

ASX: AUT



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

2.2 Moz of Gold at 7.8g/t and Growing Rapidly

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## 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.

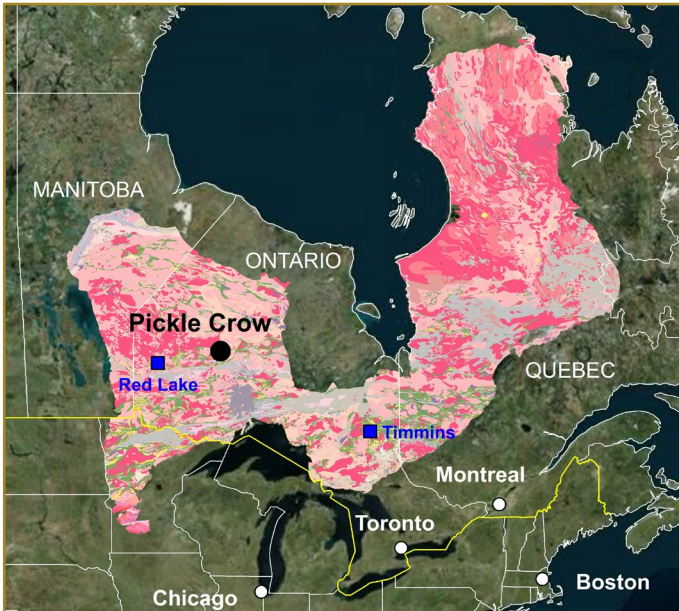
This Presentation also contains references to Certain Exploration Results that were first reported in accordance with ASX Listing Rule 5.7 in the Company's announcements of 28/01/2020, 26/03/2020, 01/09/2020, 11/11/2020, 19/01/2021, 7/04/2021, 16/06/2021, 15/07/2021, 2/08/2021, 5/10/2021, 2/12/2021, 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 500km<sup>2</sup> 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 SUMMARY<sup>1</sup>

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	5.1%

Current  
Share Price<sup>1</sup>  
A\$0.042

Market  
Capitalisation<sup>1</sup>  
~A\$87M

Cash  
Position<sup>2</sup>  
~A\$24.5M



# 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**



- 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**



- 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**



- 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**



- 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**



- 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**

# 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 500km<sup>2</sup> 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  
CONTINUITY**

Test conceptual targets with drilling, update geo models

**DRILL  
TEST**

Collect early-stage data to generate conceptual targets

**TARGET  
GENERATION**



### 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

**PATH TO  
PRODUCTION**

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

**RESOURCE  
GROWTH**

Discover new mineralisation and identify extensions around Pickle Crow

**DISCOVER &  
DEFINE**

# 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



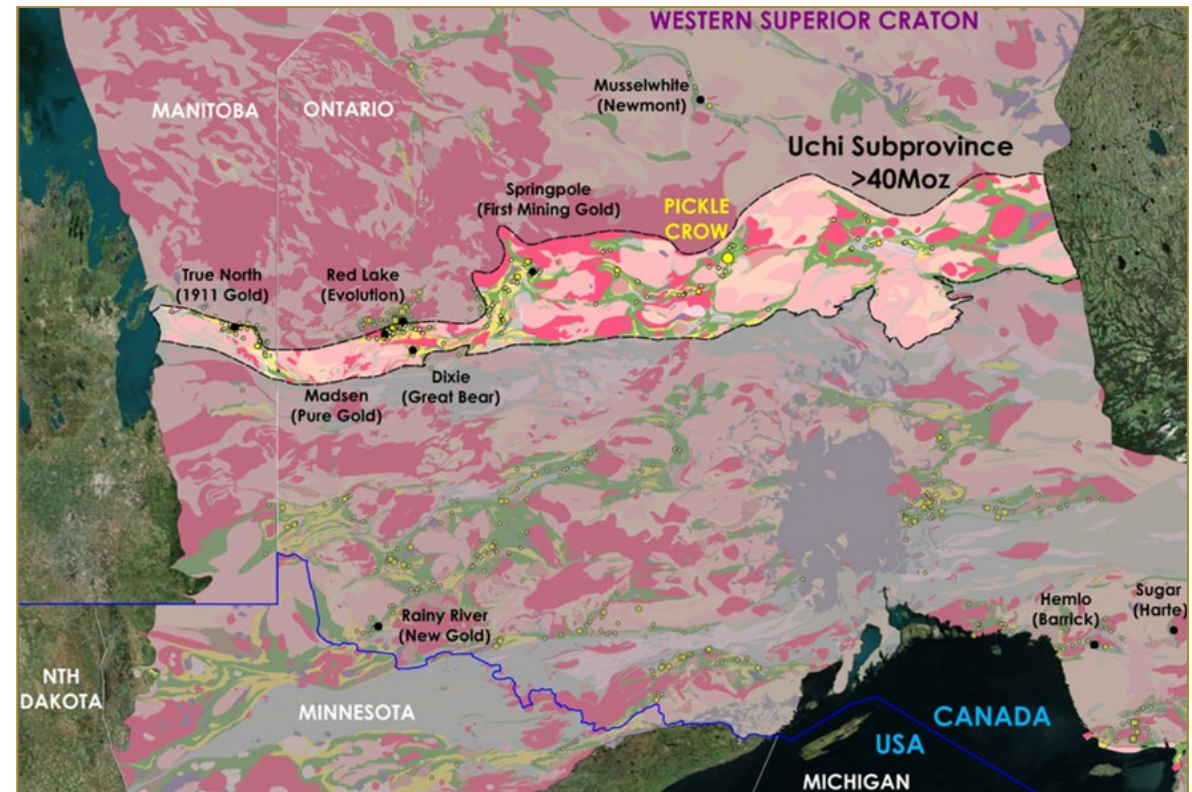
Pickle Crow  
& Central  
Patricia

## 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 CRATON<sup>3</sup>



# 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 @ 1.3g/t
- 6.0m @ 5.8g/t



## QUARTZ VEINS

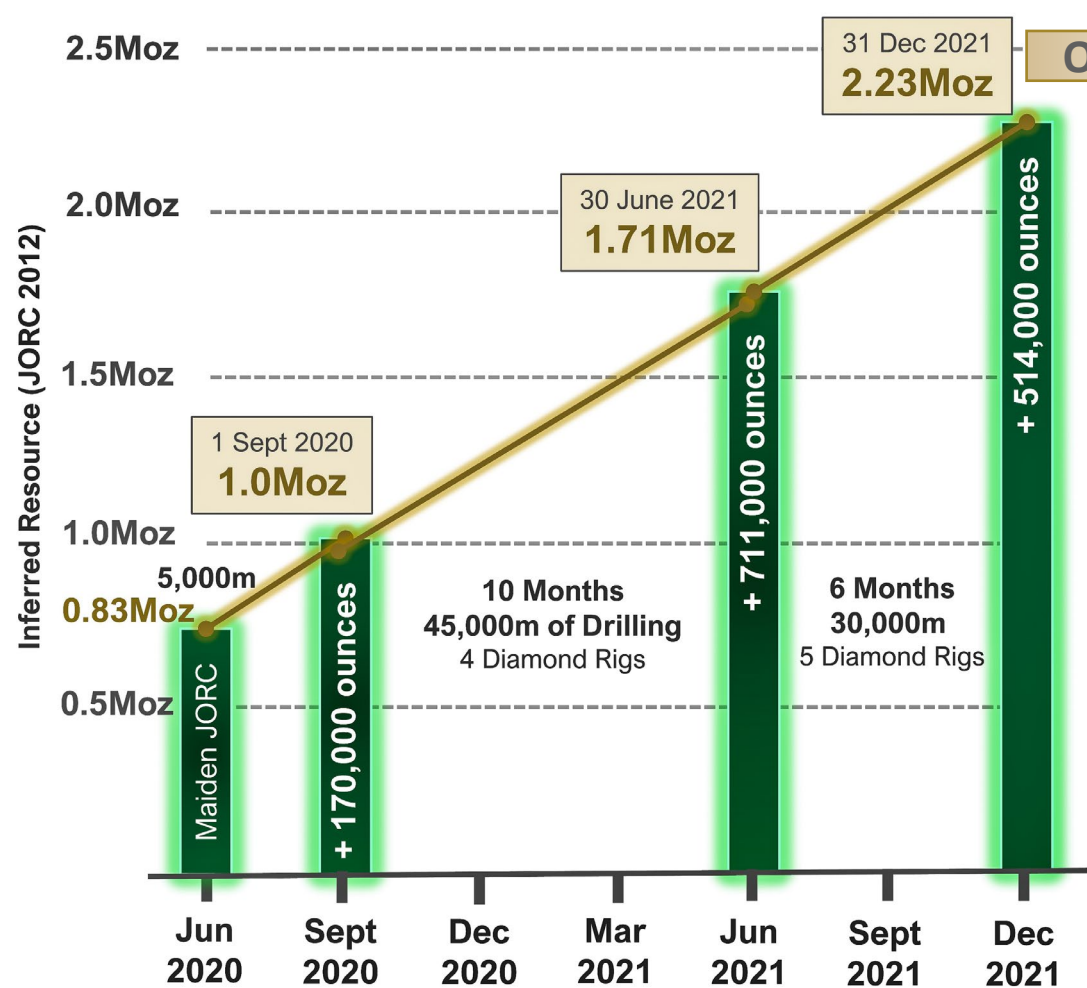
Dec 2021 Resource  
6.4Mt @ 9.3g/t for  
1,920koz

- 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 @ 17.9g/t
- 4.1m @ 11.0 g/t
- 1.8m @ 21.2 g/t

# RAPID LOW-COST GROWTH OF A GLOBALLY SIGNIFICANT RESOURCE

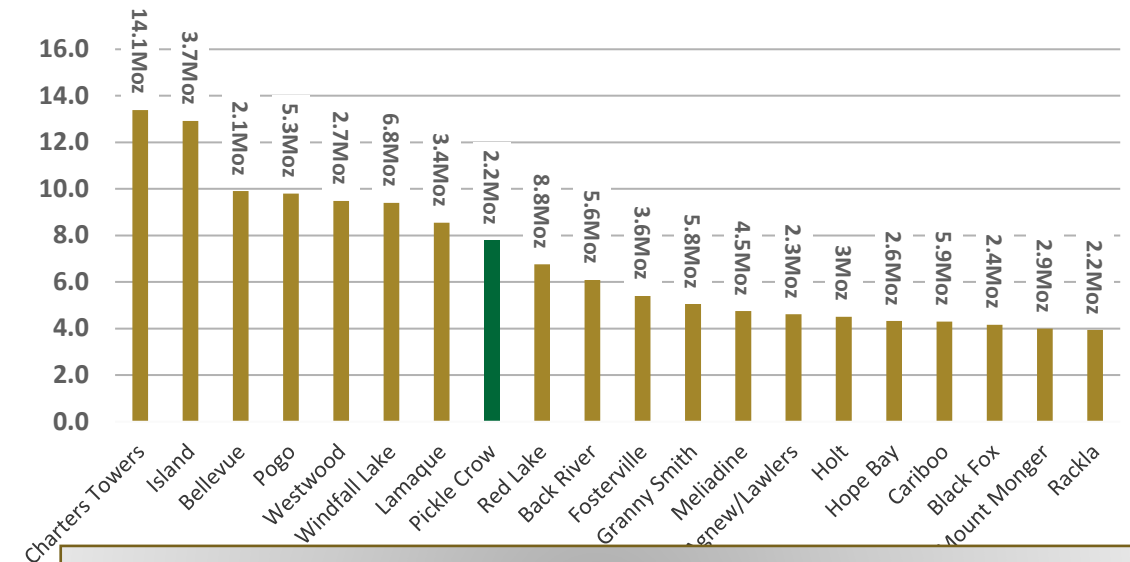


**1.2 Moz of Resource Added In 16 Months**  
For **A\$17.58** (US\$12.59) per ounce

## RESOURCE ESTIMATE AT 31 DEC 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
<b>TOTAL</b>		<b>8.9</b>	<b>7.8</b>	<b>2.23</b>	<b>+514,000 oz (+30%)</b>

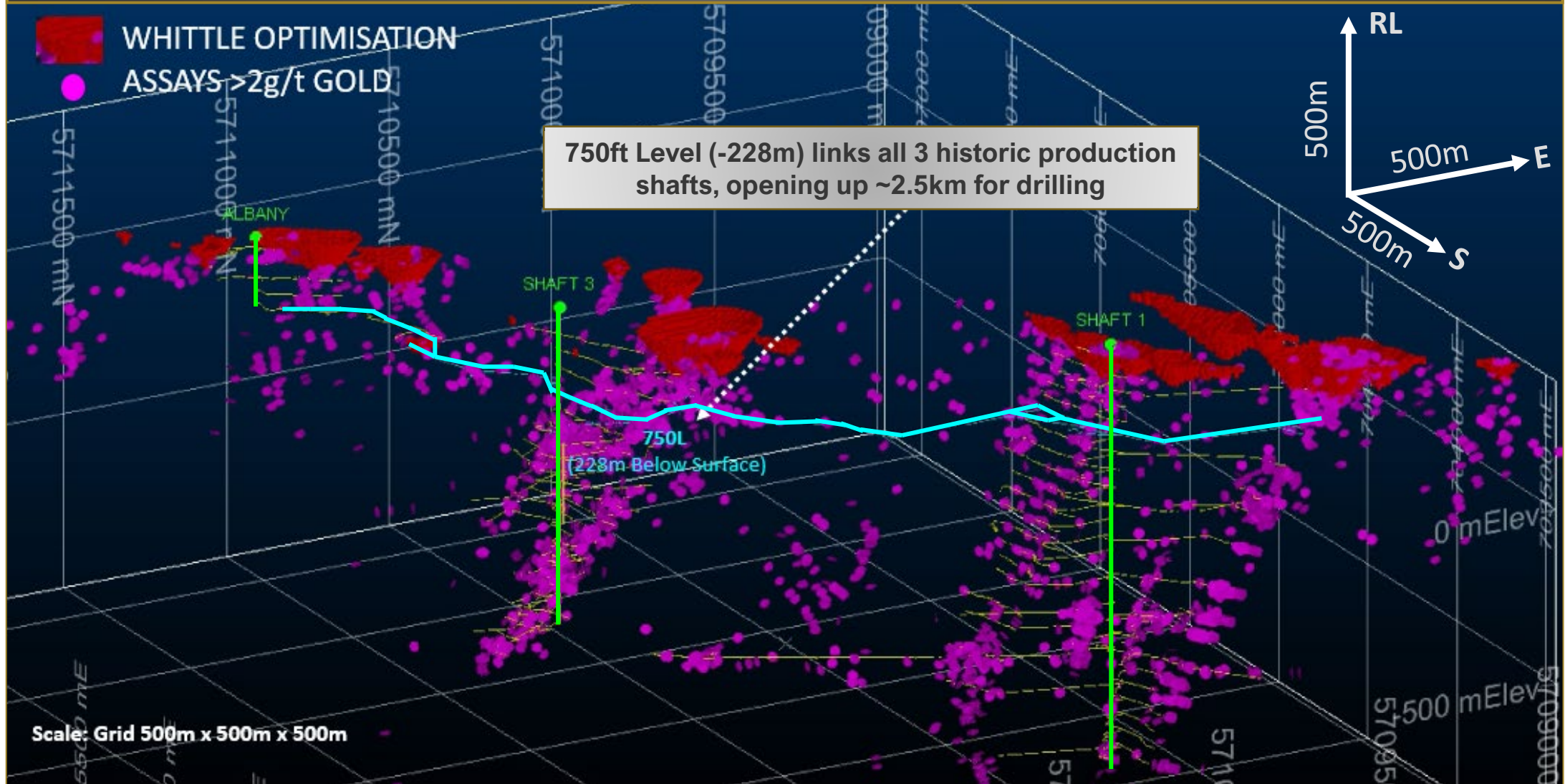
## TOP 20 RESOURCES<sup>4</sup> BY GRADE FOR +2MOZ DEPOSITS IN CANADA, USA & AUSTRALIA



There are **139 Resources<sup>5</sup>** (excl. RSV) **+2Moz** in Tier 1 locations. Only **18** have grade **>4g/t**

## RESOURCE CONVERSION – ADVANCING TOWARD PRODUCTION

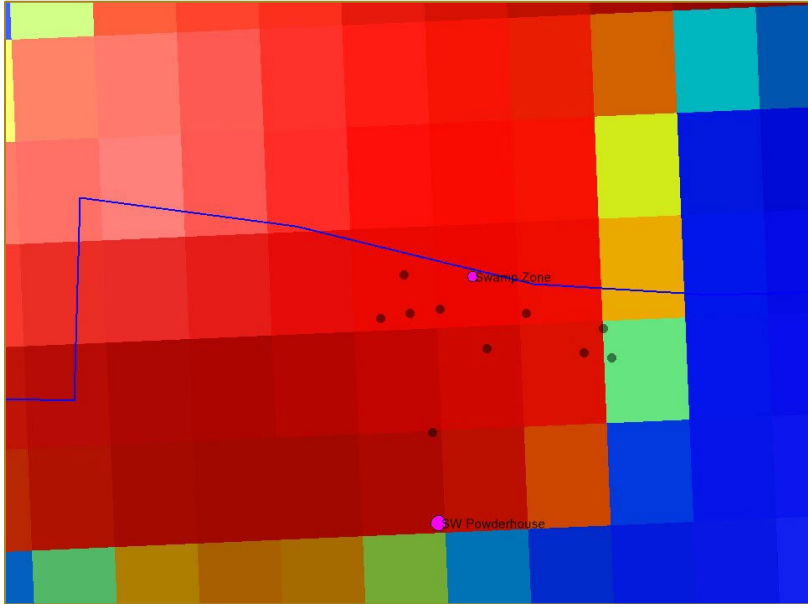
## INITIAL PIT CONCEPT TO RE-ESTABLISH UG ACCESS



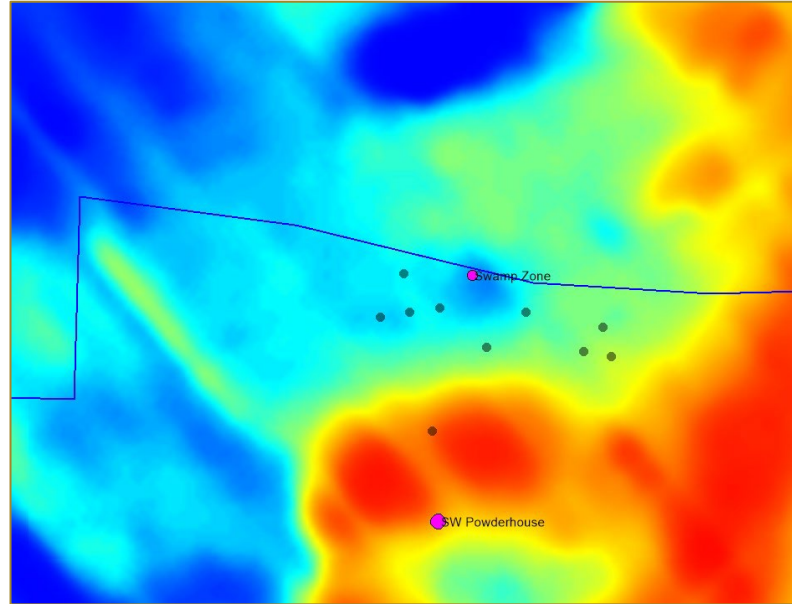
# REGIONAL EXPLORATION

Using cutting edge modern technology to see below the surface

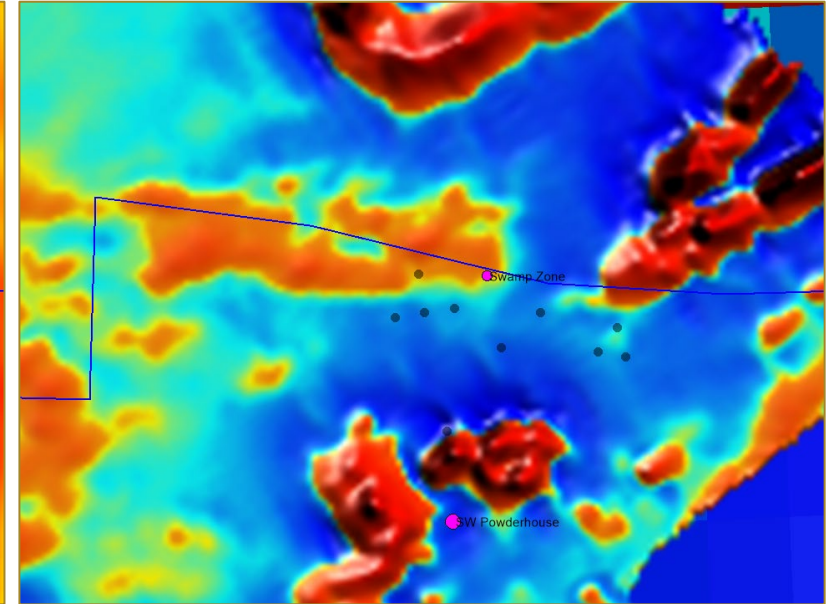
ONTARIO GEOLOGICAL SURVEY  
STATEWIDE MAGNETICS



PC GOLD AEROMAGNETICS  
(2010)



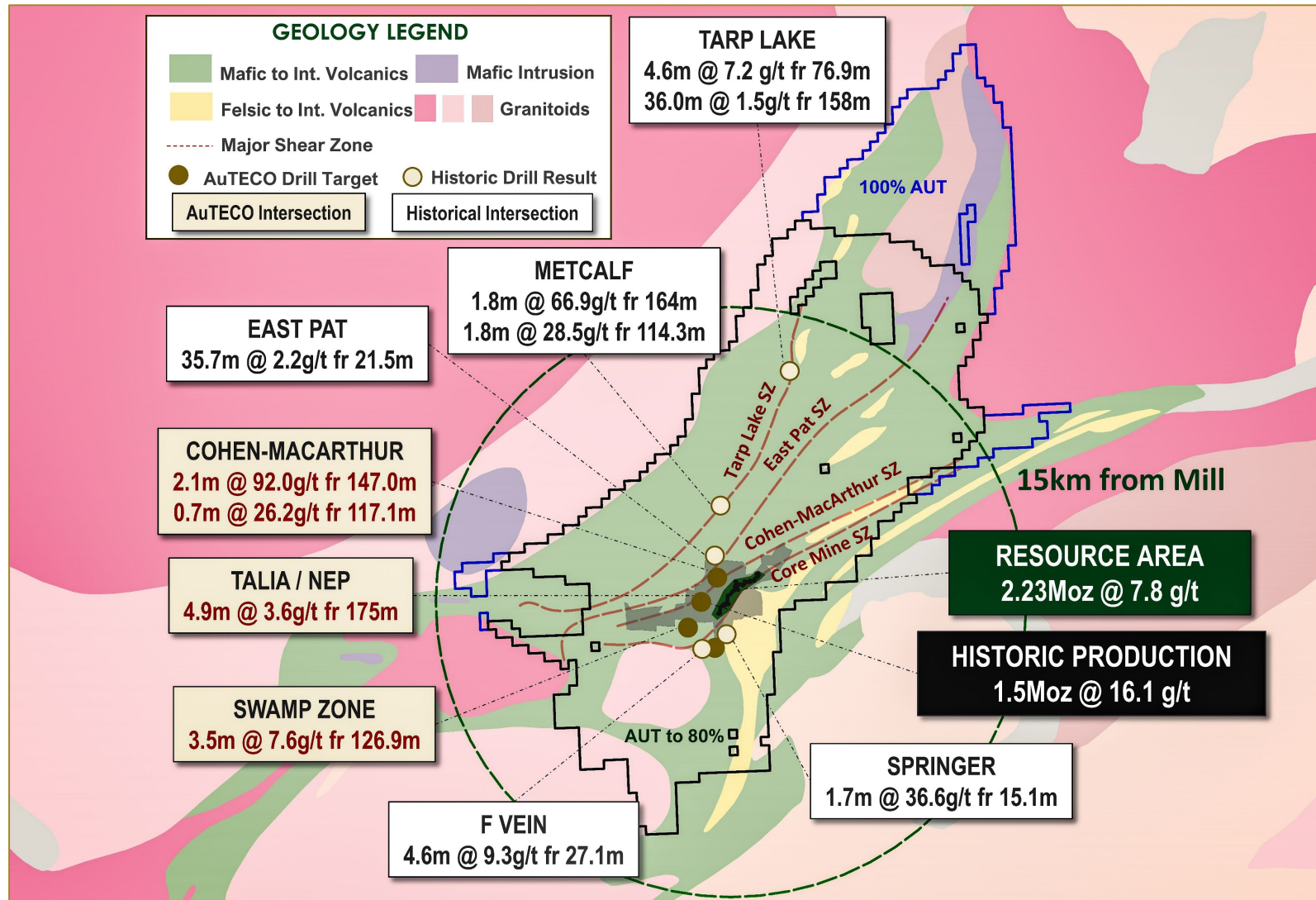
AuTECO DRONE MAGNETICS  
(2021)



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

# AUTECO HAS AN ENTIRE MINERAL DISTRICT

The bigger picture beyond the Pickle Crow Deposit



INITIAL RESULTS  
INDICATE STRONG  
POTENTIAL FOR  
SIGNIFICANT  
DISCOVERIES



# 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**



**LOCATION**

**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)



**THE ASSET**

**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



**UPSIDE**

**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



**CORPORATE & TEAM**

**Well funded to deliver with a quality experienced team**

- Healthy cash balance to deliver growth (\$24.5M at 31 Mar 2022)
- 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