

ASX ANNOUNCEMENT

Pickle Crow Gold Project, Canada

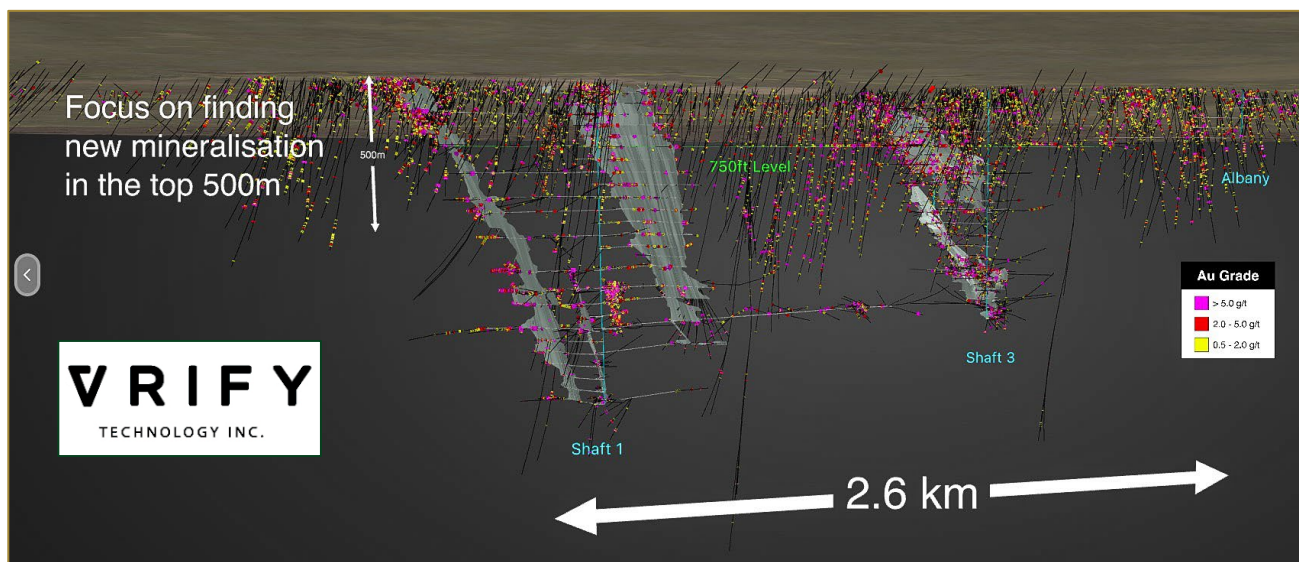
In-depth 3D model shows immense scale and near-surface growth potential

New cutting-edge analysis of the 2.8Moz project shows the size, favourable geometry and substantial open pit scenario at this rapidly growing, tier-1 deposit

KEY POINTS

- AuTECO has completed a unique 3D interactive model of its Pickle Crow deposit
- The interactive model, which sits within a new corporate presentation, provides an extremely detailed insight into all aspects of the deposit, demonstrating its sheer scale in unprecedented detail
- The presentation also highlights the substantial amount of mineralisation which sits close to the surface but remains outside the existing Resource
- This provides more evidence of the potential to continue growing the 2.8Moz Resource (at 7.2g/t) and the scope for a significant open cut operation

The presentation featuring the interactive 3D data is available on the AuTECO website or by clicking on link: <https://vrify.com/decks/13521>



Screen shot of the 3D drill data contained within the May 2023 Vrify corporate presentation

For and on behalf of the Board.

Mr Ray Shorrocks

Chairman

Auteco Minerals Ltd

Phone: +61 8 9220 9030

HIGH-GRADE CANADIAN UNDEVELOPED GOLD RESOURCE OF 2.8MOZ AT 7.2G/T



ASX:AUT

- ▶ One of the highest grade +2Moz Inferred Resources globally in a Tier-One mining region
- ▶ Strong growth trajectory with exceptional exploration upside
- ▶ Historic mine site, nearby roads with ready access to hydropower
- ▶ Company led by former Bellevue Gold and Northern Star personnel

VRIFY
TECHNOLOGY INC.

THIS PRESENTATION ID POWERED BY VRIFY.

TO ACCESS THE 3D INTERACTIVE PRESENTATION CLICK HERE:

<https://vrify.com/decks/13521>

CORPORATE UPDATE

June 2023

DISCLAIMER & CAUTIONARY STATEMENTS



DISCLAIMER

This presentation has been prepared by Auteco Minerals Limited (the Company) based on information from its own and third party sources and is not a disclosure document. No party other than the Company has authorised or caused the issue, lodgement, submission, dispatch or provision of this presentation, or takes any responsibility for, or makes or purports to make any statements, representations or undertakings in this presentation. Except for any liability that cannot be excluded by law, the Company and its related bodies corporate, directors, employees, servants, advisers and agents (Affiliates) disclaim and accept no responsibility or liability for any expenses, losses, damages or costs incurred by you relating in any way to this presentation including, without limitation, the information contained in or provided in connection with it, any errors or omissions from it however caused, lack of accuracy, completeness, currency or reliability or you or any other person placing any reliance on this presentation, its accuracy, completeness, currency or reliability. This presentation is not a prospectus, disclosure document or other offering document under Australian law or under any other law. It is provided for information purposes and is not an invitation nor offer of shares or recommendation for subscription, purchase or sale in any jurisdiction. This presentation does not purport to contain all the information that a prospective investor may require in connection with any potential investment in the Company. Each recipient must make its own independent assessment of the Company before acquiring any shares in the Company (Shares). The Company has made reference to historic drilling and exploration results from a variety of exploration companies over the past 60 years that had previously explored the Project.

References to previous ASX announcements should be read in conjunction with this release. The Company confirms that it is not aware of any new information or data that materially affects the information included in this presentation.

FORWARD LOOKING INFORMATION

This document contains forward looking statements concerning the Company. Forward-looking statements are not statements of historical fact, and actual events and results may differ materially from those described in the forward-looking statements as a result of a variety of risks, uncertainties and other factors. Forward-looking statements are inherently subject to business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause the Company's actual results to differ materially from those expressed or implied in any forward-looking information provided by the Company, or on behalf of the Company. Such factors include, among other things, risks relating to additional funding requirements, metal prices, exploration, development and operating risks, competition, production risks, regulatory restrictions, including environmental regulation and liability and potential title disputes. Forward looking statements in this document are based on the Company's beliefs, opinions and estimates of the Company as of the dates the forward-looking statements are made, and no obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments. Although management believes that the assumptions made by the Company and the expectations represented by such information are reasonable, there can be no assurance that the forward-looking information will prove to be accurate. Forward-looking information involves known and unknown risks, uncertainties, and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any anticipated future results, performance or achievements expressed or implied by such forward-looking information. Such factors include, among others, the actual market price of commodities, the actual results of future exploration, changes in project parameters as plans continue to be evaluated, as well as those factors disclosed in the Company's publicly filed documents. Readers should not place undue reliance on forward-looking information. The Company does not undertake to update any forward-looking information, except in accordance with applicable securities laws. No representation, warranty or undertaking, express or implied, is given or made by the Company that the occurrence of the events expressed or implied in any forward-looking statements in this presentation will actually occur.

NO NEW INFORMATION OR DATA

This Presentation contains references to Mineral Resource estimates, all of which have been extracted from the Company's ASX announcement titled "High-Grade Inferred Gold Resource Grows to 2.8Moz at 7.2g/t" and dated 4 May 2023. All future references in this presentation that relate to the Mineral Resource Estimate should be read in conjunction with the aforementioned ASX release. The Company confirms that it is not aware of any new information or data that materially affects the information included in that ASX announcement and that all material assumptions and technical parameters underpinning the Mineral Resource Estimate (Inferred Resource – 11.9 Mt @ 7.2 g/t gold for 2.8M ounces of gold) in that announcement continue to apply and have not materially modified. A breakdown of the Resource is set out in this Presentation.

This Presentation also contains references to certain Exploration Results that were first reported in accordance with ASX Listing Rule 5.7 in the Company's announcements of 28/01/2020, 26/03/2020, 01/09/2020, 11/11/2020, 19/01/2021, 7/04/2021, 16/06/2021, 15/07/2021, 2/08/2021, 5/10/2021, 2/12/2021, 18/1/2022, 3/5/2022, 23/6/2022, 22/11/2022, 24/1/2023 and 4/5/2023. Auteco confirms that it is not aware of any new information or data that materially affects the information included in the original 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.

THE WORLD-CLASS PICKLE CROW GOLD PROJECT

Pickle Crow has one of the highest grade 2.8Moz gold Resources globally in addition to significant district-scale discovery potential



LOCATION

- ▶ Operating in a stable Tier 1 mining jurisdiction, Ontario Canada
- ▶ Year-round access, support infrastructure
- ▶ In a prolific mineral belt with <40Moz gold endowment



THE ASSET

- ▶ Long history of producing high-grade gold
- ▶ Historic production of 1.5Moz at 16.1g/t gold (1935 to 1966)
- ▶ Processing plant, historic underground development



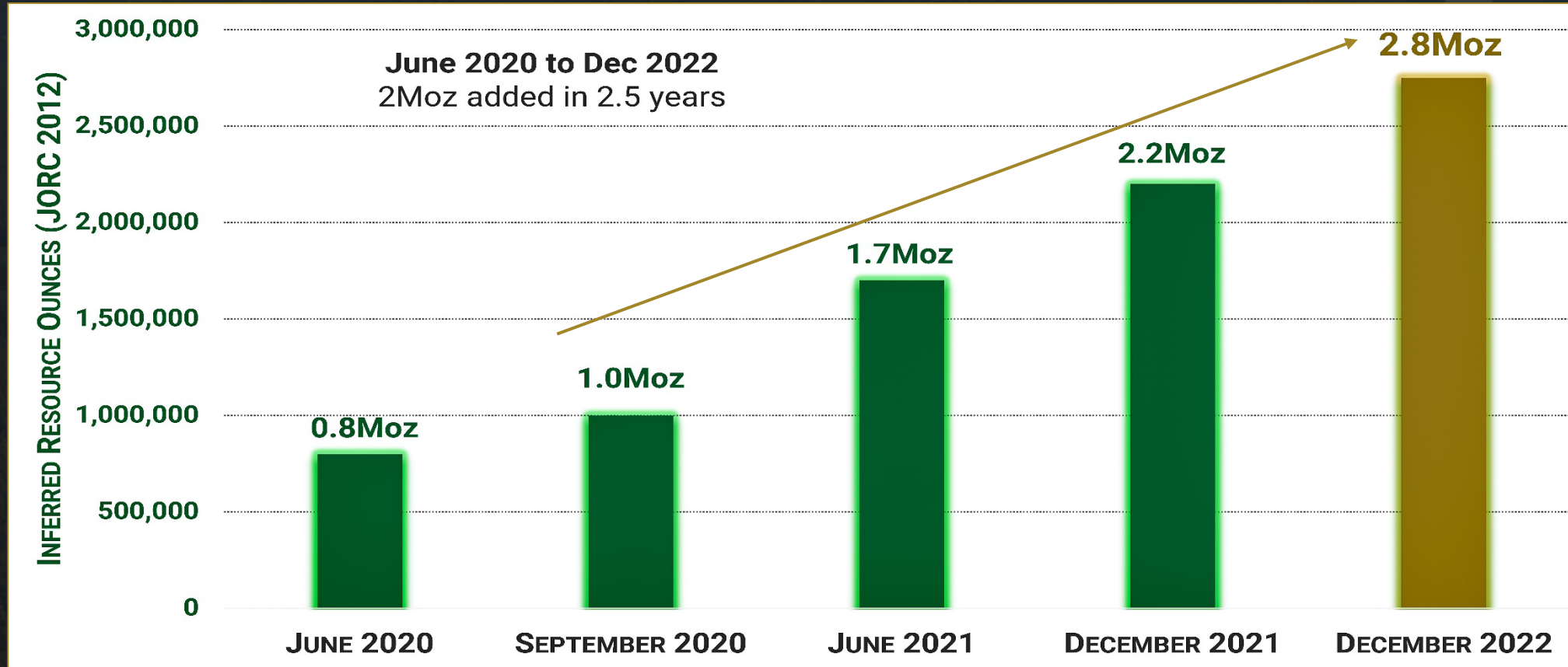
GROWTH

- ▶ Clear growth strategy from a team with a proven track record
- ▶ Inferred Resource of 2.8Moz at 7.2g/t gold
- ▶ Outstanding camp-scale targets on 500km² of exploration claims



2.8 MILLION OUNCES AND GROWING

Strong and Consistent Resource Growth

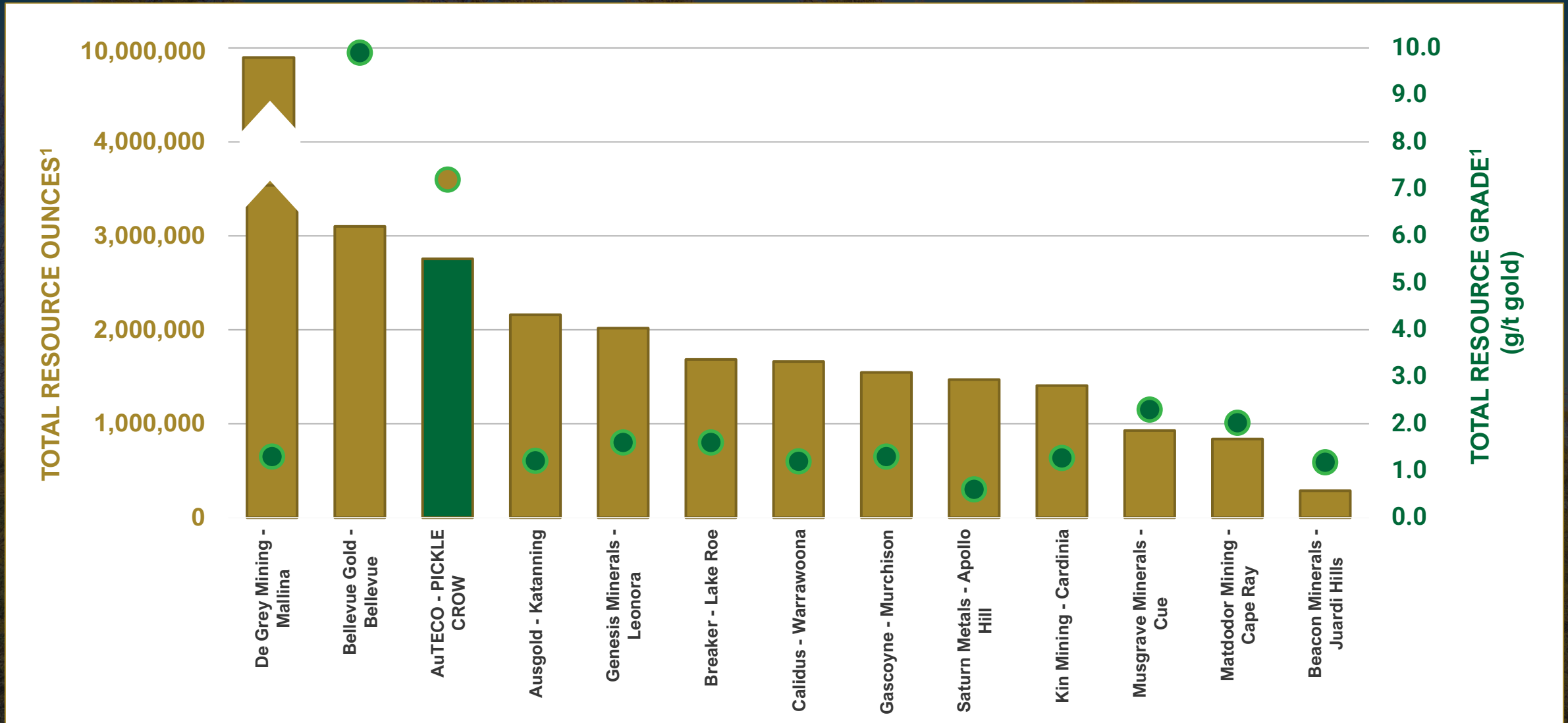


Inferred Resource at 31 December 2022 ¹	Mineralisation Domain	Lower Cut-off	Tonnes (Mt)	Gold Grade (g/t)	Gold (Million oz)	Variance to Dec 2021 Resource
	Quartz Lodes	3.0g/t	6.7	9.8	2.1	+0.19Moz
Bulk (BIF, Porphyry)	2.0g/t	4.2	3.8	0.5	+0.21Moz	
Satellite (East Pat, Cohen Mac)	2.0g/t	1.0	4.1	0.1	+0.13Moz	
TOTAL		11.9	7.2	2.8	+0.53Moz (+24%)	

1. See ASX Release dated 4th May 2023 for details of the Inferred Resource estimate

A STANDOUT PROJECT

A Rare Combination of both SCALE and GRADE

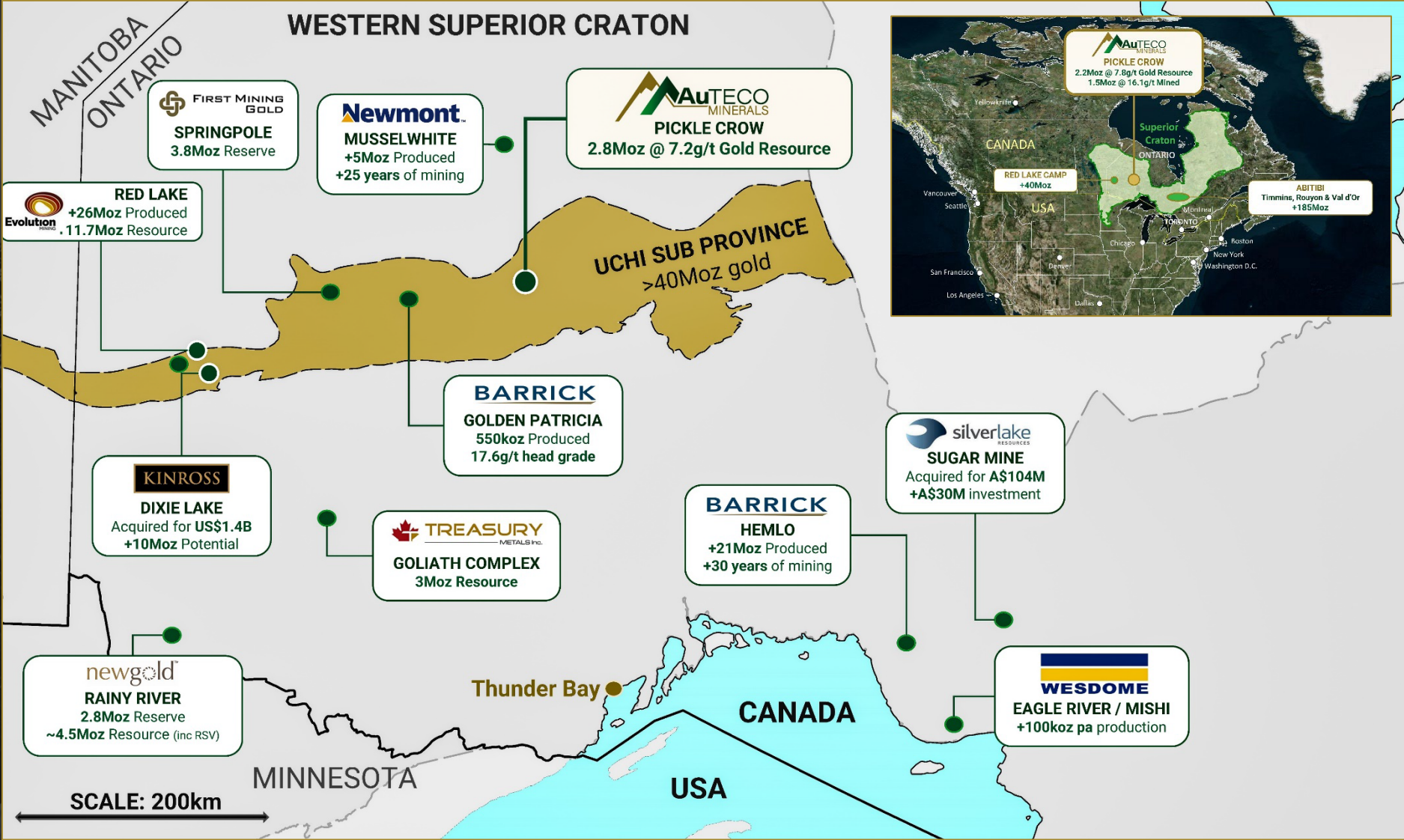


1. Refer to Appendix 1 for details of Resources. Resources are inclusive of Reserves.

ONE OF THE BEST ADDRESSES GLOBALLY



A True Tier One Jurisdiction With World-Class Gold Deposits



AN AREA OF SIGNIFICANT CORPORATE ACTIVITY

>US\$2 Billion worth of transactions since 2019 in the same belt of rocks that hosts Pickle Crow

<p>LOCAL TRANSACTIONS Near Pickle Crow¹</p> <p>(Uchi Belt)</p>	ASSET	Dixie	Red Lake	Phoenix
	STAGE	Exploration, No Resource	Production	Feasibility
	SELLER / TARGET			
	ACQUIRER			
	TRANSACTION	Takeover	Asset Sale	Company Acquisition
	DEAL VALUE	US\$1.4 Billion (A\$2B ^{2,3})	To US\$475M (A\$680M ^{2,3})	US\$254M (A\$363M ^{2,3})

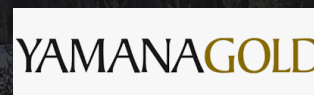
Other Notable Recent Canadian Transactions¹

PRETIUM (Mar 2022)



US\$2.8B (A\$4B^{2,3})

YAMANA GOLD (Mar 2023)



Joint bid between Agnico & Pan American Silver
US\$4.8B (A\$6.9B^{2,3})

WINDFALL 50% (May 2023)



US\$445M (A\$635M^{2,3})

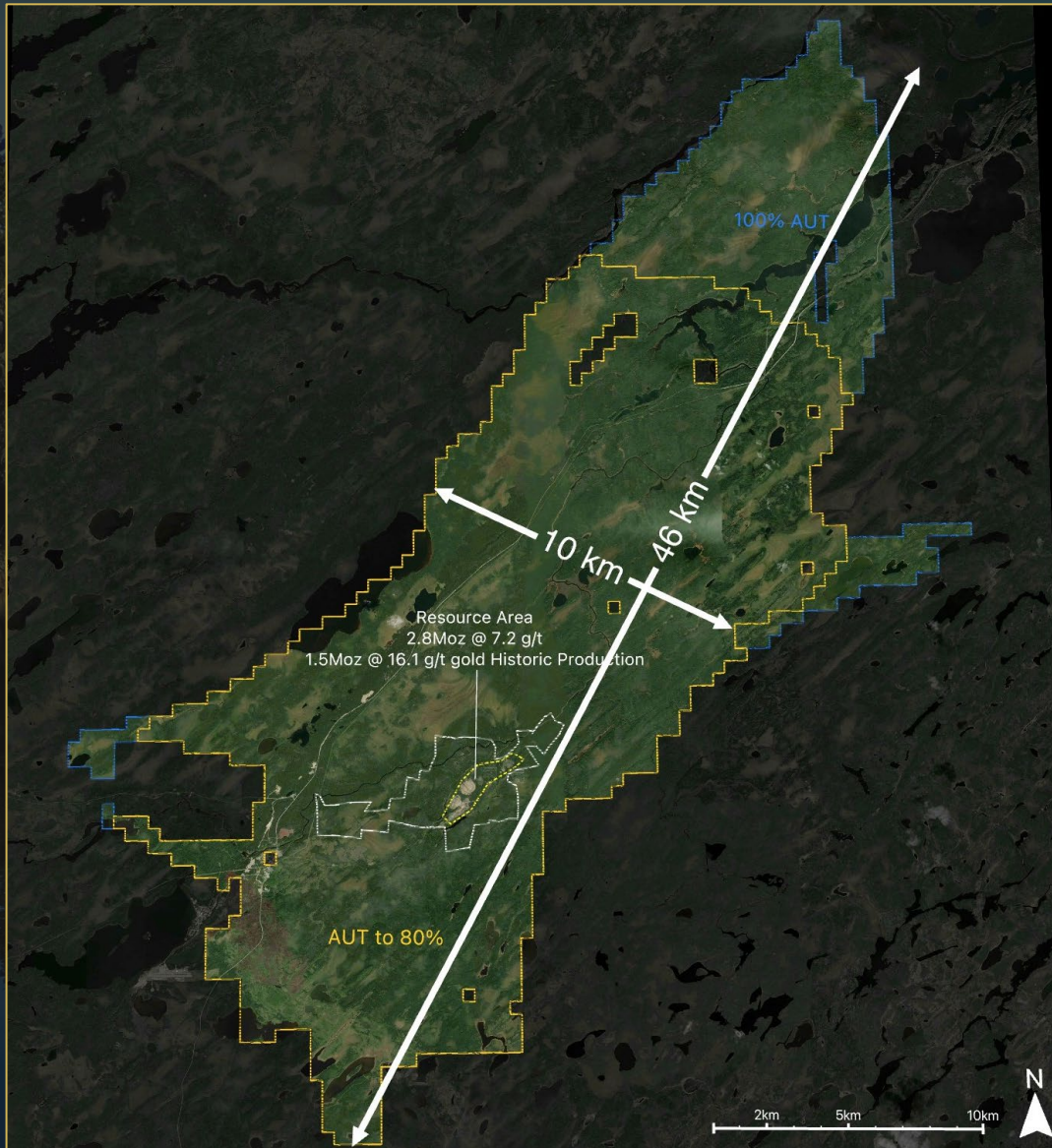
SABINA BACK RIVER (Feb 2023)



US\$815M (A\$1,165M^{2,3})

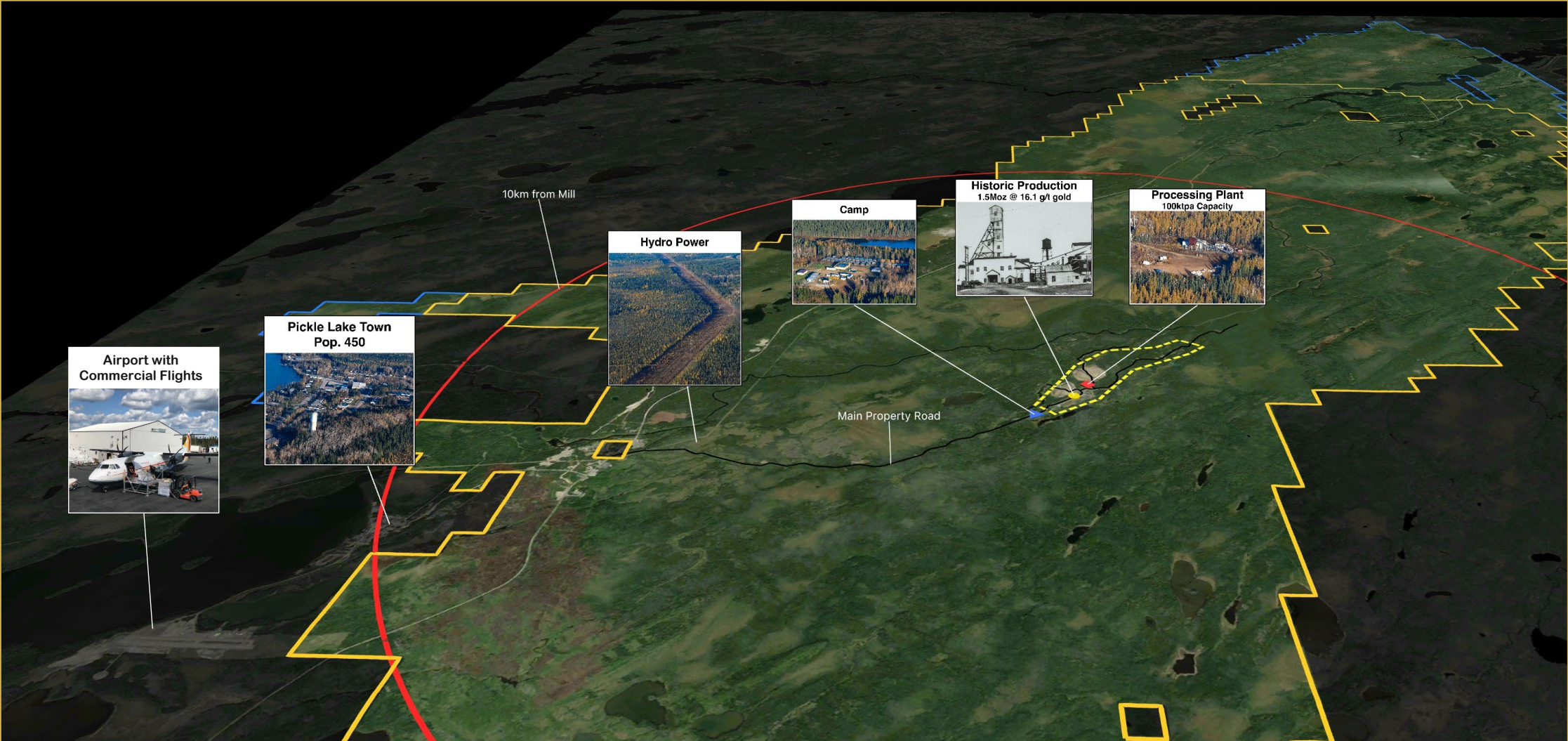
1. Refer to Appendix 2 for details of transactions
2. AUD:USD exchange rate of 0.7
3. CAD:USD exchange rate of 0.74

DOMINANT LAND HOLDING IN THE PICKLE LAKE AREA



Camp-scale 500km² holding around one of Canada's highest-grade historic gold mines that has seen limited modern exploration

EXCEPTIONAL INFRASTRUCTURE TO SUPPORT DEVELOPMENT



TO EXPLORE INTERACTIVE 3D SLIDE CLICK:
<https://vrify.com/decks/13521?slide=261365>

BOARD AND MANAGEMENT



A Leadership Team with management DNA and success in the resources sector



Ray Shorrocks
NON-EXECUTIVE CHAIRMAN

Previous Chairman of **Bellevue Gold**, Non-Executive Chairman of **Alicanto Minerals**

30 years' experience working in the Resources investment banking industry, highly conversant and experienced in all areas of mergers and acquisitions and equity capital markets.

Significant track record of transactions in the metals and mining sectors



Steve Parsons
NON-EXECUTIVE DIRECTOR

Founder and Previous Managing Director of **Bellevue Gold** (ASX 200) and **Gryphon Minerals** (ASX 200)

Experienced geologist with a proven track record of mineral discoveries, corporate growth, international investor relations and creating shareholder wealth.



Michael Naylor
NON-EXECUTIVE DIRECTOR

Non-Executive Director of **Bellevue Gold** and Non-Executive Director of **Cygnus Metals**

26 years' experience in corporate advisory and public company management since commencing his career and qualifying as a chartered accountant

Involved in the financial management of mineral and resources focused public companies serving on the board and in the executive management teams.



Kevin Tomlinson
NON-EXECUTIVE DIRECTOR

Non-Executive Independent Chairman of **Bellevue Gold** and former director of **Cardinal Resources** and **Centamin PLC**

Highly experienced mining executive with over 35 years' experience across geology and investment banking in multiple jurisdictions including Canada, Australia, Africa and the UK.

Highly experienced in corporate M&A and equity raising.
Previously Managing Director of Investment Banking at Westwind Partners and Stifel Nicolous



Darren Cooke
CHIEF EXECUTIVE OFFICER

Previously held senior positions with **Northern Star Resources**, **Newmont Mining** and **Barrick Gold**

Geologist with over 27 years' experience. Extensive gold industry experience in Australia and North America spanning regional and near mine exploration, production geology, engineering planning and corporate development
Previous positions include Kalgoorlie district geology manager for Barrick Gold and Principal Geologist – BD for Northern Star Resources



Maddison Cramer
JOINT COMPANY SECRETARY

Bellevue Gold, Midas Minerals, Cygnus



William Nguyen
CHIEF FINANCIAL OFFICER & JOINT COMPANY SECRETARY

Regis, Cliffs Natural Resources



Juan Gutierrez
GROUP CHIEF GEOLOGIST

Northern Star, Golder Associates



Tabatha LeBlanc
VICE PRESIDENT – ENVIRONMENT & COMMUNITY

Generation Mining, Trans Canada Pipeline

CORPORATE OVERVIEW



Exceptional institutional share register with a strong balance sheet to fund future growth

CURRENT SHARE PRICE ¹

A\$0.031

MARKET CAPITALISATION ¹

~A\$72m

CASH POSITION ²

~A\$10.4m



CAPITAL STRUCTURE

ASX Code	AUT
Shares on issue	2.3B
Unlisted options & performance rights	196M
Top 20 Shareholders	61%

SHAREHOLDER SUMMARY

Board & Management (on a fully diluted basis)	15%
Australian & Global Institutions	40%
Substantial Shareholders	
1832 Asset Management	13.4%
Franklin Resources, Inc.	7.0%
Campbell Kitchener Hume & Assoc.	4.9%

1. Indicative as at market close on 7 June 2023.
2. Cash and cash equivalents as at 31 March 2023.

1

REGIONAL DISCOVERY

Greenfields Exploration



- ▶ Limited systematic modern camp-scale exploration
- ▶ First time the mineral district has been consolidated
- ▶ 500km² of exploration tenure
- ▶ Strong indications of gold and base metal mineralisation
- ▶ Multiple fluid pathways and structures

2

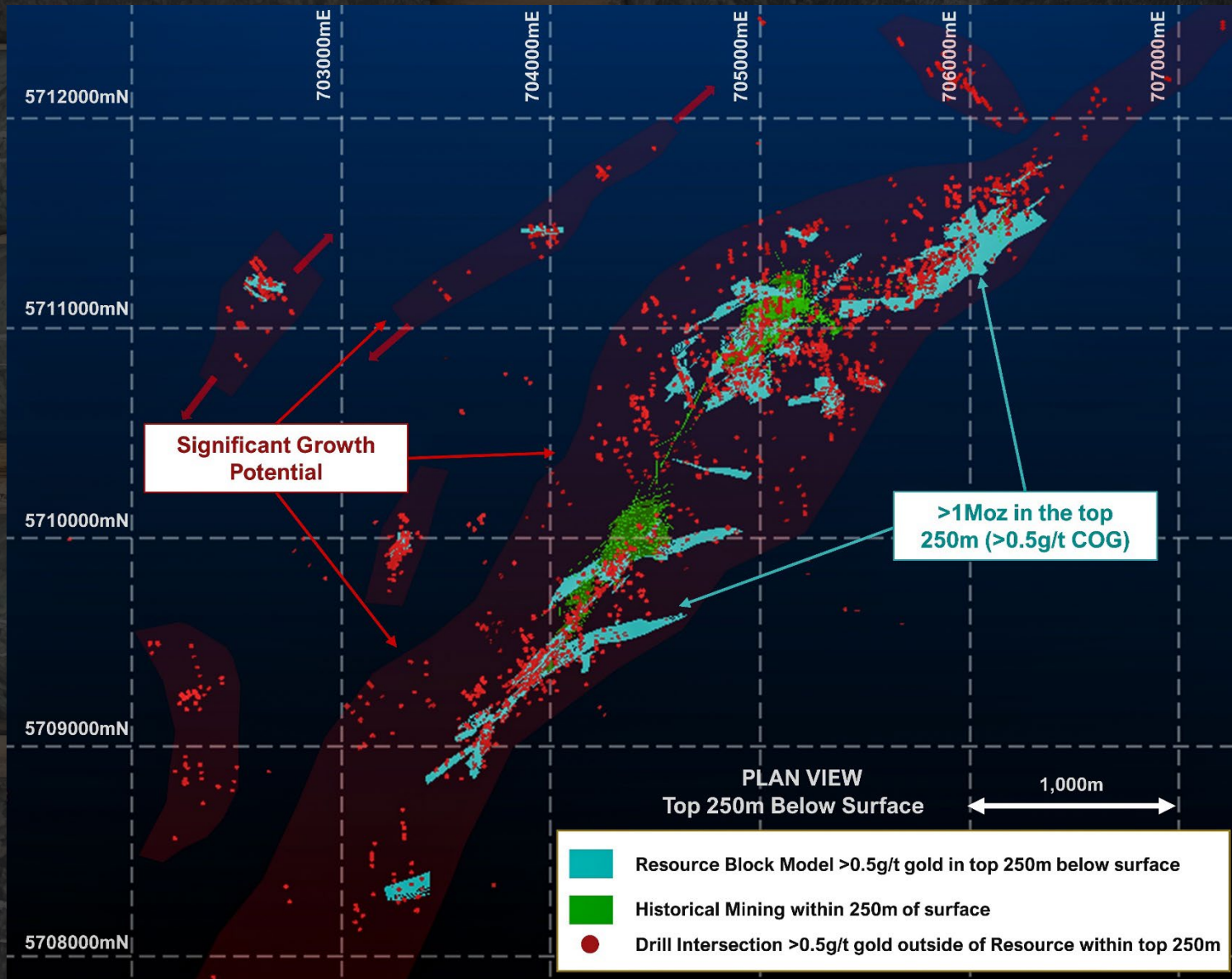
NEAR MINE GROWTH

Brownfields Around the Headframe



- ▶ 2.8Moz @ 7.2g/t Inferred Resource
- ▶ Near mine deposits contributing to Resource growth
- ▶ Near surface mineralisation with open pit potential
- ▶ Underground potential with significant scope to grow
- ▶ Open in all directions

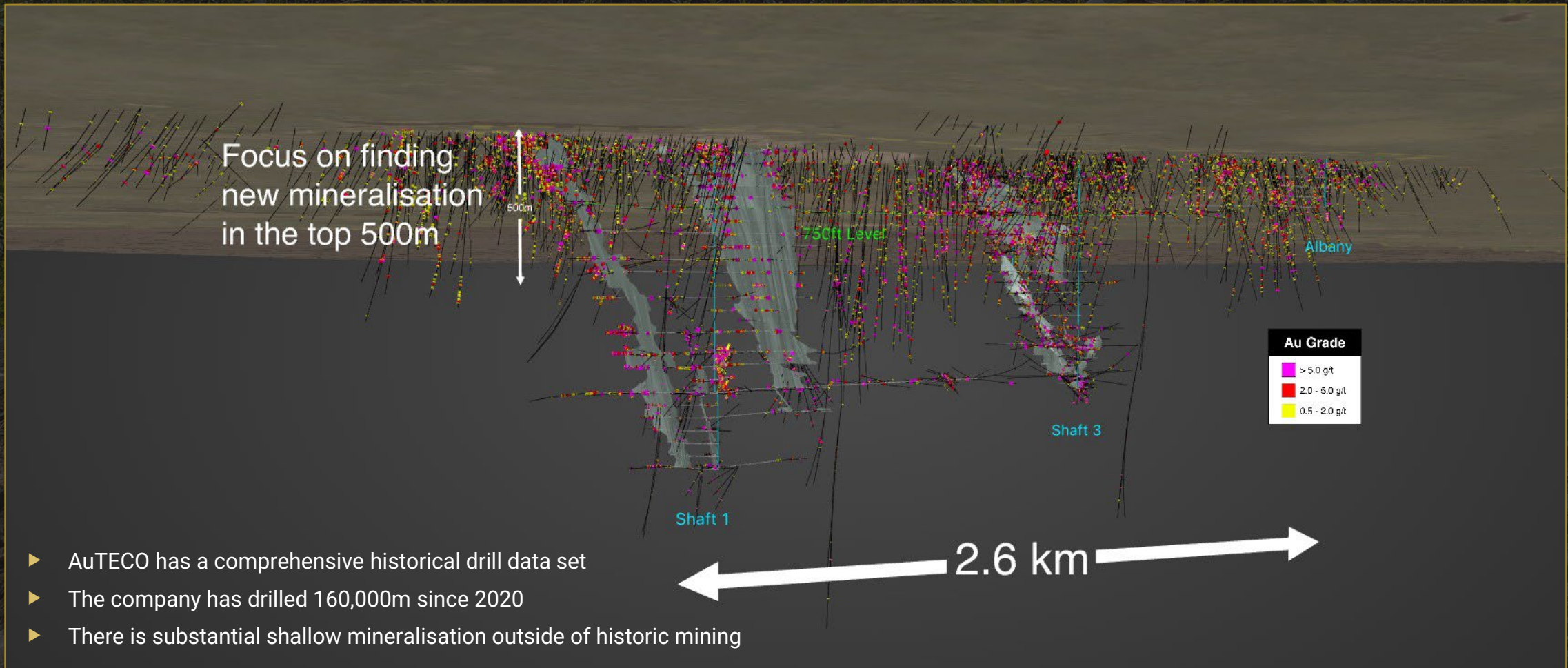
SIGNIFICANT NEAR-SURFACE UPSIDE



Significant Potential to Grow the 2.8Moz @ 7.2g/t Resource

- ▶ Over 1Moz above 0.5g/t in the top 250 metres
- ▶ **Extensive** shallow mineralisation in the top 250m below surface **outside of the current Resource**
- ▶ Significant open pit potential – under review
- ▶ Resource remains open in all directions

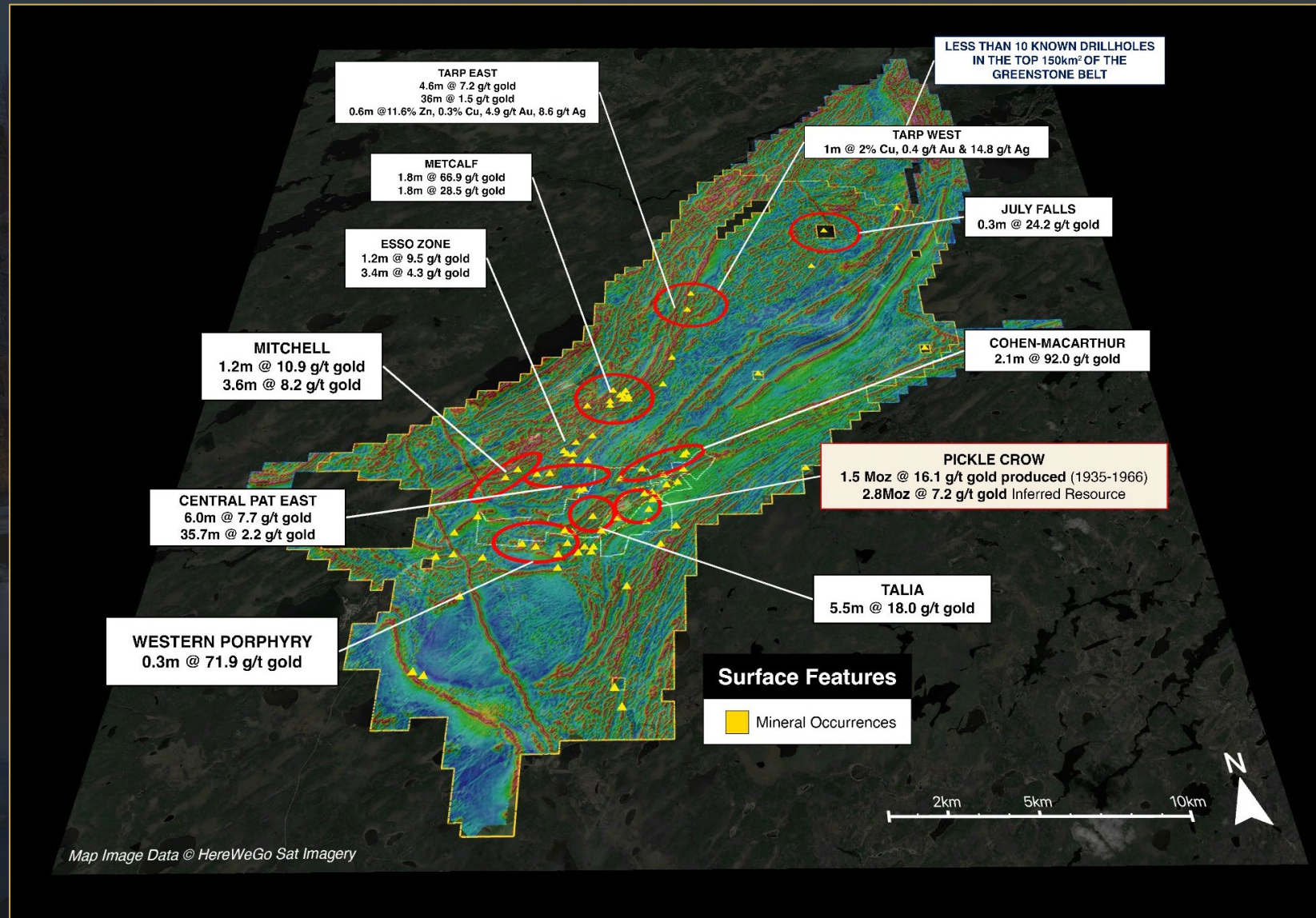
AN EXTENSIVE MINERALISED SYSTEM



TO EXPLORE INTERACTIVE 3D SLIDE CLICK:

<https://vrify.com/decks/13521?slide=261381>

AN ENTIRE MINERAL DISTRICT



Building on a remarkable 2022 to fast-track exploration of one of the most prospective gold exploration plays in addition to advancing the 2.8Moz gold Resource towards production



FAST-TRACK REGIONAL EXPLORATION

- ▶ 500km² land holding in one of the most prospective gold camps globally
- ▶ Accelerate drilling during winter - best time to access
- ▶ Test the scale of the system



NEAR-MINE

- ▶ Assess open pit opportunities and grow the shallow high-grade mineralisation outside of the Resource
- ▶ Multiple high-grade lodes for immediate testing
- ▶ Mineralisation open in all directions



SIGNIFICANT OPPORTUNITIES

- ▶ Competitive advantage with >40km of underground development
- ▶ Untested high priority copper – zinc – silver VMS targets
- ▶ Leverage surface infrastructure including ‘start-up’ processing plant, minesite camp, hydropower, proximity to town and airport

A COMPELLING INVESTMENT OPPORTUNITY

One of the highest grade +2Moz Inferred Resources with strong potential to grow



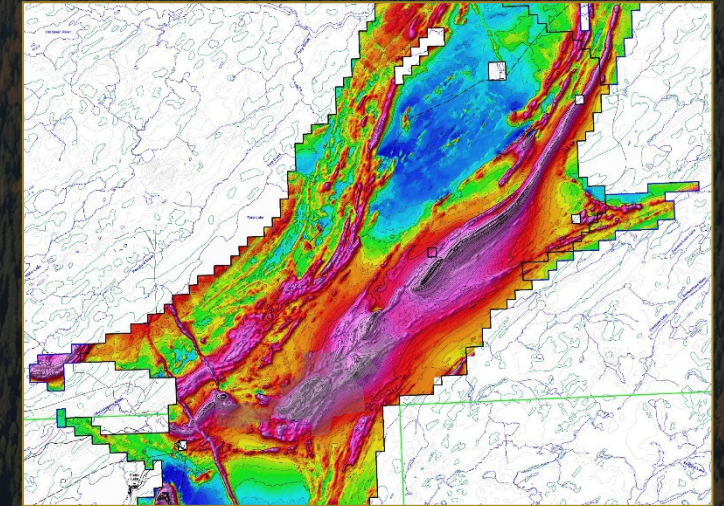
LOCATION

- ▶ Operating in a stable **Tier 1 mining jurisdiction**, Ontario Canada
- ▶ In a prolific mineral belt with **>40Moz gold endowment**



THE ASSET – PICKLE CROW

- ▶ **Long history** of high-grade gold production (1.5Moz @ 16.1g/t)
- ▶ **Year-round access** with quality infrastructure and large regional land holding



UPSIDE

- ▶ Exceptional **discovery potential** in a consolidated mineral district
- ▶ Near-mine Inferred Resource base of **2.8Moz @ 7.2g/t** gold; remains **open** in all directions

- ▶ Run by a well-known team with a proven track record of delivering

ENQUIRIES?

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ASX: AUT

APPENDICES



APPENDIX 1 – RESOURCE PEER COMPARISON DATA



COMPANY	PROJECT	STAGE	MEASURED		INDICATED		INFERRED		TOTAL		Market Cap @ 1/5/2023 in AUD
			Grade	Ounces	Grade	Ounces	Grade	Ounces	Grade	Ounces	
Matdador Mining ¹	Cape Ray	Resource	-	-	3.15	356,000	1.60	481,000	2.02	837,000	\$ 23,320,000
AuTECO ²	Pickle Crow	Resource	-	-	-	-	7.20	2,754,970	7.20	2,754,970	\$ 93,000,000
Musgrave Minerals ³	Cue Gold Project	Resource	-	-	2.60	435,000	2.10	492,000	2.30	927,000	\$ 133,020,000
Bellevue Gold ⁴	Bellevue	Construction	-	-	11.20	1,700,000	8.80	1,500,000	9.90	3,100,000	\$ 1,550,000,000
Saturn Metals ⁵	Apollo Hill	Resource	-	-	0.58	760,000	0.62	710,000	0.60	1,470,000	\$ 25,760,000
Ausgold Limited ⁶	Katanning	PFS	1.31	800,000	1.14	984,000	1.03	370,000	1.21	2,160,000	\$ 113,100,000
Genesis Minerals ⁷	Leonora	Resource	5.30	135,000	1.60	1,025,000	1.40	857,000	1.60	2,017,000	\$ 651,000,000
De Grey Mining ⁸	Mallina	PFS	1.70	265,000	1.30	6,590,000	1.30	3,779,000	1.30	10,634,000	\$ 2,520,000,000
Kin Mining ⁹	Cardinia	PFS	1.20	31,000	1.40	797,000	1.10	547,000	1.27	1,406,500	\$ 47,120,000
Breaker Resources ¹⁰	Lake Roe	Scoping	-	-	1.20	1,000,000	1.80	906,000	1.60	1,684,000	\$ 151,980,000
Beacon Minerals ¹¹	Juardi Hills	Production	1.28	77,000	1.13	178,000	1.29	33,000	1.18	287,000	\$ 123,970,000
Gascoyne Resources ¹²	Murchison	Production	1.00	15,200	1.20	1,117,500	1.50	413,100	1.30	1,545,800	\$ 114,010,000
Calidus ¹³	Warrawoona	Production	0.93	49,000	1.10	1,103,000	1.70	513,000	1.20	1,662,000	\$ 104,370,000

Note: Resources listed are reported inclusive of Ore Reserves

SOURCE:

1. ASX:MZZ Release 24/4/2023 - 'Corporate Presentation - April 2023'
2. ASX:AUT: Release 4/5/2023 - 'High Grade Inferred Gold Resource Grows to 2.8Moz @7.2g/t
3. ASX:MGV Release 17/4/2023 - 'Stage 1 PFS Presentation - Cue Gold Project', page 30
4. ASX:BGL Release 2/5/2023 - 'Macquarie Australia Conference Presentation', Appendix
5. ASX:STN Release 13/4/2023 - 'Robust Resource Intersections'
6. ASX:AUC Release 5/4/2023 - 'Corporate Presentation April 2023', page 26
7. ASX:GMD Release 29/3/2022-'Resource increases by more than 400,000oz to 2Moz', page 3
8. ASX:DEG Release 31/5/2022 - 'Mallina Gold Project Resource Statement', Appendix 1
9. ASX:KIN Release 22/11/2022 - 'Kin Presents at RRS Summer Series - Syd/Mel', page 2
10. ASX:BRB Release 20/3/2023 - 'Ramelius makes recommended takeover offer', page 9
11. ASX:BCN Release 16/2/2023 - 'Beacon Minerals Presentation', page 9
12. ASX:GCY Release 2/5/2023 - 'Exceptional High Grade Results from Drilling at Never Never'
13. ASX:CAI Release 8/3/2023 - 'Euroz Hartleys Institutional Conference Presentation', Appendix 1

APPENDIX 2 – CORPORATE TRANSACTION DETAILS

SOURCE	DATE	ASSET	TARGET / SELLER	ACQUIRER	TRANSACTION TYPE	TRANSACTION VALUE
1	24/02/2022	Dixie	Great Bear Resources	Kinross	Company acquisition	US\$1.4B
2	26/11/2019	Red Lake	Newmont Mining	Evolution Mining	Asset Transaction	to US\$475M
3	20/05/2021	Phoenix Gold Project	Battle North Gold	Evolution Mining	Company acquisition	C\$343M
4	31/03/2023	Various	Yamana Gold	Pan American Silver, Agnico	Company acquisition	US\$4.8B
5	2/05/2023	Windfall	Osisko Mining	Goldfields	Asset Transaction (50%)	C\$600M
6	19/04/2023	Back River	Sabina	B2 Gold	Company acquisition	C\$1.1B
7	9/03/2022	Brucejack	Pretium	Newcrest Mining	Company acquisition	US\$2.4B

SOURCE:

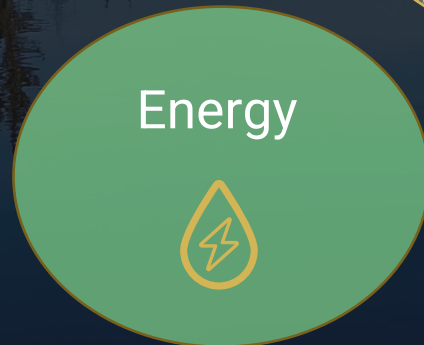
1. Kinross (TSX:K) News Release 24/2/2023 – 'Kinross completes acquisition of Great Bear Resources'
2. Evolution Mining (ASX:EVN) ASX Release 26/11/2019 – 'Evolution to acquire Red Lake Gold Complex in Canada'
3. Evolution Mining (ASX:EVN) ASX Release 20/5/2021 – 'Completion of Battle North Acquisition'
4. Yamana Gold (TSX:YRI) News Release 31/3/2023 - 'Pan American Silver Completes Acquisition of Yamana Gold'
5. Osisko Mining (TSX:OSK) News Release 2/5/2023 - 'Osisko Mining and Gold Fields Announce 50/50 Joint Venture on Windfall Gold Project'
6. B2Gold (TSX:BTO) News Release 19/4/2023 - 'B2Gold Completes Acquisition of Sabina Gold & Silver Corp.'
7. Newcrest Mining (ASX:NCM) ASX Release 9/3/2022 - 'Newcrest completes acquisition of Pretium Resources'

Sustainability is at the forefront

- ▶ Agreement signed with Mishkeegogamang Ojibway First Nation
- ▶ Avoidance of culturally and spiritually sensitive areas
- ▶ Participation in local community activities



- ▶ Carbon-neutral hydro power being investigated for future mine development
- ▶ Energy reduction initiatives



- ▶ Commitment to baseline monitoring and progressive rehabilitation
- ▶ Minimisation of disturbance, maintaining a healthy ecosystem
- ▶ Improve what AuTECO inherited (legacy site)



- ▶ No LTI's on site 2020-2023 YTD
- ▶ Safety committee, risk assessments and governance processes in place

