

NOOSA MINING INVESTOR CONFERENCE



ADVANCING THE HIGH-GRADE PICKLE CROW PROJECT IN ONTARIO, CANADA

2.23 Moz of Gold at 7.8g/t and **Growing Rapidly**

RAY SHORROCKS - EXECUTIVE CHAIRMAN

21 JULY 2022 | ASX: AUT

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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 "Resource increases by 500,000oz to 2.23Moz at 7.8g/t" and dated 15 February 2022. 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 – 8.9 Mt @ 7.8 g/t gold for 2.23M 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.

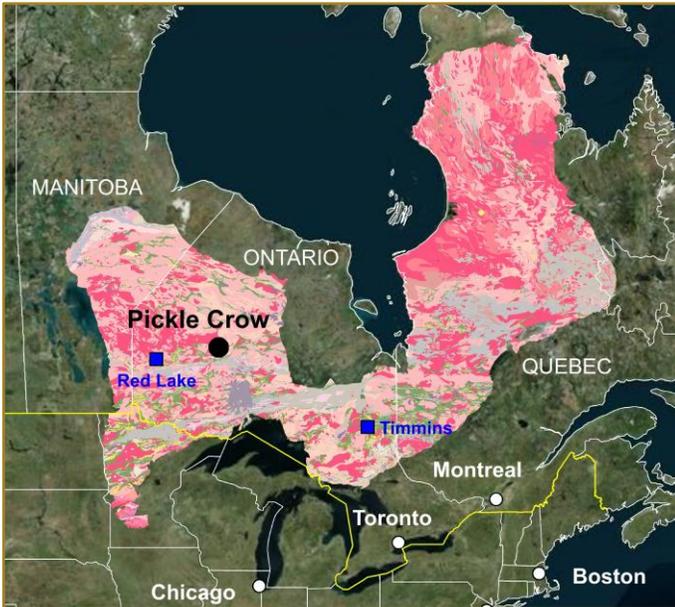
This Presentation also contains references to Certain Exploration Results that were first reported in accordance with ASX Listing Rule 5.7 in the Company's announcements of 28/01/2020, 26/03/2020, 01/09/2020, 11/11/2020, 19/01/2021, 7/04/2021, 16/06/2021, 15/07/2021, 2/08/2021, 5/10/2021, 2/12/2021, 18/1/2022, and 3/5/2022. 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.

INTRODUCTION TO AuTECO MINERALS

Canadian focused ASX-listed explorer with one of the highest grade +2Moz Resources GLOBALLY and an exceptional GROWTH trajectory

THE LOCATION

Northern Ontario, Canada



Tier one jurisdiction with year-round access from Thunder Bay (400kms)



THE ASSET

Historic Pickle Crow Mine



Historic UG production of 1.5Moz at 16.1g/t gold (1935 – 1966); Infrastructure



THE FUTURE

Resource Growth & Discovery



Resource of 2.23Moz at 7.8g/t gold, discoveries made on 500km² of claims

CORPORATE OVERVIEW

A Canadian-focused ASX listed company with one of the highest grade +2 Moz Resources Globally

CAPITAL STRUCTURE

ASX Code	AUT
Shares on issue	2.1B
Unlisted options & performance rights	237M
Top 20 Shareholders	63%

SHAREHOLDER SUMMARY¹

Board and Management (on a fully diluted basis)	16%
Australian & Global Institutions	39%
Substantial Shareholders	
• 1832 Asset Management	12.9%
• Franklin Resources, Inc.	6.2%
• Campbell Kitchener Hume & Assoc.	5.5%
• Symorgh Investments	5.2%



1. Indicative as at market close on 18 July 2022.

2. Balance net of payables as of 31 March 2022.

BOARD & MANAGEMENT TEAM

A leadership team with management DNA and experience in some of the most successful resource sector stories in the past decade, including Bellevue Gold and Northern Star



- 27 years experience working in the 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
- Previous Chairman of Bellevue Gold

Ray Shorrocks – Executive Chairman



- Geologist with 25 years' experience having previously held senior positions in global majors including Barrick Gold, Newmont and Northern Star Resources
- Extensive gold industry experience in Australia and North America spanning regional and near mine exploration, operational geology, long-term planning and corporate development

Darren Cooke – Chief Executive Officer



- Experienced geologist with a proven track record of mineral discoveries, corporate growth, international investor relations and creating shareholder wealth
- Founder and former Managing Director of Gryphon Minerals
- Founder and Managing Director of Bellevue Gold

Steve Parsons – Non-Executive Director



- Chartered Accountant with over 13 years' experience in the mining industry, including 8 years in the gold sector.
- Involved in the accounting and financial management across exploration activities, development projects and operating assets.
- Previously the Financial Controller of Australian gold producer Regis Resources Limited.

William Nguyen – Chief Financial Officer and Joint Company Secretary



- 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.
- Non-Executive Director of Bellevue Gold

Michael Naylor – Non-Executive Director and Joint Company Secretary



- 20 years' experience in mining related projects in Canada. Specialising in environmental management and community liaison, she holds a Bachelor of Science with double major in Environmental Science and Anthropology.
- Expert in both federal Canadian and Ontario provincial government permitting requirements for mining projects.
- Former Manager of Sustainability at Generation Mining Ltd

Tabatha LeBlanc – Vice President – Environment & Community

PICKLE CROW GEOLOGICAL SETTING

World-class setting in the prolific Superior Craton

CONTINENT



North America

TECTONIC ELEMENT



Laurentia Superior Craton

PROVINCE



Uchi Sub-province

REGION



Pickle Lake Greenstone Belt

DEPOSIT



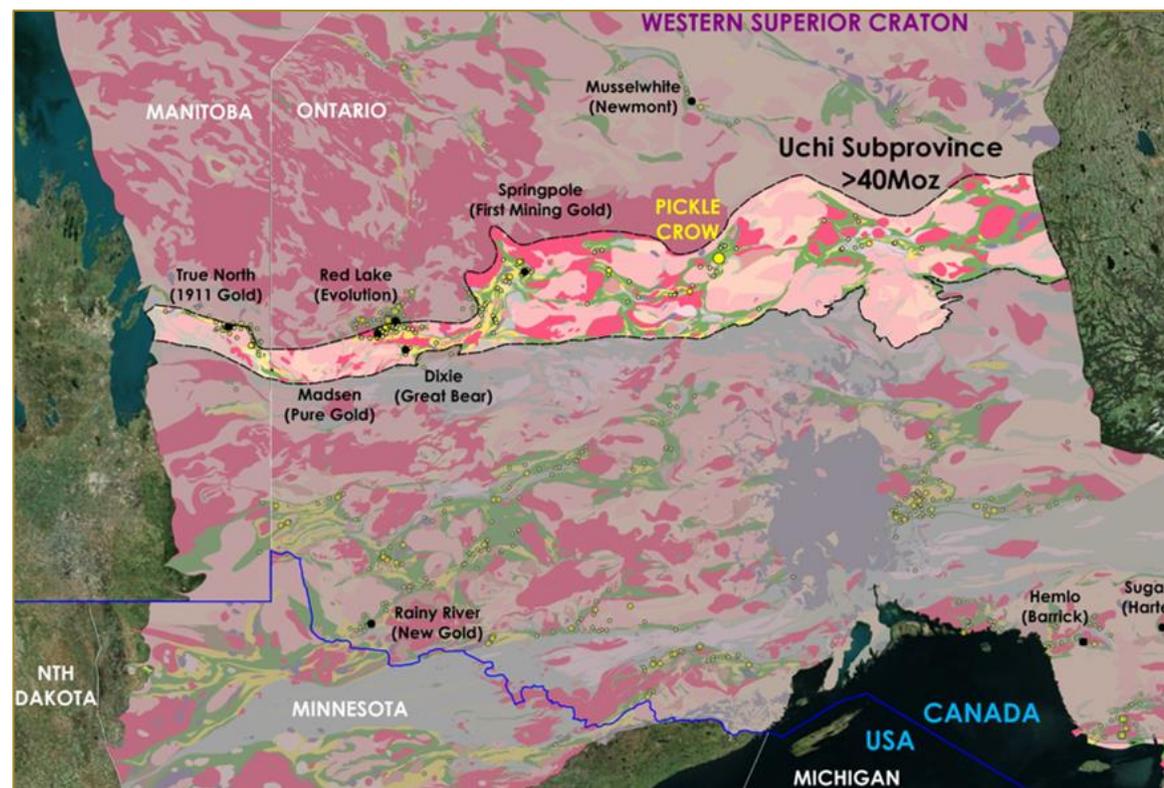
Pickle Crow & Central Patricia

THE UCHI SUBPROVINCE

One of the best gold addresses globally

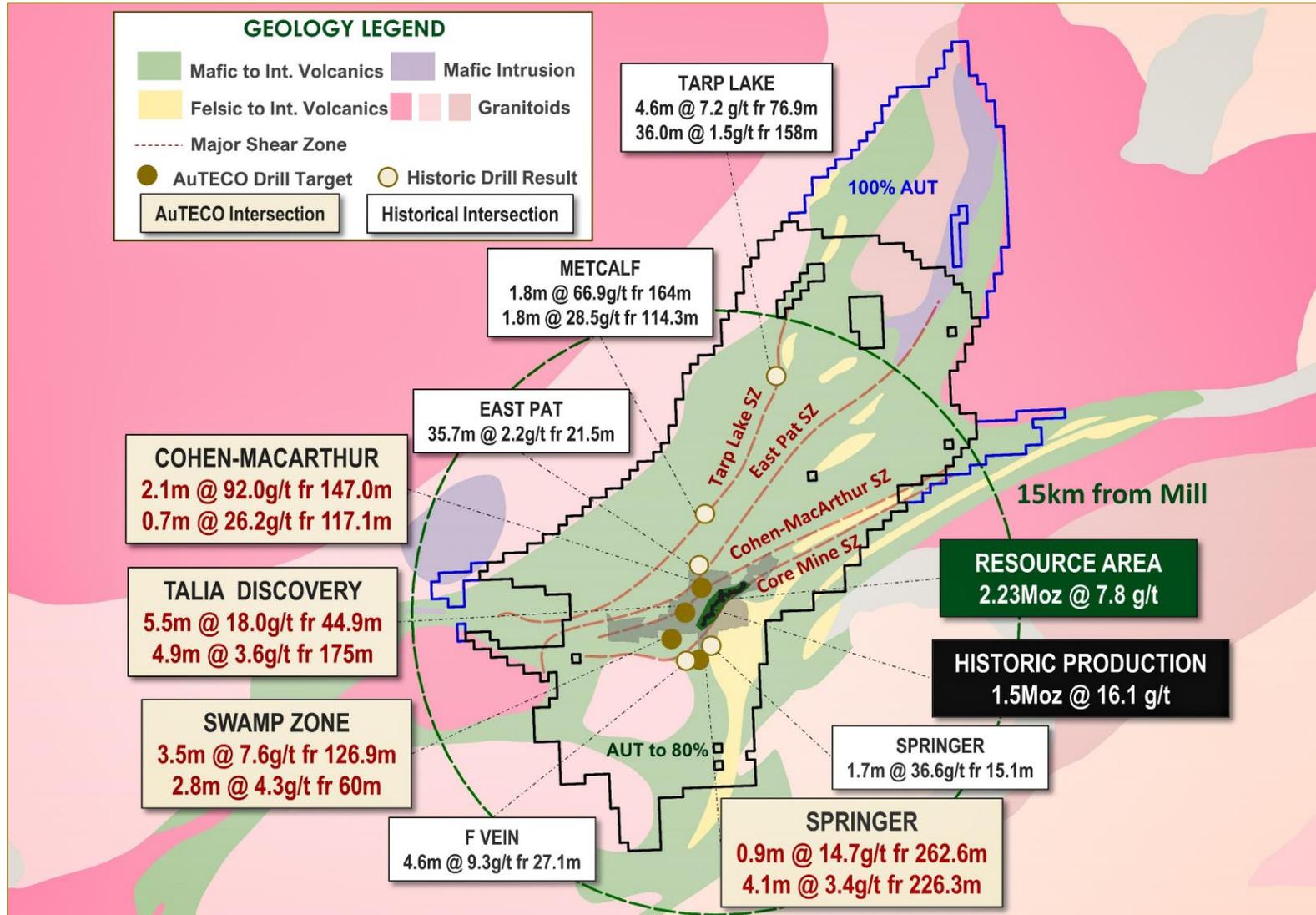
- Located in the prolific Uchi Sub province of the Western Superior Craton
- Archean Granite – Greenstone terrane that hosts significant gold deposits, including:
 - **Red Lake** (Evolution Mining)
 - **Musselwhite** (Newmont)
 - **Springpole** (First Mining)
 - **Madsen** (Pure Gold)
 - **Dixie** (Great Bear)
 - **West Red Lake** (West Red Lake Gold)

BASEMENT GEOLOGY OF THE WESTERN SUPERIOR CRATON³



AUTECO HAS AN ENTIRE MINERAL DISTRICT

The bigger picture beyond the Pickle Crow Deposit



HISTORIC AND RECENT DRILL RESULTS OUTSIDE OF PICKLE CROW DEMONSTRATE CAMP-SCALE POTENTIAL



TWO DISTINCT STYLES OF MINERALISATION

Bulk and narrow mineralisation styles have the potential to provide future operational flexibility



ALTERATION (BIF) HOSTED

Dec 2021 Resource
2.5Mt @ 3.8g/t for
300koz

- Overlooked in previous exploration activities
- **Broad zones** of **sulphide** mineralisation (to +20m)
- Typically hosted in **BIF** and lesser Porphyry
- Amenable to **Bulk Mining** (Both Open pit & UG)
- This type of mineralisation was mined at
 - Musselwhite (Newmont, +5Moz), 150km from PC
 - Dona Lake (MEK, 0.5Moz), Central Patricia (0.67Moz)

2021 DRILL HIGHLIGHTS

- 20.4m @ 5.3 g/t
- 19.5m @ 3.3 g/t
- 10.5m @ 3.6 g/t
- 14.9m @ 2.2 g/t
- 36.7m @ 1.5 g/t
- 25.2m @ 1.3 g/t
- 6.0m @ 5.8 g/t



QUARTZ VEINS

Dec 2021 Resource
6.4Mt @ 9.3g/t for
1,920koz

- Source of historic production at Pickle Crow (**1.5Moz @ 16.1g/t**)
- **High-grade** narrow veins, **coarse gold**, low sulphide content
- **Consistent veins** with internal high-grade plunging shoots, **multiple** orientations
- Amenable to **Selective Mining**

2021 DRILL HIGHLIGHTS

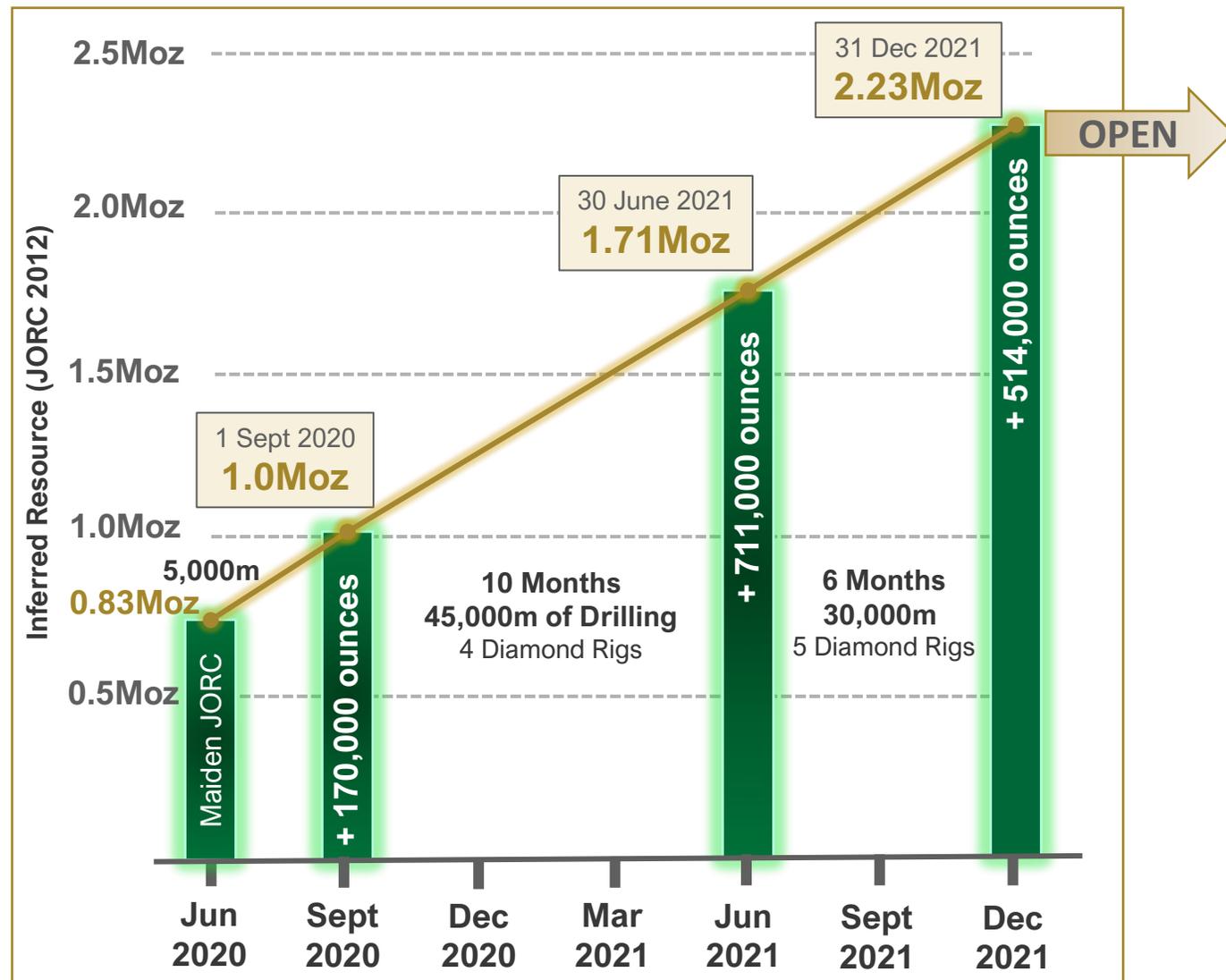
- 7.3m @ 33.3 g/t
- 2.0m @ 68.3 g/t
- 2.1m @ 31.8 g/t
- 3.3m @ 15.9 g/t
- 2.8m @ 17.9 g/t
- 4.1m @ 11.0 g/t
- 1.8m @ 21.2 g/t

RAPID & LOW-COST RESOURCE GROWTH

Smart investment in the drill bit

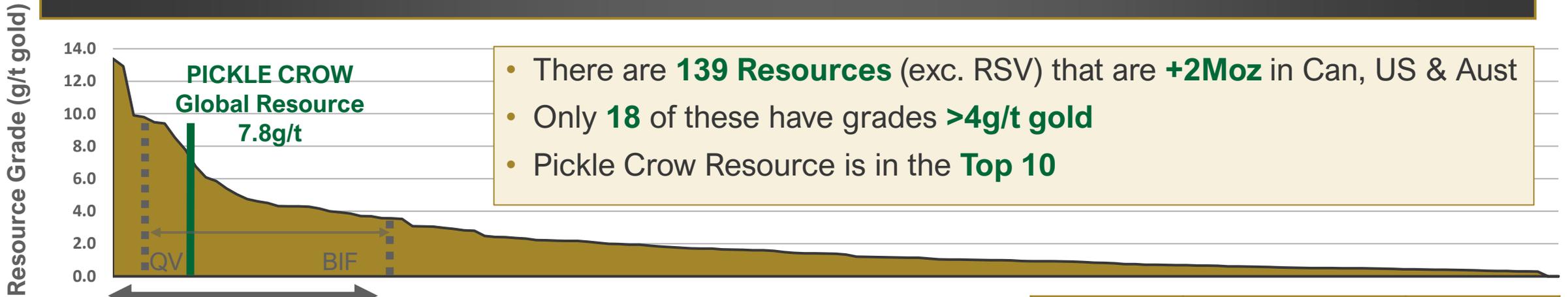
RESOURCE ESTIMATE AT 31 DECEMBER 2021

Mineralisation Domain	Lower Cut-off	Tonnes (Mt)	Gold Grade (g/t)	Gold (Million oz)	Variance to 30 June 2021 Resource
Quartz Lodes	3.5g/t	6.4	9.3	1.92	+453,000oz
Alteration Hosted (BIF)	2.0g/t	2.5	3.8	0.30	+61,000 oz
TOTAL		8.9	7.8	2.23	+514,000 oz (+30%)

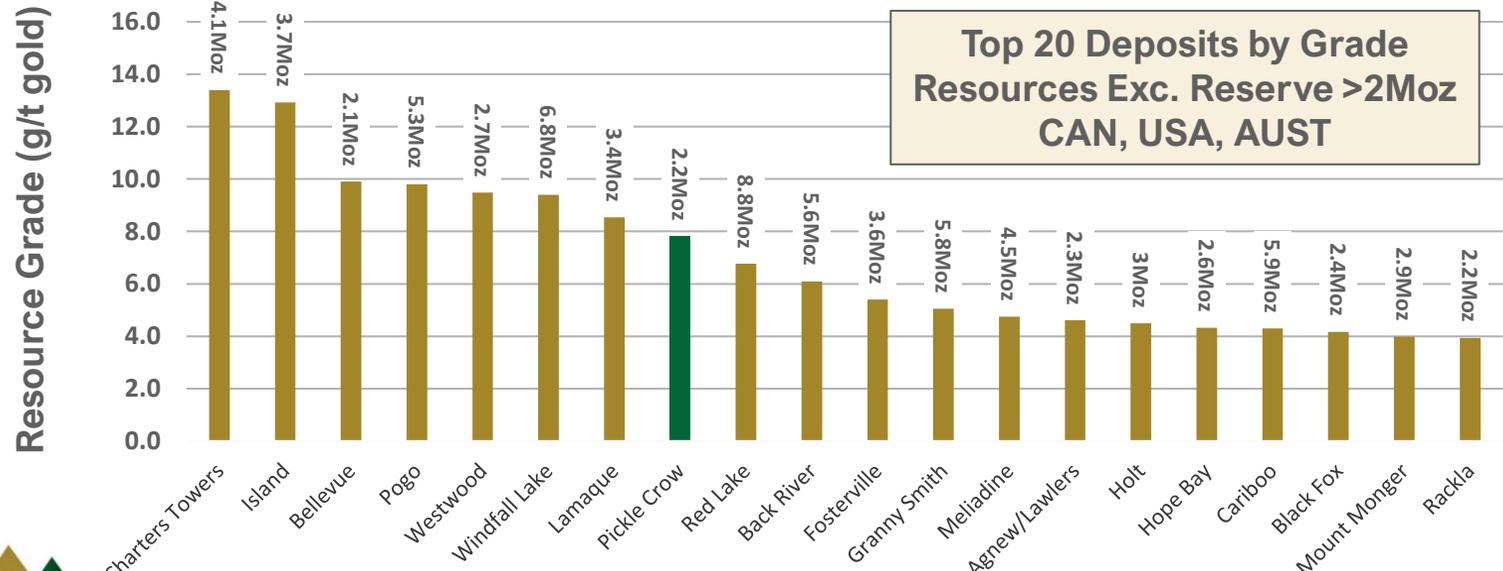


GLOBALLY SIGNIFICANT RESOURCE GRADE

GRADE DISTRIBUTION OF TIER 1 +2Moz RESOURCES (Exclusive of Reserve)⁴



- There are **139 Resources** (exc. RSV) that are **+2Moz** in Can, US & Aust
- Only **18** of these have grades **>4g/t gold**
- Pickle Crow Resource is in the **Top 10**



Project	Resource (exc. Reserve)		Reporting Code
	Grade	Ounces	
Charters Towers	13.39	14,065,382	JORC (2012)
Island	12.92	3,740,000	NI 43-101
Bellevue	9.90	2,110,000	JORC (2012)
Pogo	9.80	5,282,000	JORC (2012)
Westwood	9.48	2,744,000	NI 43-101
Windfall Lake	9.40	6,789,000	NI 43-101
Lamaque	8.54	3,397,598	NI 43-101
Pickle Crow	7.80	2,230,000	JORC (2012)
Red Lake	6.76	8,807,000	JORC (2012)
Back River	6.09	5,589,000	NI 43-101
Fosterville	5.40	3,571,000	NI 43-101
Granny Smith	5.05	5,817,000	JORC (2012)
Meliadine	4.75	4,540,000	NI 43-101
Agnew/Lawlers	4.61	2,348,000	JORC (2012)
Holt	4.50	3,009,000	NI 43-101
Hope Bay	4.32	2,645,000	NI 43-101
Cariboo	4.30	5,921,000	NI 43-101
Black Fox	4.17	2,369,000	NI 43-101
Mount Monger	3.99	2,913,000	JORC (2012)
Rackla	3.93	2,160,500	NI 43-101

Please refer to Appendix 1 for detailed information on Comparisons

4. Source: S&P Global Capital IQ Dataset downloaded on the 27th of May 2022.



AUTECO ORGANIC GROWTH STRATEGY

A dual strategic focus to unlock the full potential of the Pickle Lake Greenstone Belt

AuTECO ORGANIC GROWTH STRATEGIC PILLARS



REGIONAL DISCOVERY

Discover and develop deposits on the 500km² of regional exploration tenure outside of Pickle Crow, Unlock the camp-scale potential of the Pickle Lake greenstone belt

If mineralisation is present, test continuity and potential to define Inferred Resource

Test conceptual targets with drilling, update geo models

Collect early-stage data to generate conceptual targets



NEAR-MINE GROWTH

Discover and define mineralisation proximal to the historic Pickle Crow deposit, continue to grow the 2.2Moz Resource and advance toward production

Conduct planning and permitting activities to advance towards production

Infill drill and continue to grow the Resource, define size of the prize

Discover new mineralisation and identify extensions around Pickle Crow

**TEST
CONTINUITY**

**PATH TO
PRODUCTION**

**DRILL
TEST**

**RESOURCE
GROWTH**

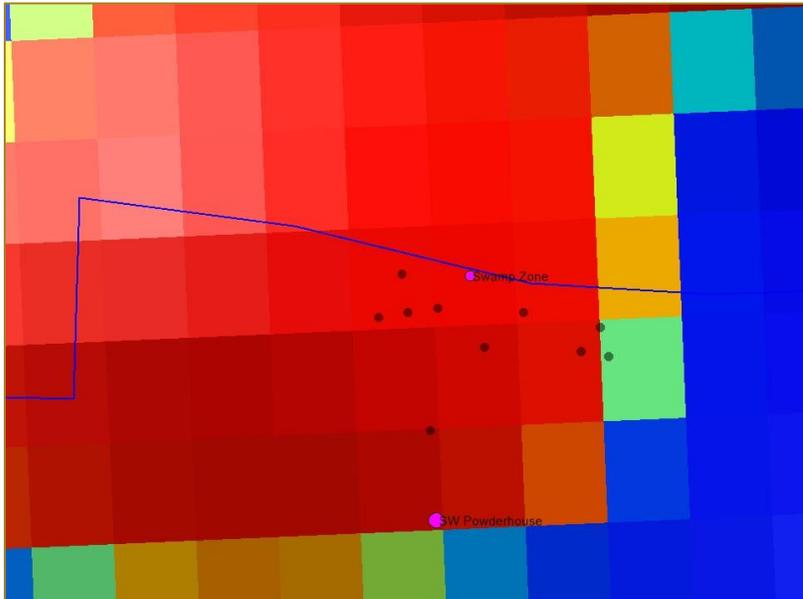
**TARGET
GENERATION**

**DISCOVER &
DEFINE**

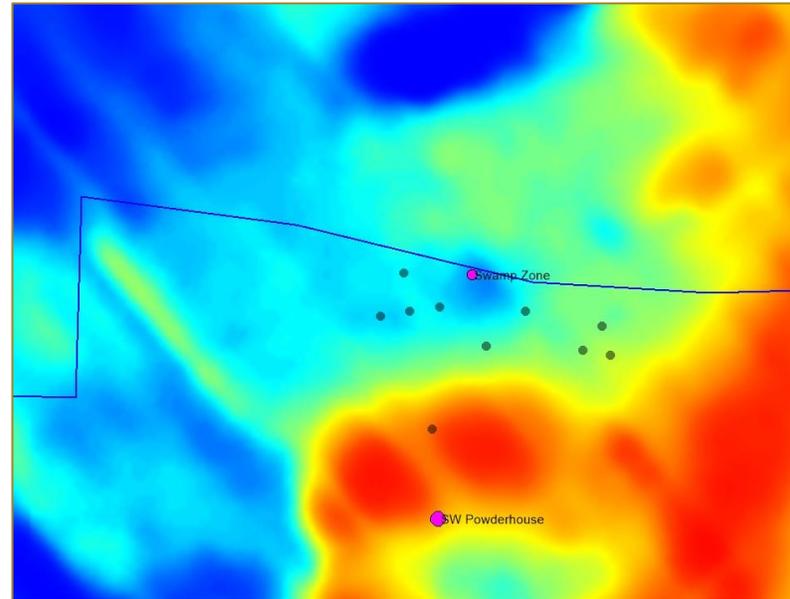
USING MODERN TECHNOLOGY TO SEE BELOW THE SURFACE

Investing in generative geophysics is yielding results

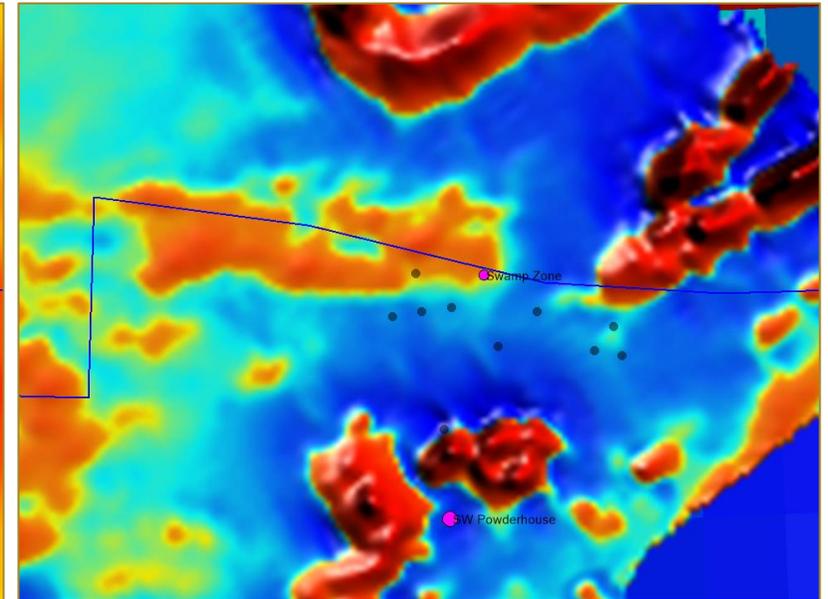
ONTARIO GEOLOGICAL SURVEY
STATEWIDE MAGNETICS



PC GOLD AEROMAGNETICS
(2010)



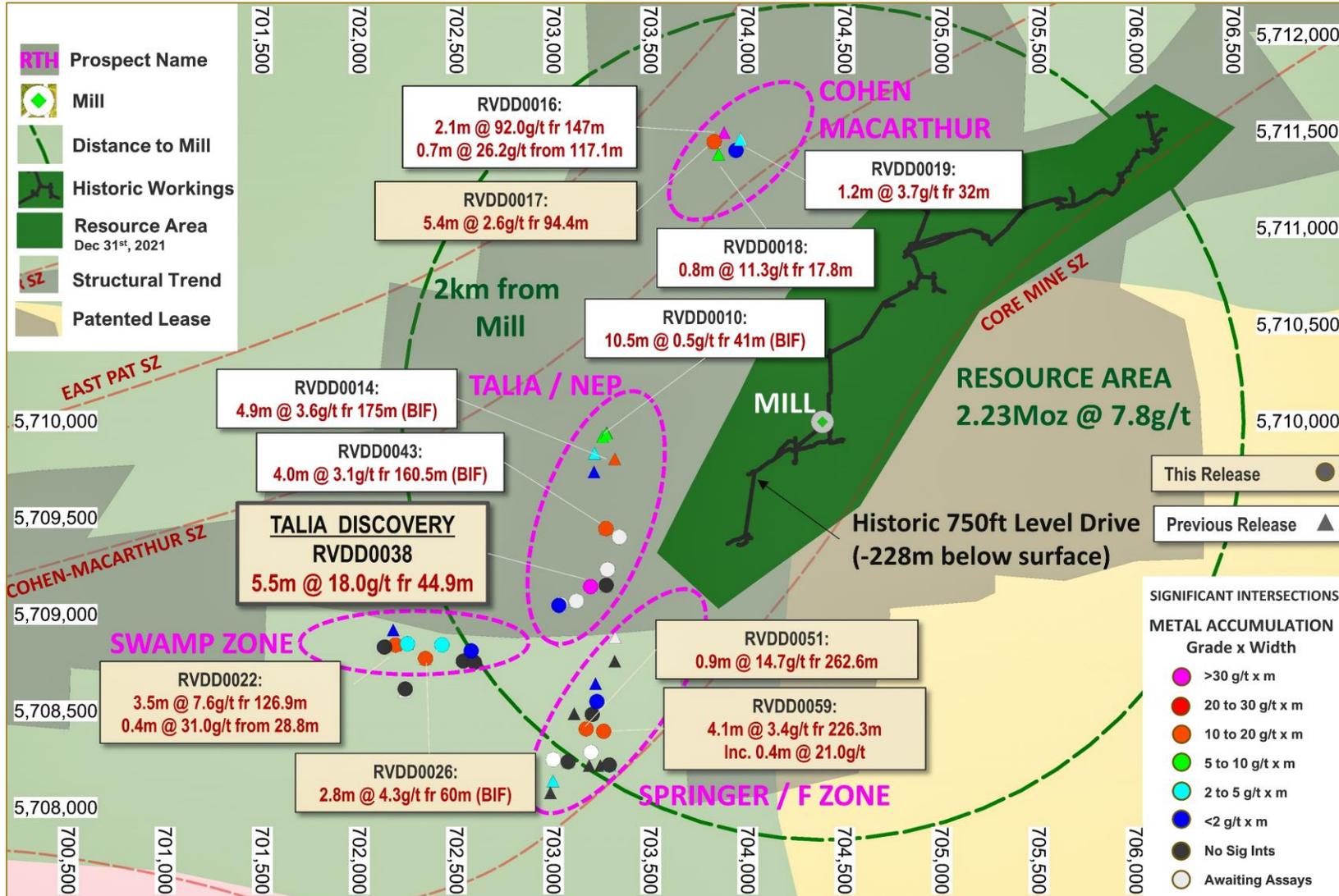
AuTECO DRONE MAGNETICS
(2021)



- Lease wide aeromagnetic data acquisition planned for June 2022
- Trial of real-time Ambient Noise Tomography (ANT) planned for late 2022

EARLY-STAGE TARGETS OUTSIDE OF THE 2.23MOZ RESOURCE

Significant near-mine growth potential



INITIAL WINTER RESULTS INDICATE STRONG POTENTIAL FOR SIGNIFICANT DISCOVERIES

PC GOLD AEROMAGNETICS (2010)

- Key concepts proven
- Winter is the best season for drilling in Northern Ontario
- Regional exploration will accelerate from October through April

FORWARD WORK PLAN

Continuing to advance and grow Pickle Crow at all levels



Resource Growth

Extend and **increase** the Resource with emphasis on both **open pit** and **underground growth potential**



Exploration & Drilling

Continue the dual strategy of **Near Mine** Resource growth and **Regional Discovery** focused exploration



Pathway to Production

Complete works and long lead time items that **advance the project towards production** in anticipation of **success**

2022 KEY OBJECTIVES

- Continue to grow the Inferred Resource
- Identify areas for conversion to Indicated
- Re-model the orebody at a 0.5g/t COG to assess bulk mining potential (OP & UG)
- Complete an additional 50,000m drill campaign
- Continue with BIF exploration to define size
- Continue vein exploration
- Test >5 regional targets outside of mine area
- Continue permitting to Advanced Exp
- Option study to access UG for infill drilling
- Conduct optimisations to assess pit potential

AUTECO – A COMPELLING INVESTMENT OPPORTUNITY

In Summary

AuTECO has built a strong platform for future growth, having advanced the historic Pickle Crow gold project to be one of the highest-grade emerging +2Moz Resources Globally

Work will continue to explore, define and grow the asset



One of the best mining addresses in the world

- Operating in a stable Tier 1 mining jurisdiction (Ontario, Canada)
- Located in a prolific mineral belt with >40Moz gold endowment (Superior Craton, Uchi Sub-province)



A long history of delivering high-grade gold

- Pickle Crow has a long history of high-grade gold mining, 1.5Moz @ 16.1g/t produced (1935-66)
- Independently estimated Resource of 2.23Moz at 7.8g/t Au
- Year-round access with quality Infrastructure and a large regional land holding



Exceptional exploration targets and strong drill results to date

- Limited modern systematic camp-scale exploration conducted by previous owners
- Promising near mine drill results to date, demonstrating extensions to known structures and discovery of mineralised vein arrays
- Historical data highlights regional potential, with km-scale mineralised trends - limited testing



Well funded to deliver with a quality experienced team

- Healthy cash balance to deliver growth (\$10.5M at 31 Dec 2021)
- 50km drill program in progress, 4 rigs on site
- Corporate & management team with experience, expertise and a track record of delivery
- Experienced, talented and established team on the ground in Canada