



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

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

RIU  
**Explorers  
Conference**

DARREN COOKE

CHIEF OPERATING OFFICER

15 FEBRUARY 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.

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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.



# INTRODUCTION TO AuTECO

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

## Asset & Location

**Tier 1 Location** and an asset with a long history of **high-grade** production **1.5Moz @ 16.1gpt gold** between 1935 & 1966

## Rapid Low-Cost Growth

The Resource stands at **2.23Moz at 7.8g/t. Addition of 1.23Moz** of Resource in just **16 months** at a cost of **A\$17.58** per ounce

## Prospectivity

Exceptional **500km<sup>2</sup>** holding in the world-class **Uchi Belt** (Red Lake, Dixie) with **camp-scale** drill targets and exceptional **discovery potential**

## Infrastructure

Inherited infrastructure provides a **pathway to low capital start-up production** (processing plant on site, underground)

# 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	1.7B
Unlisted options & performance rights	366M
Top 20 Shareholders	60%

## SHAREHOLDER SUMMARY

Board and Management (on a fully diluted basis)	23%
Australian & Global Institutions	29%
Substantial Shareholders	
• 1832 Asset Management	9.9%
• Symorgh Investments Pty Ltd	6.1%
• Campbell Kitchener Hume & Assoc.	5.8%

Current  
Share Price<sup>1</sup>  
A\$0.097

Market  
Capitalisation<sup>1</sup>  
~A\$164M

Cash  
Position<sup>2</sup>  
~A\$10.5M



# 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.
- Executive Director of Bellevue Gold

**Michael Naylor – Non-Executive Director**



- 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 Operating Officer**



- 15 years' of experience in the resources sector, operating in Australia, Canada, Europe and Africa
- Corporate and financial management with a number of ASX listed companies active in a range of commodities, precious and base metals and industrial minerals sector, together with Directorships and Company Secretarial of unlisted entities

**Nick Katris – Chief Financial Officer and Company Secretary**

# CANADA & ONTARIO – THE INVESTMENT CASE

A true tier 1 mining location in every definition of the term

## JURISDICTION



- Canada is one of the **best mining locations globally**
- **Ontario** consistently ranks in the **top 20 states & provinces** globally in the Fraser Institute Investment Attractiveness Index
- Strong **taxation incentives** to explore (e.g., Flow Through)

## PROSPECTIVITY



- **Canada** is home to some of the **biggest** current and historical **gold deposits globally**
- Ontario hosts world-class deposits, and the Archean rocks of Ontario are **relatively under-explored** and are yielding new discoveries

## RELATIVE VALUATIONS



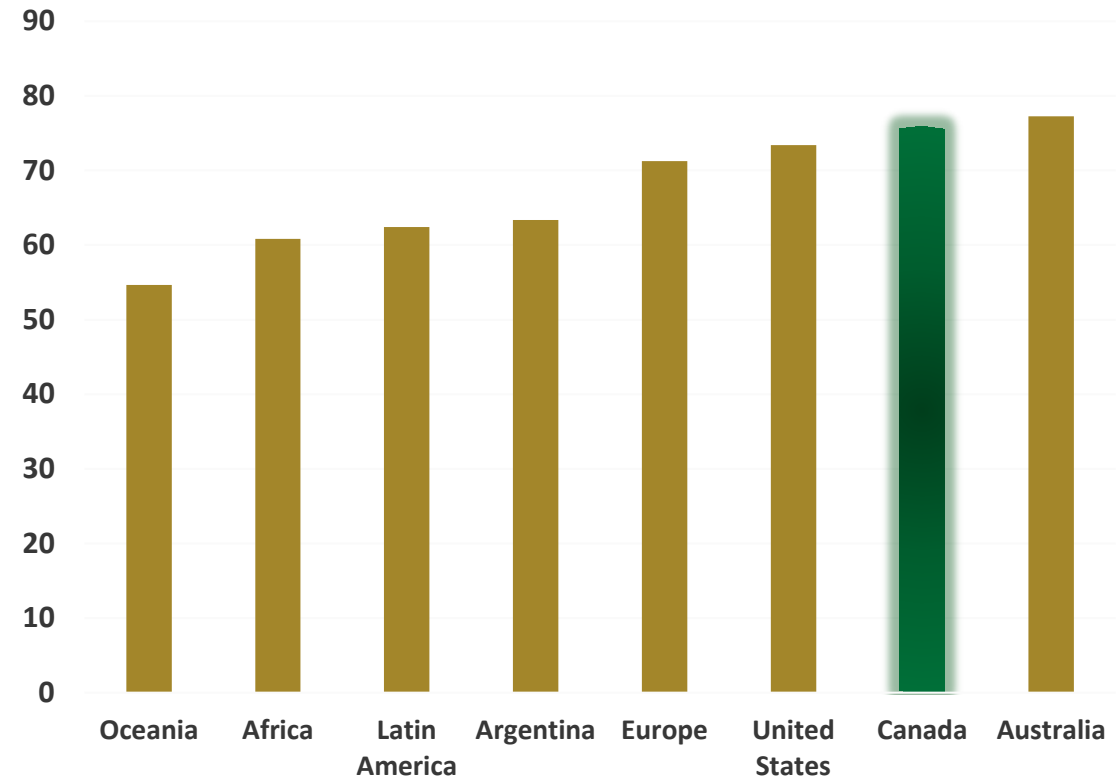
- Projects in Canada are **undervalued** relative to similar properties in Australia

## ONTARIO IS HOME TO MAJOR GLOBAL GOLD PRODUCERS

*Including Barrick, Newmont, Agnico-Eagle, Kirkland Lake, Evolution*

### Fraser Institute Survey of Mining Companies 2020<sup>3</sup>

Regional Median Overall Investment Attractiveness





# PICKLE CROW ASSET OVERVIEW

Exceptional location in a Tier 1 mining jurisdiction, Pickle Crow is an asset with a long history of producing high grade gold

## Asset Location

- **Tier 1** Jurisdiction of Ontario, Canada
- ~400km North of Thunder Bay (pop. ~110k)

## Tenure & Ownership

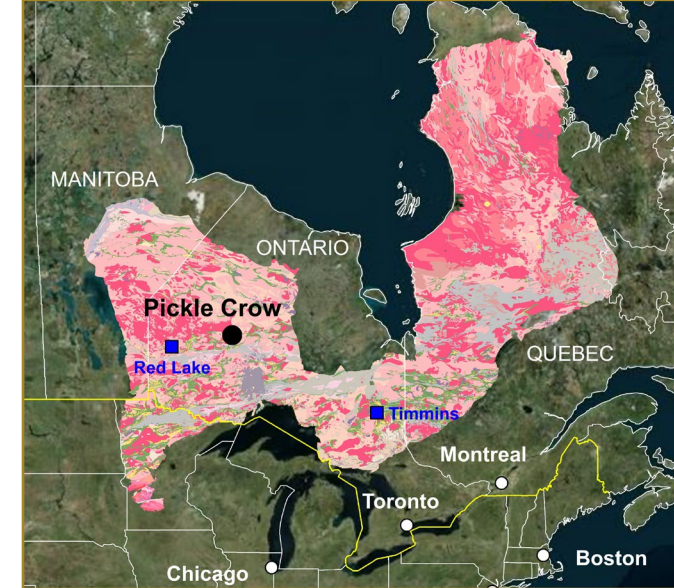
- **500km<sup>2</sup>** of tenure under management
- 70% equity, can move to **80% for C\$3M**

## Historic Mining

- Past production of **1.5Moz @ 16.1 g/t**
- Hand-held mining, 3 shafts, >40km development (1935 – 1966)

## Inferred Resource

- 8.9Mt @ **7.8g/t** for **2.23Moz** Gold
- **Remains open**



# PICKLE CROW ASSET OVERVIEW

Excellent surface infrastructure and low capex startup options provide a great foundation to build a mine



## PROCESSING PLANT

- A **225 tonne per day (80kt p.a.)** processing plant is present on site
- Built in 2004 and **never commissioned**, it consists of crushing circuit, ball mill and knelson concentrators

Photographs taken in September 2021



## HYDRO POWER GREEN ENERGY



- The **First-Nation owned Wataynikaneyap hydro** power project line runs through the Pickle Crow property
- **Ample clean energy** is available for future projects

## POTENTIAL FOR LOW CAPEX RAMP-UP

Existing infrastructure provides potential for a staged start-up and early cash-flow generation for a modest capital outlay

Ausenco

### REVIEW OF INFRASTRUCTURE November 2021

#### Scenarios Considered

**RESTART AS-IS**  
310tpd (110tpa)  
Gravity Only

**RESTART WITH CIL**  
310tpd (110tpa)  
Gravity & CIL  
CN Destruction

**UPGRADE WITH CIL**  
900tpd (315tpa)  
Gravity & CIL  
CN Destruction

**FINAL SIZE**  
**To Be Determined**

Total to be spent on processing components<sup>4</sup> **<C\$40M**

4. Results of a study completed by Ausenco for AuTECO Minerals in November 2021. The cost estimates are indicative and for scenario planning purposes only. Further work is required as the project progresses to a formal scoping study.



# 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



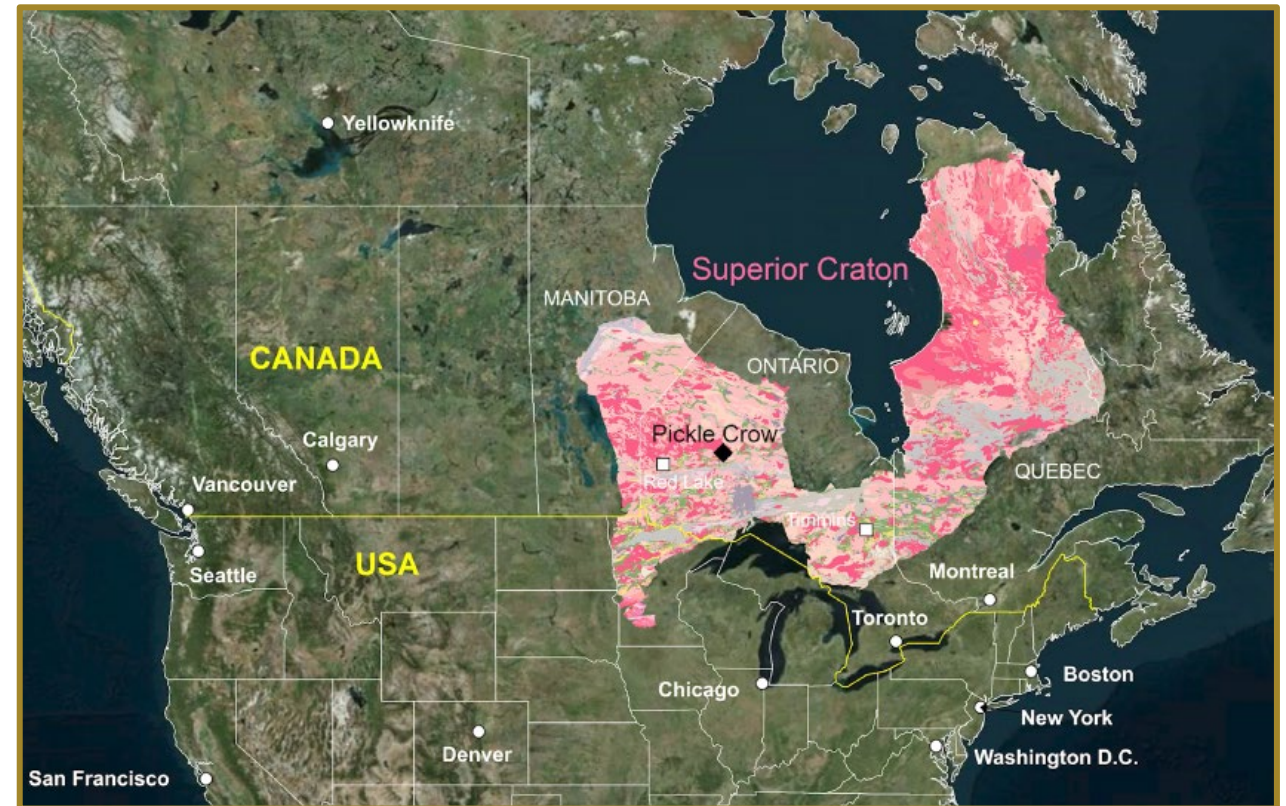
Pickle Crow  
& Central  
Patricia

## 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>5</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

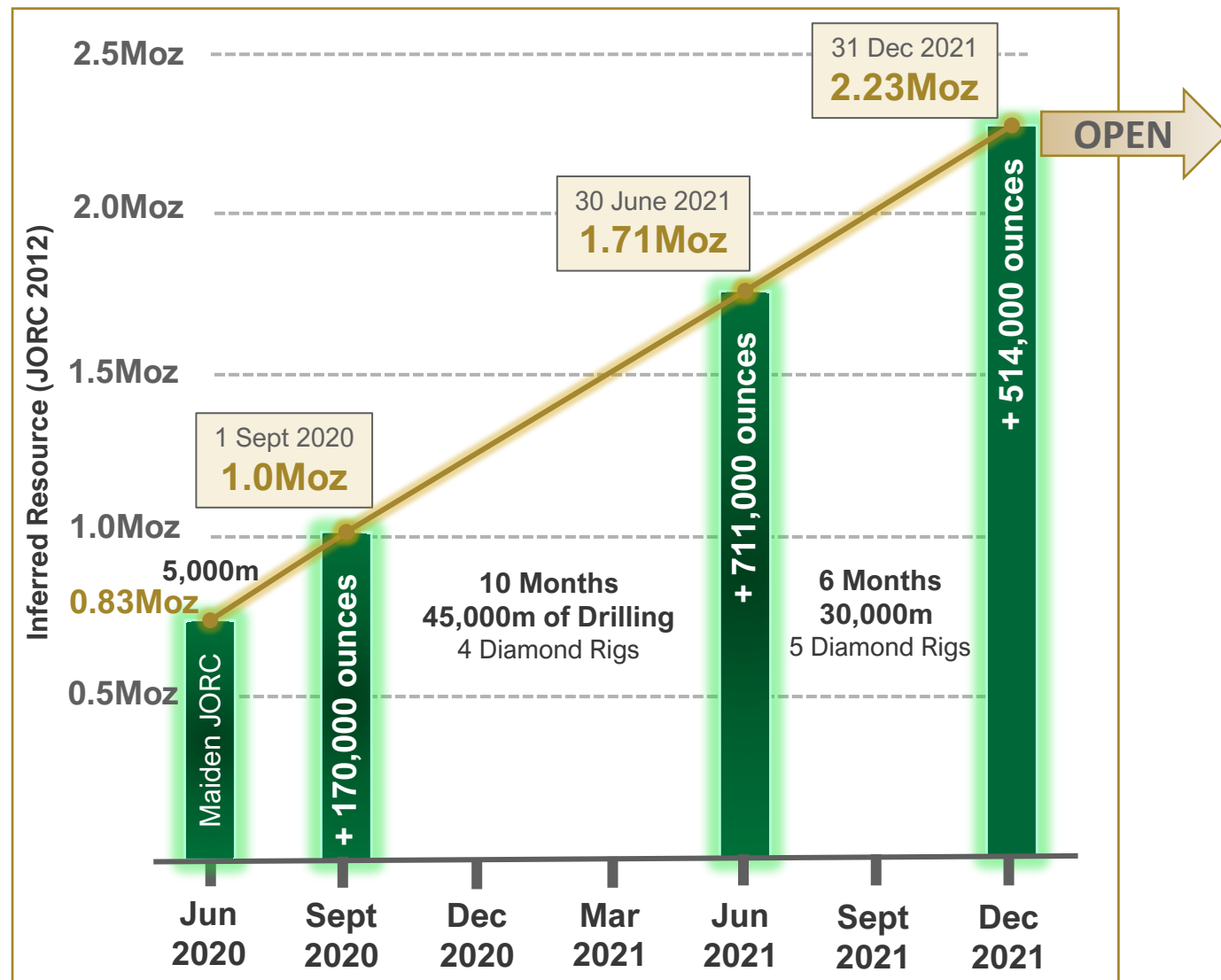
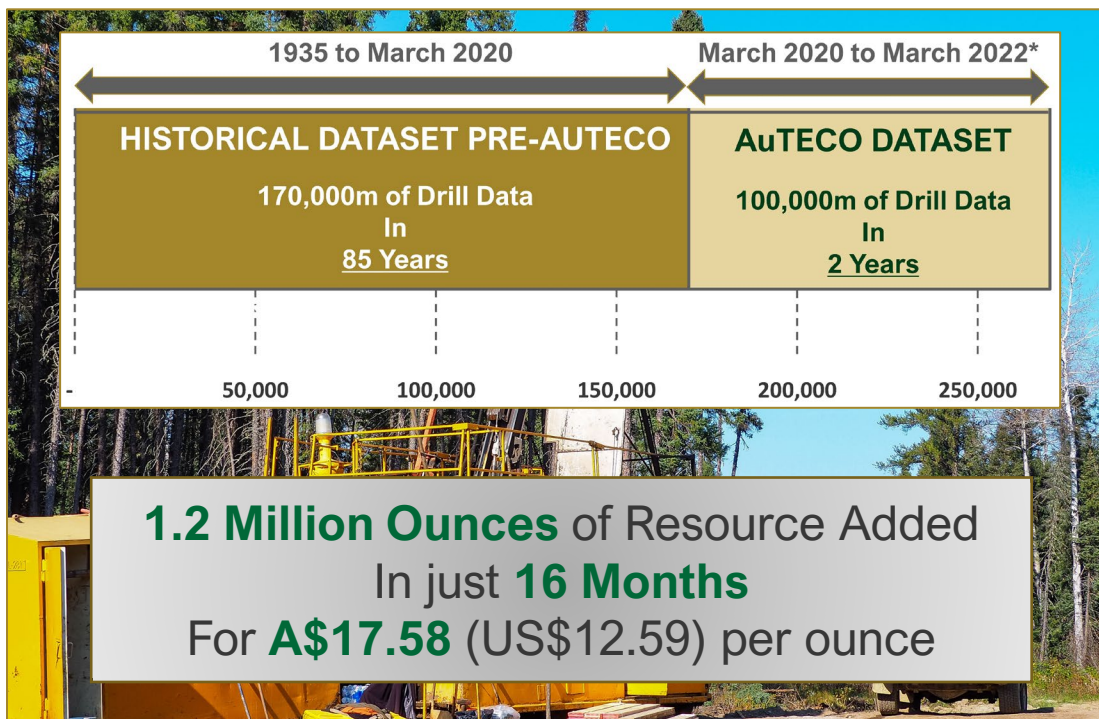


# RAPID & LOW-COST RESOURCE GROWTH

A sustained history of creating shareholder value with smart investment in the drill bit

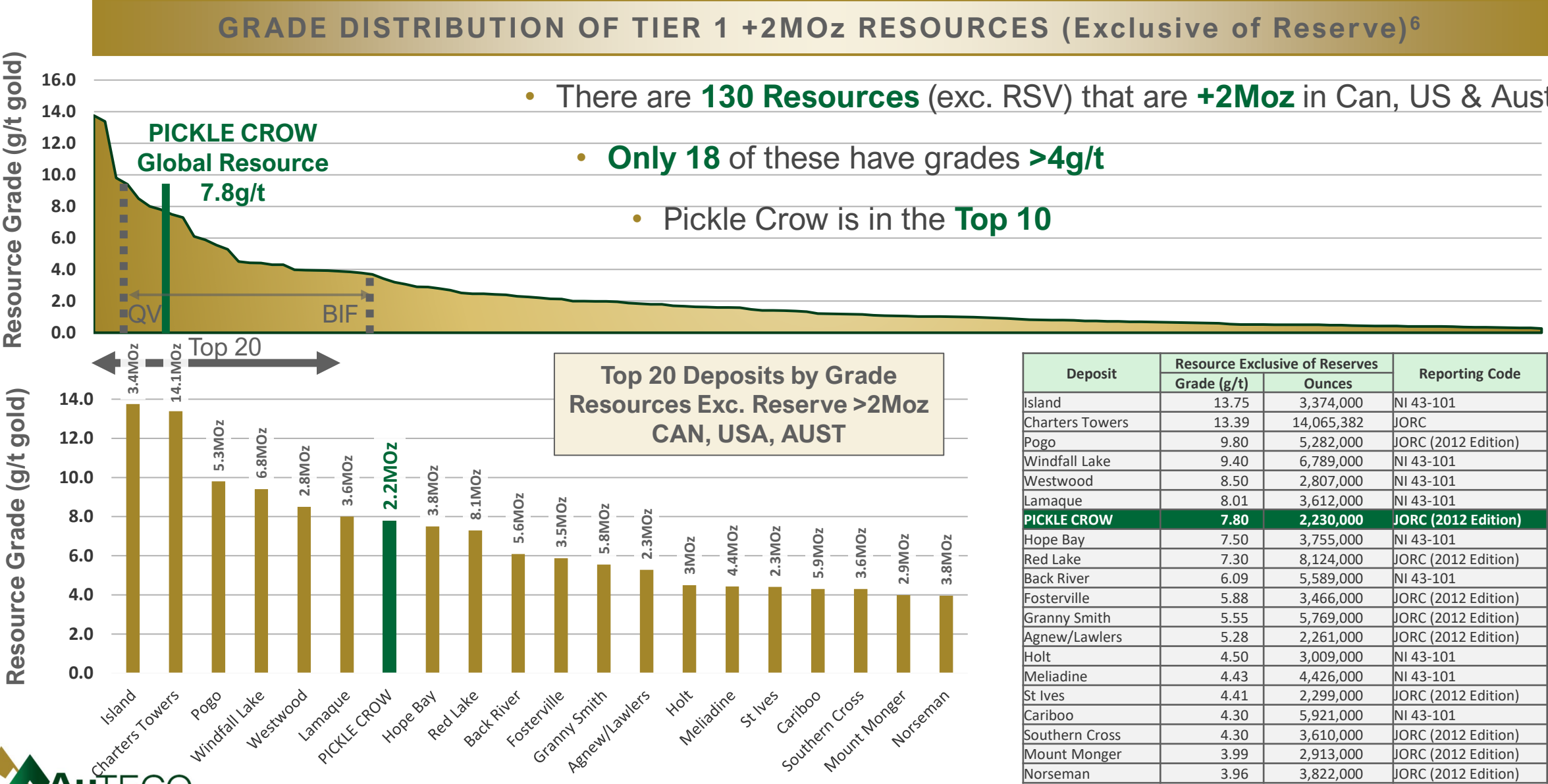
## RESOURCE ESTIMATE AT 31 DECEMBER 2021

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
<b>TOTAL</b>		<b>8.9</b>	<b>7.8</b>	<b>2.23</b>	<b>+514,000 oz (+30%)</b>





# GLOBALLY SIGNIFICANT RESOURCE GRADE



6. Source: S&P Global Dataset Resources reported exclusive of ore reserves. Please note that some of these Resources have not been prepared in accordance with the JORC Code (2012 Edition) and are Foreign Estimates prepared in accordance with the Canadian National Instrument 43-101

# EXPLORATION & GROWTH

Exceptional progress across all areas of the project pipeline in 2021, setting the platform for 2022

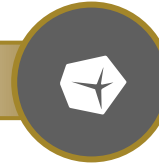
## OBJECTIVES

### GENERATIVE



- Mapping and reconnaissance rock chip sampling conducted South of the Resource area
- Ground magnetic survey continue

### DISCOVERY



- First-pass drill testing of conceptual targets in the northern near-mine area
- Additional testing at Tyson discovery

### RESOURCE GROWTH



- Continued step out and exploration in the near mine area
- Drilling to extend Inferred Resource
- Determine 'size of the prize'

## RESULTS

### 2021 Work Program

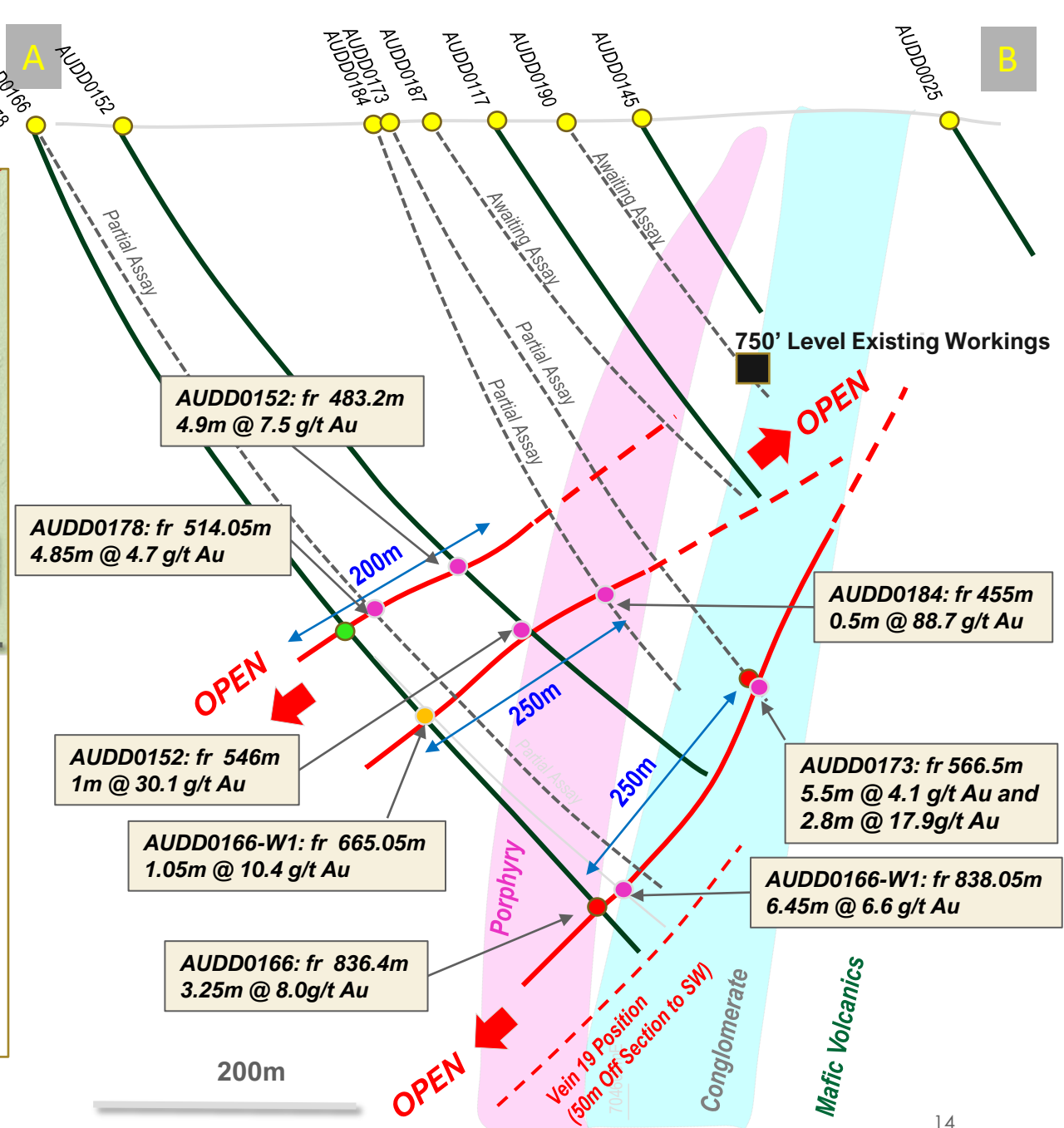
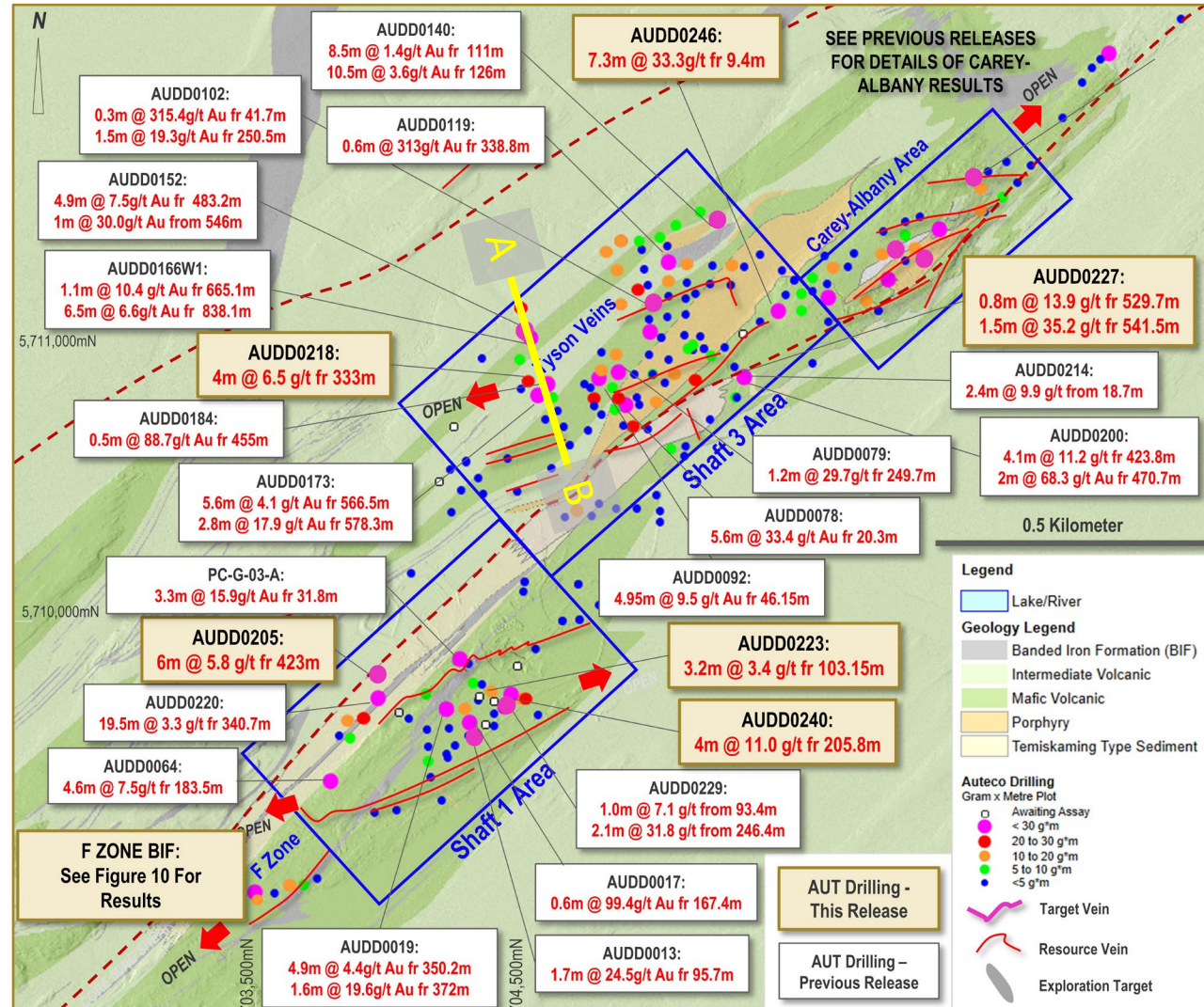
- Numerous **outcropping veins** traced and mapped at Springer prospect
- Rock chip samples include:
  - **145.7 g/t gold**
  - **6.2 g/t gold**
  - **5.7 g/t gold**
- Ground magnetics identified multiple structural offsets and **demagnetised zones**

- **New Mineralised BIF Zones**
- **Discovery of the Carey and now Tyson zones,**
- Assays from Carey include:
  - **20.4m @ 5.3 g/t gold**
  - **13.8m @ 2.0 g/t gold**
  - **16.5m @ 2.2 g/t gold**
  - **6.5m @ 4.6 g/t gold**
- Assays from Tyson include:
  - **2.8m @ 17.9 g/t gold**
  - **1.0m @ 30.1 g/t gold**
  - **5.5m @ 4.1 g/t gold**

- **RESOURCE UPDATE – 2.23Moz**
- **Discovery of new structure**
- **Extensions of known veins**
- The following results were received after the data cut-off for the current Resource and will contribute to future updates:
  - **7.3m @ 33.3 g/t gold**
  - **1.5m @ 35.2 g/t gold**
  - **4.0m @ 11.0 g/t gold**
  - **6.0m @ 5.8 g/t gold**
  - **25.2m @ 1.6 g/t gold**

# THE TYSON DISCOVERY

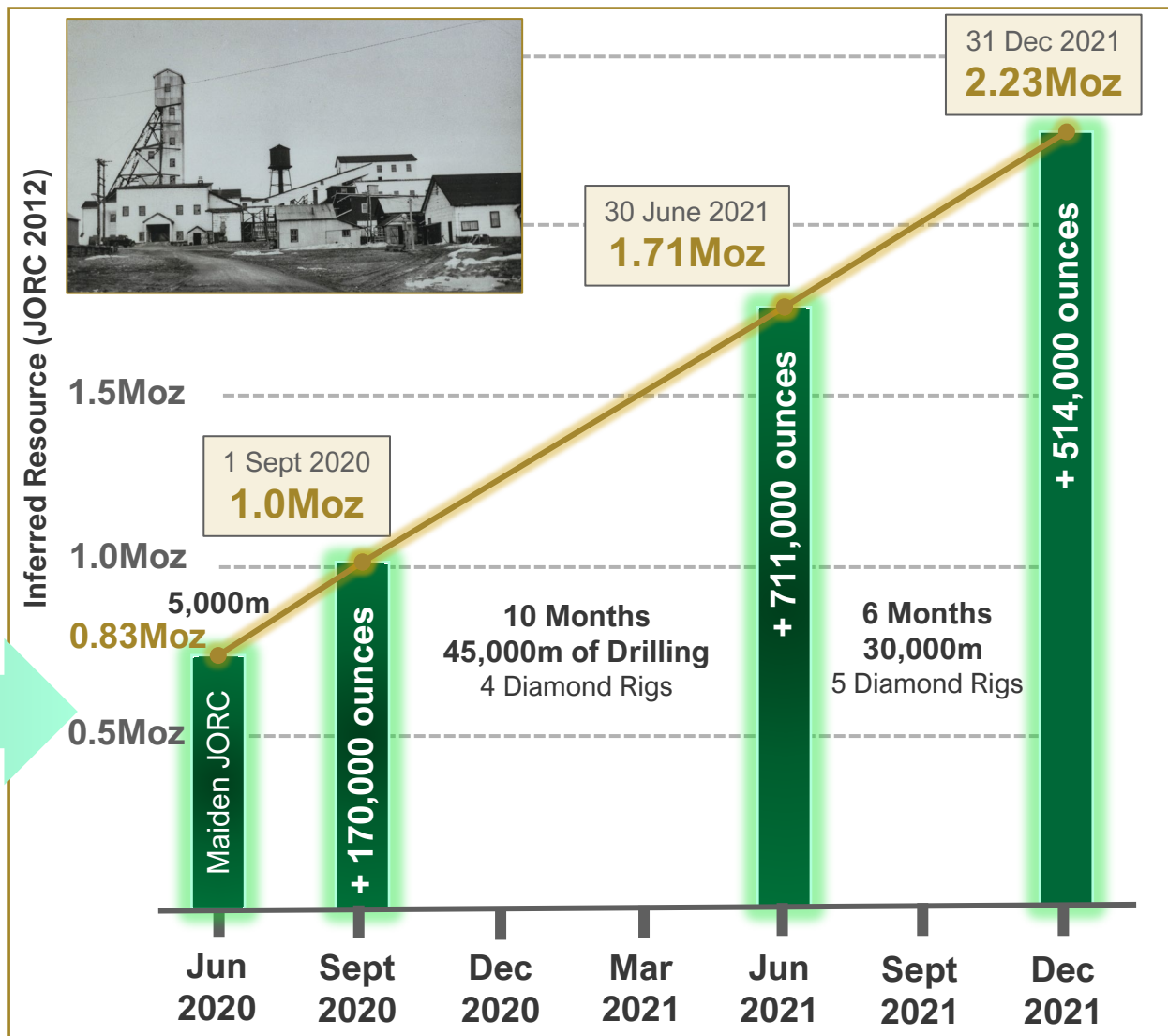
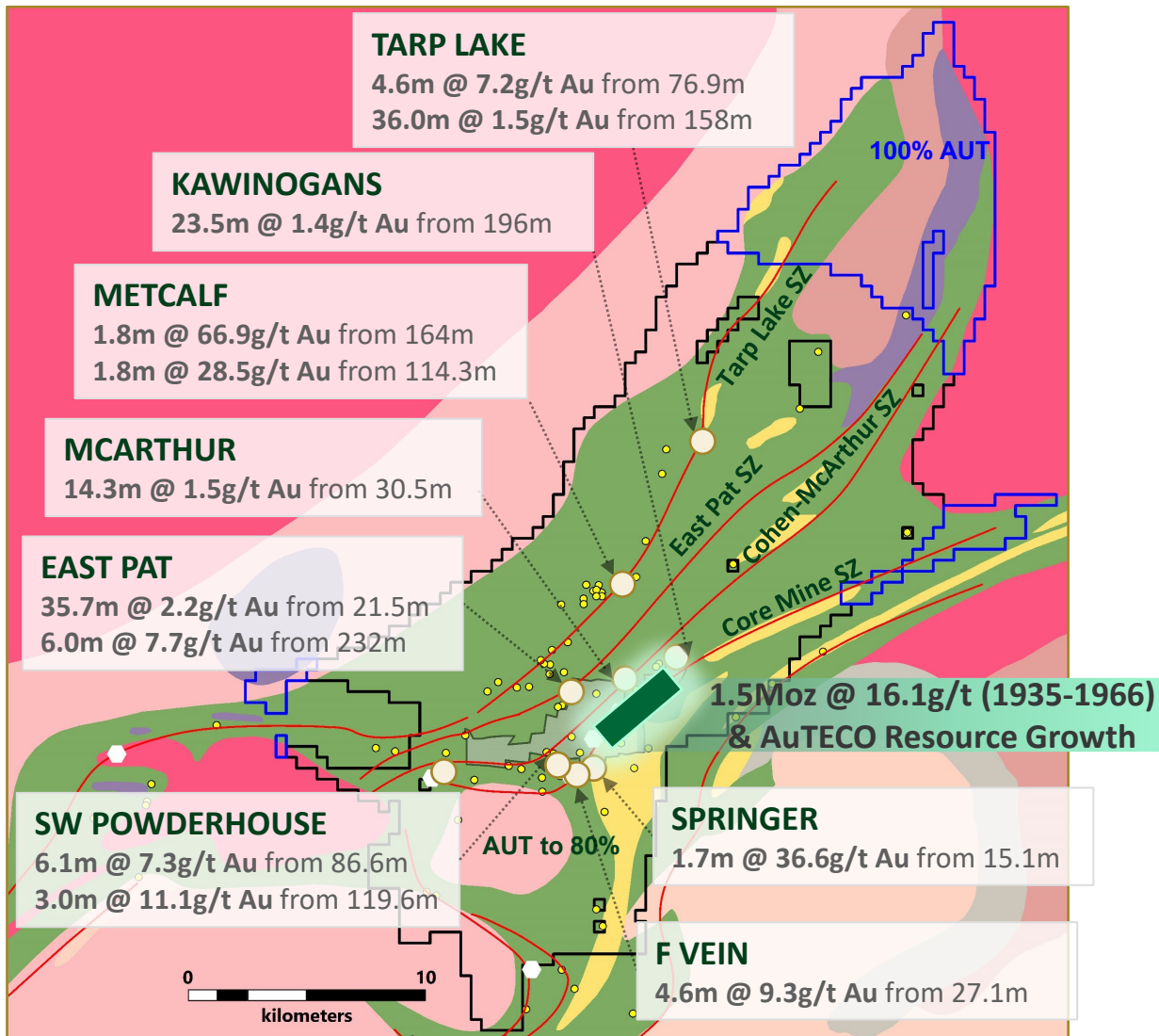
A new vein system that breaks the paradigm





# EXCEPTIONAL GROWTH POTENTIAL BEYOND THE RESOURCE

Only a fraction of the camp-scale potential has been adequately tested



# FORWARD WORK PLAN

Continuing to advance and grow Pickle Crow at all levels



## Pathway to Production

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

### KEY OBJECTIVES (Jan-July 2022)

- Continue permitting to Advanced Exp
- Option study to access UG for infill drilling
- Conduct Whittle opti's to assess pit potential



## Resource Growth

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

- 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)



## Exploration & Drilling

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

- Complete the 50,000m drill campaign
- Continue with BIF exploration to define size
- Continue vein exploration
- Test >5 regional targets outside of mine area

# 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 (\$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





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# APPENDICIES – PICKLE CROW ACQUISITION

Earn up to 80% - First Mining Gold Inc.

## Earn-in Details<sup>7</sup>:

### COMMENCEMENT (0%):

Auteco paid C\$50,000 to First Mining (TSX: FF) on signing binding term sheet. Upon signing the formal agreement:

- A further C\$50,000; and
- 25,000,000 Shares in the capital of Auteco (issued 23<sup>rd</sup> April 2020)



### STAGE 1 EARN-IN (51%):

- Spending C\$5,000,000 over three years comprising:
- C\$750,000 within a 12-month period (Expenditure Payment 1);
- C\$4,250,000 within a 24-month period after Expenditure Payment 1 is satisfied; and
- Subject to shareholder approval, Auteco will issue First Mining 100,000,000 Shares.



### STAGE 2 EARN-IN (UP TO 70%):

- Auteco to spend a further C\$5,000,000 in 2 years after satisfaction of Stage 1 Earn-in (Expenditure Payment 3); and
- Cash payment of C\$1,000,000 in 90 days of completing expenditure Payment 3 (Expenditure Payment 4).



### BUY IN (TO 80%):

- Auteco may buy a further 10% interest by paying C\$3,000,000 to First Mining; and
- Auteco will grant First Mining a 2% NSR granted after the Stage 2 Earn-In. Auteco has the right to purchase back 1% of the NSR for US\$2,500,000.

