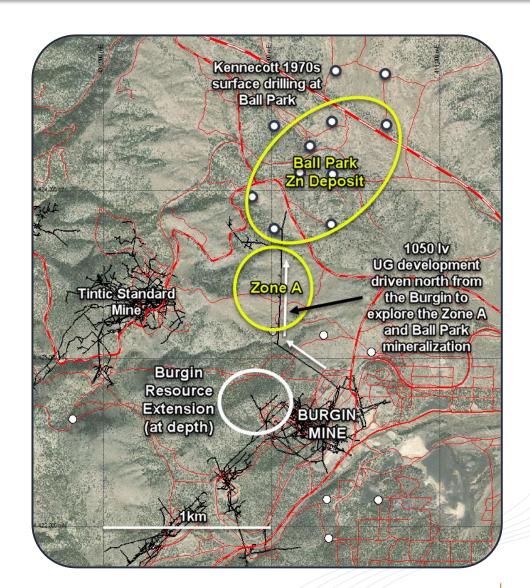
REGIONAL TARGETS: CARBONATE REPLACEMENT AG-PB-ZN



Historic Burgin Mine

- Mined by Kennecott until 1978, with the "Burgin Extension" discovered from drilling undertaken in 1980
- The Burgin mine hosts a significant Pb-Zn-Ag-Au replacement style deposit
- Ball Park target (Zn-Pb) is located 5000 ft. (1.5 km) north of the Burgin mine (Kennecott surface drilling in 1970s intersected significant Zn-Pb mineralization at Ball Park)
 - During the 1970's Kennecott developed the 1050 level north of Burgin to explore this area, with underground drilling intersecting significant base and precious metals mineralization associated with the Tintic Thrust, in a similar structural setting to the Burgin deposit
- **▼** STATUS: Early stages of data compilation, core relogging. Significant potential exists for addition CRD mineralization throughout the property

Historic Burgin Extension Resource – 2011 NI 43-101 PEA ¹										
Class	Cut-off (oz AgEq/t)	Tons (000's)	oz Ag/t	koz Ag	oz Au/t	koz Au	% Pb	klbs Pb	% Zn	klbs Zn
Indicated	3.81	920	7.28	6,694	0.025	23	9.27	170,461	3.45	63,497
Inferred	1.52	1,357	8.71	11,823	0.013	17	14.43	391,589	5.19	140,846



REGIONAL TARGETS: PORPHYRY CU-AU-MO POTENTIAL



Big Hill Porphyry Target

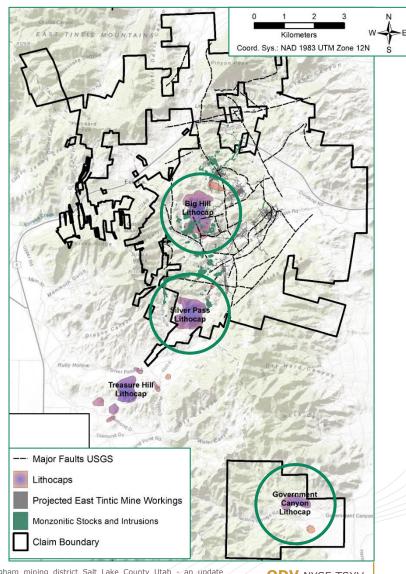
- **▼** Located 65 km south of Bingham Canyon Mine operated by Rio Tinto since 1906
 - To date produced over ~25 MT copper, ~1.5 MT molly, ~43 Moz gold, and ~425 Moz silver¹
- Indicator clay assemblages and elevated Mo and/or Cu geochem anomalies at Big Hill, Silver Pass and Government Canyon
- Limited drilling from previous operators (8 holes) intersected low grade porphyry mineralization; Multiple lithocaps mapped in the area
- Abundant stocks and intrusions throughout the district overlap the timing of mineralization
- Geochemical data indicating favorable alteration and metal assemblages
- Evidence for pre- and post-mineral normal faulting which could reduce local depth from surface to the porphyry level
- STATUS: Initial surface diamond drilling program underway

Biotite rim retrograde to skarnified wall rock clast in intrusion breccia





B-type quartz veinlet with molybdenite along margins cutting intermineral monzonite porphyry, Big Hill





SAN ANTONIO PROJECT

Sonora, Mexico 100% Ownership



SAN ANTONIO PROJECT: ASSET SNAPSHOT





Asset Highlights

- Located 160 km from airport and towns of Hermosillo and Obregon in mining-friendly Sonora
- Constructed a heap leach pad and a carbon in column plant at the end of 2021 to process stockpiled mineralized material
 - 1.1 Mt stockpile grading 0.58 g/t Au placed on the leach pad
 - 13,591 ounces sold as at Sep 30, 2023 (**complete**)
- Gold mineralization identified over 10 km strike
- Mine infrastructure and water on site
- 27,000 meters drilled in 2021
- Awaiting next steps from the Mexican government on permitting

Mineral Resources¹

MATERIAL		INDICATED			INFERRED	
MATERIAL	Tonnes	Grade	Contained	Tonnes	Grade	Contained
	(Mt)	(g/t Au)	(koz Au)	(Mt)	(g/t Au)	(koz Au)
Oxide	2.7	0.89	77	4.6	0.74	111
Transitional	1.8	1.02	59	2.1	0.9	61
Sulfide	10.4	1.31	441	9.8	1.18	371
TOTAL	14.9	1.20	577	16.5	1.02	543



APPENDIX

WORLD-CLASS LEADERSHIP



SEAN ROOSEN, CEO

- Founding member of Osisko Mining Corporation (2003-2014)
- Responsible for developing the strategic plan for the discovery, financing and development of the Canadian Malartic Mine
- Led the efforts for the maximization of shareholders' value in the sale of Osisko Mining Corporation, that resulted in the creation of Osisko Gold Royalties
- Former Chairman of Osisko Mining Corp. partner in the development of Windfall

CHRIS LODDER, PRESIDENT

- 30 years' experience working on and managing Greenfields exploration, Brownfields exploration, and mine development
- Led teams responsible for discoveries of 34+ Moz of gold
- President and CEO of Barkerville Gold Mines until its acquisition by Osisko Gold Royalties in 2019

ÉRIC TREMBLAY, INTERIM COO, DIRECTOR

- More than 25 years' of mine building and mine operations experience, mostly at underground mining operations, culminating in his current position as Chief Operating Officer of Dalradian Resources Inc.
- Previously General Manager at Canada's largest gold mine, Canadian Malartic. Previously, General Manager at IAMGOLD's Westwood Project, where he participated in closure of the Doyon Mine and construction of the Westwood Project
- Mr. Tremblay graduated from Laval University with a B.Sc. in mining engineering and mineral processing

ALEXANDER DANN, CFO, CPA, CA

- 25 years of experience leading finance operations and strategic planning for companies in the mining and manufacturing sectors
- He obtained his Chartered Accountant designation in 1995, and holds a Bachelor degree in Business Administration from L'Universite Laval in Quebec

FRANÇOIS VÉZINA, Senior VP Project development, TECHNICAL services and environment, inq., P.ENG., MBA

- 20 years' experience in OP and UG operations in Canada, Mexico and Finland
- Responsible for overseeing the completion of the feasibility studies of LaRonde II, Pinos Altos and Kittilä
- Participated in the construction and commissioning of Pinos Altos and Kittilä and the construction of the Canadian Malartic Mine

MAGGIE LAYMAN, VP EXPLORATION, P.GEO

- 18 years of experience in greenfield and brownfield exploration
- Previously Barkerville's Exploration Manager

LAURENCE FARMER, GENERAL COUNSEL & VP STRATEGIC DEVELOPMENT

- Over 10 years of experience in investment banking & corporate law with RBC Capital Markets and Norton Rose Fulbright LLP
- Previously Senior Counsel of Osisko Gold Royalties

PHILIP RABENOK, DIRECTOR, INVESTOR RELATIONS

- Over 10 years of transactional, capital markets, and corporate experience in the resources sector, most recently in an Investor Relations role at IAMGOLD Corp.
- Previously worked in mining investment banking and equity research at Société Générale and Scotiabank

BOARD OF DIRECTORS

- Sean Roosen (Executive Chair)
- Charles Page
- Michèle McCarthy
- Duncan Middlemiss
- Éric Tremblay
- Marina Katusa
- David Danziger

BEST IN CLASS ESG



Committed to responsible mining practices, strong relationships, and mutual support with all partners

DEVELOPMEN

ENVIRONMENT

- Osisko Development constructed two water treatment plants to treat contact water and effluent
- Reclamation underway for the Mosquito Creek legacy tailings disposal
- Collaboration agreement sign with BC Government for the reclamation of the Jack of Club lake tailings disposal area
- Open and transparent dialogue with the Ministry of Energy, Mines and Low Carbon Innovation, and Ministry of Environment and Climate Change Strategy

INDIGENOUS NATIONS

- Positive relationship with Lhtako Dené Nation since 2015. Agreements include engagement protocol (signed in 2016), relationship agreements (2016) and life of project agreement (2020)
- Participation agreement sign with the Williams Lake First Nation in July 2022
- Positive relationship with Xatsull First Nation Indian Band since 2016

PERMITTING

- Positive permitting climate in central BC given dearth of high-quality jobs from logging industry slowdown
- Completed the Application Review process in January 2022
- Environmental Assessment Certificate granted in October 2023
- Anticipating receipt of permits by Q2 2024

COMMUNITY



- Actively involved in the Wells community
- Provided funding to local organizations in support of various initiatives, including: Wells Community Foundation; Island Mountain Arts; Wells and Area Community Association and others
- Involved in the various activities in the Barkerville Historic Town (initiated the collection of funds in support of the development of an underground mining exhibit)

CARIBOO MINERAL RESERVES & RESOURCES

(Measured and Indicated Resources are exclusive of Reserves)



MINERAL RESOURCES	М	EASURED		INDICATED		MEASURED & INDICATED		INFERRED				
Deposit	Tonnes (000's)	Grade (g/t)	Ounces (000's)	Tonnes (000's)	Grade (g/t)	Ounces (000's)	Tonnes (000's)	Grade (g/t)	Ounces (000's)	Tonnes (000's)	Grade (g/t)	Ounces (000's)
Bonanza Ledge	47	5.06	8	32	4.02	4	79	4.64	12	-	-	-
BC Vein	-	_	_	1,030	3.12	103	1,030	3.12	103	461	3.55	53
KL	_	-	_	386	3.18	39	386	3.18	39	1,918	2.75	169
Lowhee	_	-	_	1,368	3.18	140	1,368	3.18	140	445	3.34	48
Mosquito	-	-	-	1,288	3.68	152	1,288	3.68	152	1,290	3.55	147
Shaft	_	-	_	4,781	3.39	523	4,781	3.39	523	6,468	3.84	800
Valley	_	-	_	2,104	3.14	213	2,104	3.14	213	2,119	3.30	225
Cow	_	_	_	3,644	3.31	388	3,644	3.31	388	2,769	3.03	270
TOTAL RESOURCES	47	5.06	8	14,635	3.32	1,564	14,682	3.33	1,571	15,470	3.44	1,712

MINERAL RESERVES	PROBABLE RESERVES				
Deposit	Tonnes (000's)	Grade (g/t)	Ounces (000's)		
Cow	4,127	3.41	453		
Valley	3,445	3.70	410		
Shaft	7,962	3.87	990		
Mosquito	603	4.93	95		
Lowhee	567	4.56	83		
TOTAL RESERVES	16,703	3.78	2,031		

MINERAL RESERVES

- Totals may not add up due to roundin
- Mineral Reserves have been estimated in accordance with CIM Definition Standards for Mineral Resources and Mineral Reserves (2014), which are incorporated by reference in NI 43-101.
- Mineral Reserves used the following assumptions: US\$1,700/oz gold price, USD:CAD exchange rate of 1.27, and variable cut-off value from 1.70 g/t to 4.00 g/t Au.
- 4. Mineral Reserves include both internal and external dilution along with mining recovery. The external dilution is estimated to be 8%. The average mining recovery factor was set at 93.6% to account for ore left in each block in the margins of the deposit.

MINERAL RESOURCE

- 1. Mineral Resources are exclusive of Mineral Reserves. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.
- The Mineral Resource Estimate conforms to the 2014 CIM Definition Standards on Mineral Resources and Reserves and follows the 2019 CIM Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines.
 A total of 481 yein zones were modelled for the Cow Mountain (Cow and Valley), Island Mountain (Shaft and Mosquito), Barkerville Mountain (BC Vein, KL, and Lowhee) deposits and
- A total of 451 Vell 2016s were modeled not the Cow Mountain (Cow and Valley), Island wolldown (Shaft and Mosquito), Barkeville Mountain (EC Vell, KL, and Lownee) deposits and one gold zone for Bonanza Ledge. A minimum true thickness of 2.0 m was applied, using the Au gold grade of the adjacent material when assayed or a value of zero when not assayed.
 The estimate is reported for a potential underground scenario at a cut-off grade of 2.0 g/t Au, except for Bonanza Ledge at a cut-off grade of 3.5 g/t Au. The cut-off grade for the Cow, Valley, Shaft, Mosquito, BC Vein, KL, and Lowhee deposits was calculated using a gold price of US\$1,700/oz; USD:CAD exchange rate of 1.27; global mining cost of \$54.32/t; processing and transport cost of \$22.29/t; G&A plus Environmental cost of \$15.31/t; and sustaining CapEx cost of \$31.19/t. The cut-off grade for the Bonanza Ledge deposit was
- calculated using a gold price of US\$1,700/oz; USD:CAD exchange rate of 1.27; global mining cost of \$79.13/t; processing and transport cost of \$65.00/t; and G&A plus Environmental cost of \$51.65/t. The cut-off grades should be re-evaluated in light of future prevailing market conditions (metal prices, exchange rate, mining cost, etc.). Bulk density varies from 2.69 g/cm³ to 3.20 g/cm³.
- 6. A four-step capping procedure was applied to composited data. Restricted search ellipsoids ranged from 7 to 50 g/t Au at four different distances ranging from 25 m to 250 m. High-grades at Bonanza Ledge were capped at 70 g/t Au on 2.0 m composited data.
- The gold Mineral Resources for the Cow, Valley, Shaft, Mosquito, BC Vein, KL, and Lowhee vein zones were estimated using Datamine Studio™ RM 1.9 software using hard boundaries on composited assays. The silver Mineral Resources and the dilution halo gold mineralization were estimated using Datamine Studio™ RM Pro 1.11. The OK method was used. Mineral Resources for Bonanza Ledge were estimated using GEOVIA GEMSTM 6.7 software using hard boundaries on composited assays. The OK method was used to interpolate a block model.
- 8. Results are presented in situ. Calculations used metric units (metres, tonnes, g/t). Any discrepancies in the totals are due to rounding effects.

SAN ANTONIO MINERAL RESOURCES



DEDOCIT	CATECORY	TONNES	GRADE	: (g/t)	CONTAINED METAL		
DEPOSIT	CATEGORY	(Mt)	SILVER	GOLD	SILVER (Moz)	GOLD (koz)	
CALIFORNIA	Indicated	3.9	2.5	1.22	0.31	153	
	Inferred	1.6	3.3	1.10	0.17	58	
GOLFO DE ORO	Indicated	5.7	2.5	1.44	0.46	262	
	Inferred	6.4	2.5	1.24	0.52	254	
HIGH LIFE	Indicated	_	-	_	_	-	
	Inferred	0.8	4.9	0.83	0.13	22	
SAPUCHI	Indicated	5.4	3.5	0.93	0.61	162	
	Inferred	7.6	3.8	0.85	0.94	208	
CALVARIO	Indicated	-	-	_	-	-	
	Inferred	0.1	0.0	0.53	-	2	
TOTAL	Indicated	14.9	2.9	1.20	1.37	576	
	Inferred	16.6	3.3	1.02	1.76	544	

TRIXIE MINERAL RESOURCES ESTIMATE



DOMAIN	CATEGORY	TONNES	GRADE (AU G/T)	CONTAINED GOLD (OZ)	GRADE (AG G/T)	CONTAINED SILVER (OZ)
	Measured	-	-	_	-	-
T1	Indicated	34,470	16.39	18,159	30.55	33,856
11	M+I	34,470	16.39	18,159	30.55	33,856
	Inferred	134,665	16.59	71,832	38.51	166,716
	Measured	10,938	190.61	67,029	195.53	68,757
T2	Indicated	6,705	138.30	29,815	107.95	23,272
12	M+I	17,643	170.73	96,844	162.24	92,029
	Inferred	25,181	101.37	82,070	146.32	118,457
	Measured	-	-	-	-	-
Т4	Indicated	178,825	16.64	95,667	43.65	250,941
14	M+I	178,825	16.64	95,667	43.65	250,941
	Inferred	128,038	9.10	37,460	21.64	89,063
	Measured	-	-	-	-	-
75-85	Indicated	4,870	14.10	2,207	51.77	8,106
75-65	M+I	4,870	14.10	2,207	51.77	8,106
	Inferred	96,962	16.58	51,691	49.89	155,530
	Measured	10,938	190.61	67,029	195.53	68,757
TOTAL	Indicated	224,870	20.17	145,849	43.73	316,175
TOTAL	M+I	235,808	28.08	212,878	50.77	384,932
	Inferred	384,845	19.64	243,053	42.82	529,766

NOTES

- 1. Effective date of the Trixie MRE is January 10, 2023.
- Each of Mr. William Lewis P.Geo, of Micon International Limited and Alan S J San Martin, AusIMM(CP), of Micon International Limited (i)
 has reviewed and validated the Trixie MRE, (ii) is considered to be independent of the Company for purposes of Section 1.5 of NI 43101, and (iii) is a "qualified person" for purposes of NI 43-101.
- 3. The Trixie MRE is comprised of five zones within the greater Trixie area: T1, T2, T3, T4 and 75-85. No blocks in the T3 meet the cut off grade used for the Trixie MRE.
- 4. The Trixie MRE disclosed in this presentation were estimated using the CIM standards on mineral resources and reserves definitions, and guidelines prepared by the CIM standing committee on reserve definitions and adopted by the CIM council.
- 5. Mineral Resources are reported when they are within potentially mineable shapes derived from a stope optimizer algorithm, assuming an underground longhole stoping mining method with stopes of 6.1 m x 6.1 m x minimum 1.5 m dimensions.
- Mineral resources are not mineral reserves and do not have demonstrated economic viability.
- 7. Geologic modelling was completed by Osisko Development senior production geologist Courtney Kurtz, P.G. of Utah, USA using Leapfrog

Geo software. The Trixie MRE was completed by Osisko Development Chief Resource Geologist, Daniel Downton, P.Geo. using Datamine Studio RM Pro 1.12. The Trixie MRE was reviewed and verified by William Lewis and Alan San Martin of Micon International Ltd.

- 3. The estimate is reported for an underground mining scenario and with USD assumptions. The cut-off grade of 4.85 g/t Au was calculated using a gold price of US\$1,750 per ounce, a CAD:USD exchange rate of 1.30; total mining, processing and G&A costs of US\$226.62 per imperial ton a combined royalty of 4.5% and an average metallurgical recovery of 95%.
- Average bulk density values in the mineralized domains were assigned to the T1 (2.616 T/m3), T2 (2.955 T/m3), T3 (2.638 T/m3), T4 (2.621 T/m3), and 75-85 (2.617 T/m3) domains.
- 10. Inverse Distance Squared interpolation method was used with a parent block size of 1.2 m x 1.2 m x 1.8 m.
- 11. The results of the Trixie MRE are presented in-situ. Calculations used metric units (metres, tonnes, g/t). The number of tonnes is rounded to the nearest thousand. Any discrepancies in the totals are due to rounding effects.
- 12. Neither the Company nor Micon International Limited is aware of any known environmental, permitting, legal, title-related, taxation, socio-political, marketing or other relevant issue that could materially affect the mineral resource estimate other than disclosed herein.

NOTES





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