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# Investor Presentation

April 2023



# Disclaimer and Forward-Looking Statements

## COMPLIANCE AND CAUTIONARY STATEMENT

### NOTES TO MINERAL RESOURCES

The Mineral Resource Estimates for the Dynasty Gold Project and Jerusalem Project are not reported in accordance with the JORC Code 2012. A competent person has not done sufficient work to classify the foreign estimate as mineral resources in accordance with the JORC Code 2012. It is uncertain that following evaluation and/or further exploration work that the foreign estimates will be able to be reported as mineral resources or ore reserves in accordance with the JORC Code 2012.

Pursuant to Listing Rule 5.13, Titan confirms that it is not in possession of any new information or data in respect to either the Dynasty Gold Project and the supporting information provided in the relevant initial Announcements (being the ASX release dated 30 April 2020 with respect to the Dynasty Gold Project) continues to apply and has not materially changed.

The Mineral Resources estimates contained herein are Canadian National Instrument 43-101 compliant resource ("NI 43-101" or "foreign") estimates.

Project	Category	Tonnes	Au	Ag	Contained Au (oz)	Contained Ag (oz)
			(g/t)	(g/t)	(000's)	(000's)
Dynasty Gold Project	Indicated	6,622,000	4.65	36	991,000	7,673,000
	Inferred	7,824,000	4.42	36	1,113,000	9,151,000

### COPPER EQUIVALENT (CU EQ) VALUES – REQUIREMENTS UNDER THE JORC CODE

Assumed commodity prices for the calculation of Copper Equivalent (Cu Eq) is Cu US\$3.00/lb, Au US\$1,700/oz, Mo US\$14/lb and Ag US\$20/oz. Recoveries are assumed from similar deposits: Cu = 85%, Au = 65%, Ag = 65%, Mo = 80%. Cu Eq (%) was calculated using the following formula:  $((Cu\% \times Cu\ price\ 1\% \text{ per tonne} \times Cu\ recovery) + (Au(g/t) \times Au\ price\ per\ g/t \times Au\ recovery) + (Mo\ ppm \times Mo\ price\ per\ g/t \times Mo\ recovery) + Ag\ ppm \times Ag\ price\ per\ g/t \times Ag\ recovery) / (Cu\ price\ 1\% \text{ per tonne} \times Cu\ recovery)$ . Cu Eq (%) = Cu (%) +  $(0.54 \times Au\ (g/t) + (0.00037 \times Mo\ (ppm)) + (0.0063 \times Ag\ (ppm)))$ . TTM confirms that it is the Company's opinion that all the elements included in the metal equivalents calculation have a reasonable potential to be recovered and sold.

### COMPETENT PERSON STATEMENT

The information in this release that relates to Exploration Results is based on information compiled by Ms Melanie Leighton, who is a Member of the Australian Institute of Geoscientists and is a Consulting Geologist. Ms Leighton has sufficient experience relevant to the style of mineralisation and type under consideration and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2012 edition of the JORC Code. Ms Leighton consents to the inclusion in the report of matters based on his information in the form and context in which it appears.

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This document contains a summary of information about Titan and its activities that is current as at the date of this document. The information in this document is general in nature and does not purport to be complete or to contain all the information which a prospective investor may require in evaluating a possible investment in Titan or that would be required in a prospectus or a product disclosure statement prepared in accordance with the Corporations Act 2001 (Cth) (Corporations Act).

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Statements contained in this document, including but not limited to those regarding the possible or assumed future costs, performance, dividends, returns, revenue, exchange rates, potential growth of Titan, industry growth or other projections and any estimated company earnings are or may be forward looking statements. Forward-looking statements can generally be identified by the use of words such as 'project', 'foresee', 'plan', 'expect', 'aim', 'intend', 'anticipate', 'believe', 'estimate', 'may', 'should', 'will' or similar expressions. These statements relate to future events and expectations and as such involve known and unknown risks and significant uncertainties, many of which are outside the control of Titan. Actual results, performance, actions and developments of Titan may differ materially from those expressed or implied by the forward-looking statements in this document.

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### ACCEPTANCE

By attending an investor presentation or briefing, or accepting, accessing or reviewing this document you acknowledge and agree to the "Disclaimer" as set out above.

### AUTHORISATION

Released with the authority of the board of Titan Minerals Ltd.



# Well Positioned to Create Value

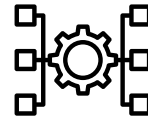
WORLD-CLASS GOLD-COPPER PORTFOLIO



**Ecuador –  
Compelling  
Prospectivity  
and Supportive  
Government**



**World-Class  
Gold-Copper  
Project  
Portfolio**



**Strong Board,  
Management &  
Technical  
Capability**



**Development  
Ready Gold  
Project  
2.1 Moz Au  
16.7 Moz Ag**



**Significant  
Value Creation  
Opportunity**

# Corporate Summary

EXPERIENCED AND SUCCESSFUL BOARD



**Peter Cook**  
**Non-Executive Chair**  
 Geologist & Mineral Economist  
 “Proven Mine and Company Builder”



**Matthew Carr**  
**Executive Director (part time)**  
 “Businessman & Project Developer”



**Barry Bourne**  
**Non-Executive Director**  
 Geologist and Geophysicist  
 “Renowned Innovator”



**Melanie Leighton**  
**Chief Executive Officer**  
 Geologist & Business Master  
 “Strong Latin American and Mineral Exploration experience”

## INTERNATIONAL CORPORATE ADVISOR



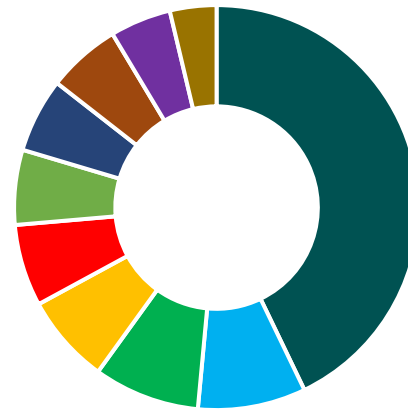
**Tamara Brown**  
 Engineer & Corporate Strategist  
 “Strong Ecuadorian and Capital markets experience”



## Capital Structure (as at Dec 31, 2022)

ASX	TTM
Share Price	A\$0.065
Common Shares O/S	1,411m
Options & Performance Rights	96.6m
Est. Cash and Receivables	A\$2.5
Market Capitalisation	~A\$92

### Top 10 Shareholders



- Private Stakeholders (Australia)
- Macquarie Group
- Tribeca Investment Partners
- Directors, Employees & Related Parties
- Private Stakeholders (Mexico)
- Synergy Capital Corp
- Private Stakeholders (USA)
- Credipresto S.A
- UBS Group AG
- Block Capital Group

# Why Ecuador?

## EMERGING TIER 1 MINING JURISDICTION

- Emerging major mineral exporter with major mining groups invested:



- Lasso government supports responsible mining with mining development considered critical to Ecuador's economic revitalization
- Mining Investment Attractiveness Index improved from 45 (2015) to 73 (2021)<sup>1</sup>
- Lowest effective tax rates and fastest permitting in Latam
- Several major projects advancing through development and into production, with 2 major mines now in full production- Fruta del Norte and Mirador
- Mining and exploration contributing significantly to taxes, employment, infrastructure and communities



# Titan Strategy

CONSIDERED, FOCUSED AND EFFECTUAL EXPLORATION



- Improve technical standards, create and integrate multi-layered digital scientific datasets to better define and prioritise targets
- Build on ESG outputs and social license to create community engagement and sustainable positive impacts
- **Unlock each project's potential by defining and drill testing high conviction targets!**



# Titan Projects

LARGE-SCALE, WELL LOCATED, COPPER-GOLD PROJECTS IN TIER 1 JURISDICTION



## Key Projects...

(ordered by advancement)

1.

### Dynasty Gold Project (100%)

- NI 43-101 Mineral Resource of **2.1Moz Au and 16.8Moz Ag**
- Large near surface epithermal gold district
- Emerging copper-gold porphyry systems

2.

### Linderos Project (100%)

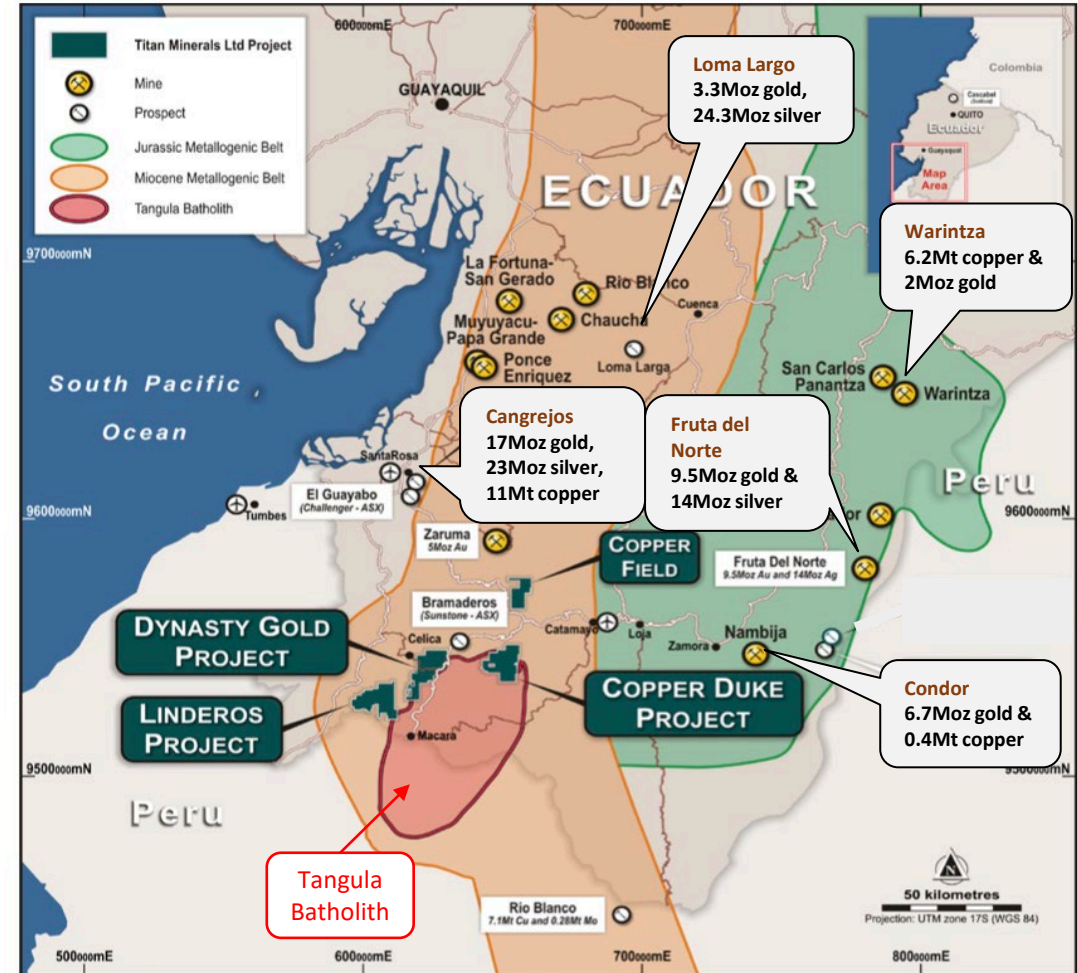
- Porphyry copper- gold and epithermal gold-silver systems confirmed by drilling

3.

### Copper Duke Project (100%)

- Evidence for epithermal gold and large-scale porphyry copper systems

Located in major flexure of Andean Terrane, within corridor of mineralisation extending from Peru to northern Ecuador, associated with Miocene aged intrusions



Projects located at the Northern contact of the Tangula batholith in the Miocene Metallogenic Belt

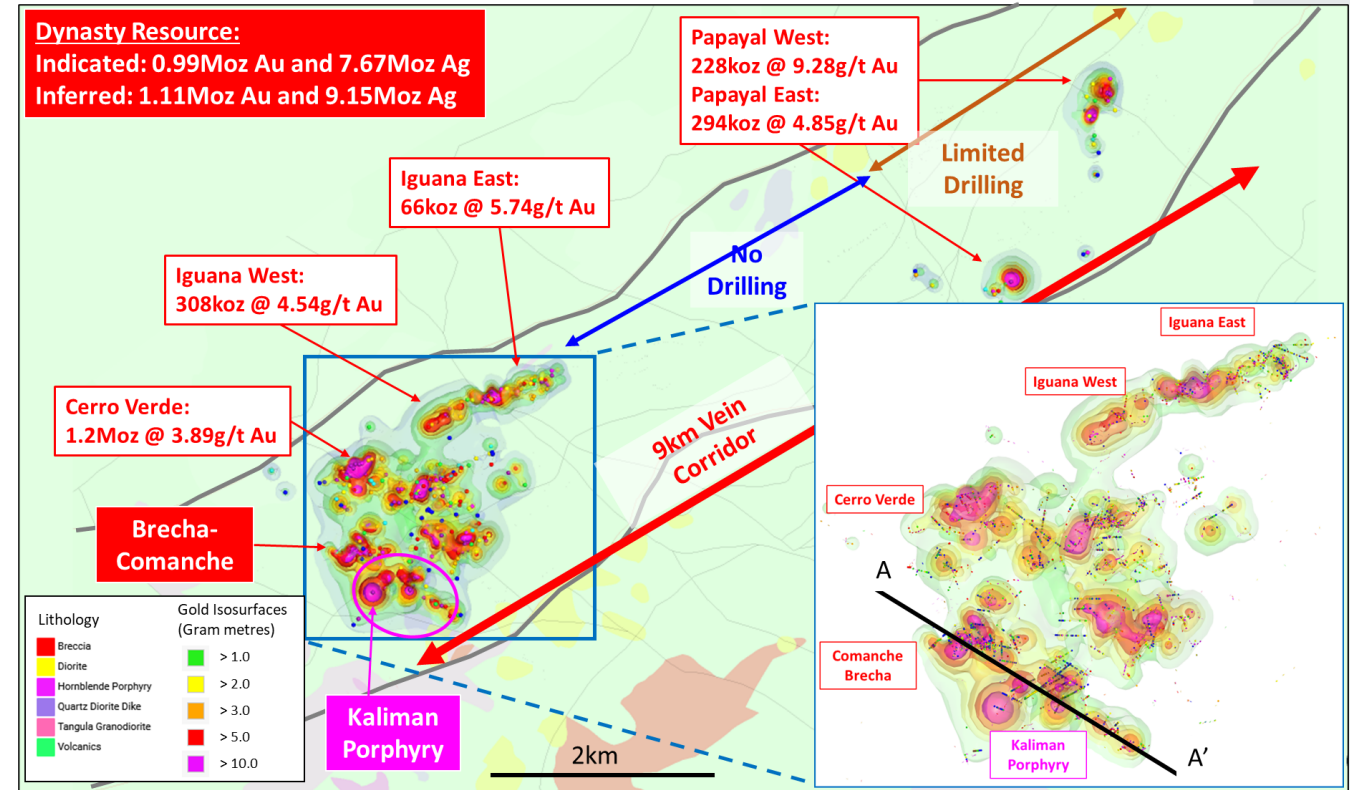
# Dynasty Gold Project

DEVELOPMENT READY HIGH GRADE GOLD PROJECT

Mineral Resource  
2.1 million oz Gold  
16.8 million oz Silver<sup>1</sup>



- NI43-101 Mineral Resource of **2.1Moz Au and 16.8Moz Ag** - **validated by trial mining** of ~600,000t @ 3.46g/t Au - 169% tonnes @ 85% grade = **40% more gold**
- 9km epithermal corridor** with intermediate sulphidation gold-silver and evidence for gold-copper porphyry mineralisation
- Significant potential remains** to extend high grade epithermal gold mineralisation- lateral and depth extensions
- Drill testing of extensional targets underway at Kaliman Porphyry and Brecha-Comanche targets**
- Mineral Resource Estimate-** multiple workstreams well advanced to facilitate JORC 2012 Resource
- Project Explorability is HIGH:**
  - 50% outcrop provides excellent exposure for exploration
  - ONLY 20%** of project explored to date!



Project	Category	Tonnes	Au	Ag	Contained Au (oz) (000's)	Contained Ag (oz) (000's)
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Dynasty Gold Project	Indicated	6,622,000	4.65	36	991,000	7,673,000
	Inferred	7,824,000	4.42	36	1,113,000	9,151,000

(1) These are total resource estimates of the zone estimated in the NI 43-101 filing of Core Gold dated May 6, 2019. They are considered a foreign resource under the ASX listing rules and are not purported to be compliant with JORC 2012.



# Dynasty Gold Project

DRILLING UNDERWAY TO TEST EPITHERMAL & PORPHYRY EXTENSIONS

Integrated geological interpretation has highlighted epithermal vein and porphyry style targets



- Drilling testing extensions to Kaliman porphyry gold-copper and Brecha-Comanche epithermal vein gold systems, three main targets being tested

## 1. Depth extensions to Brecha-Comanche, where previous drilling intersected:

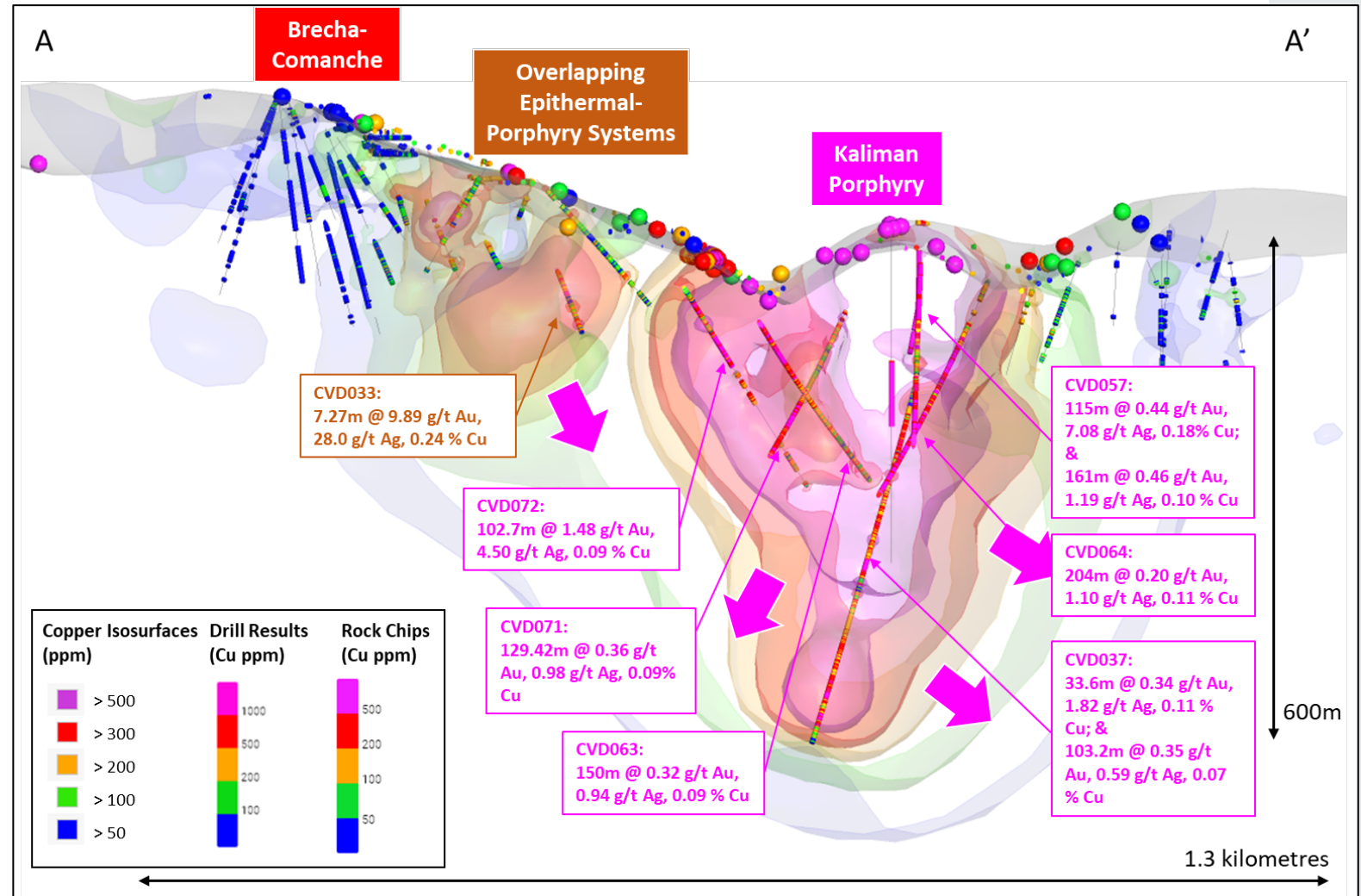
- 3.05m @ 16.48g/t Au, 61.66g/t Ag from 142.15m
- 7.07m @ 5.90g/t Au, 8.90g/t Ag from 179.93m

## 2. Extensions to Kaliman porphyry, where previous drilling intersected:

- 102.7m @ 1.48g/t Au, 4.50 g/tAg, 0.09% Cu from 46.5m

## 3. Overlapping epithermal and porphyry systems, where previous drilling intersected:

- 7.27m @ 9.89g/t Au, 28.0g/t Ag, 0.24% Cu from 118.78m



Long Section displaying drilling and copper isosurfaces

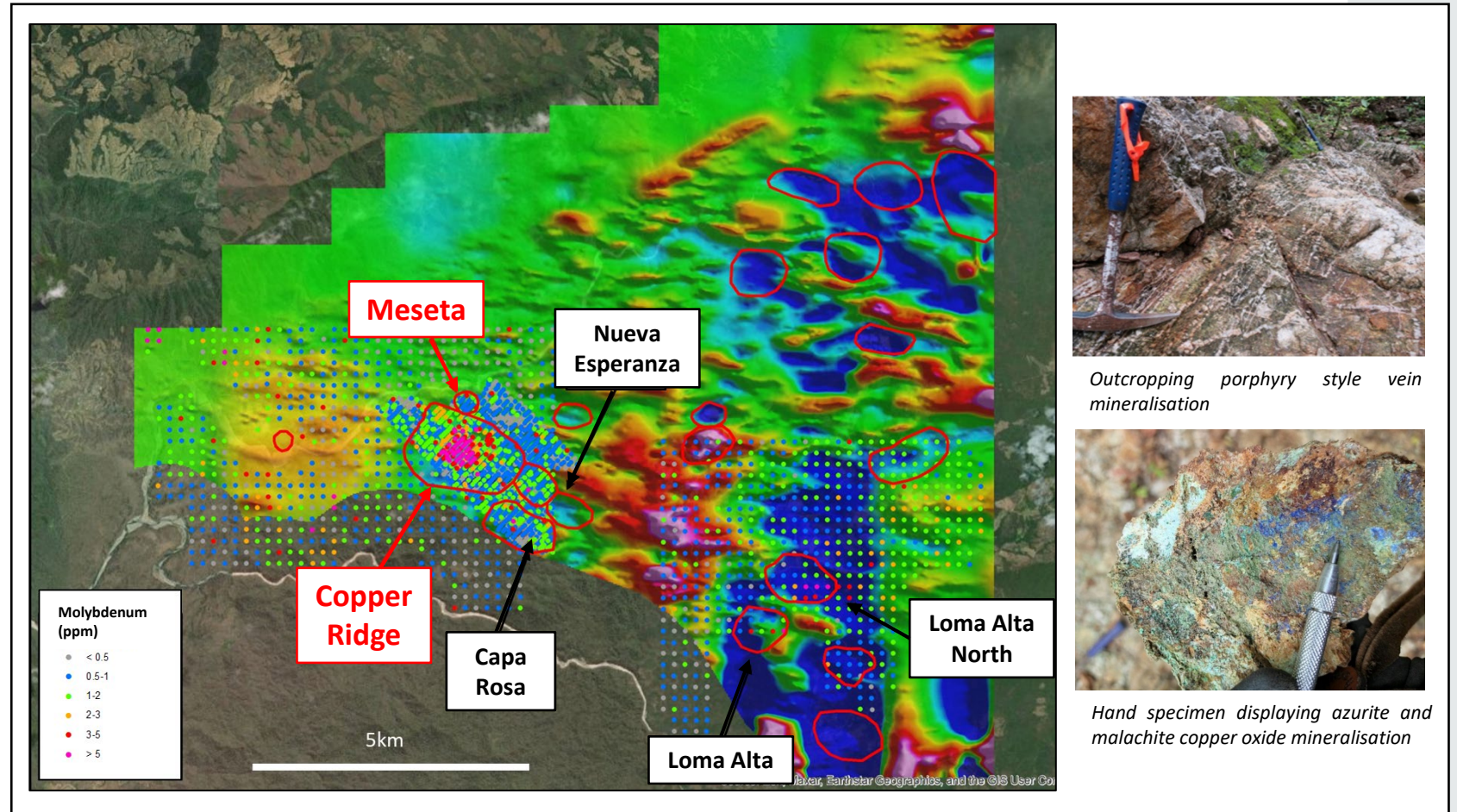
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# Linderos Project Overview

COPPER PORPHYRY AND EPITHERMAL GOLD STYLE MINERALISATION



- Largely underexplored- several prospects, but exploration primarily directed at **Copper Ridge & Meseta**
- Substantial porphyry copper-gold system at Copper Ridge **proven by drilling**
- Intermediate sulphidation epithermal gold system at Meseta- **proven by drilling**
- Intermediate sulphidation epithermal gold-silver systems at Loma Alta, Victoria and other anomalies
- Soil geochemistry indicates presence of **multiple porphyry centres** across the project
- Pipeline of high conviction targets to feature in exploration work programs in 2023



Linderos Project displaying Total Magnetic Intensity RTP, Soil Sampling (molybdenum) and Targets

# Linderos Project- Copper Ridge Prospect

MAIDEN DRILLING HIGHLIGHTS MINERALISED PORPHYRY FROM SHALLOW DEPTHS



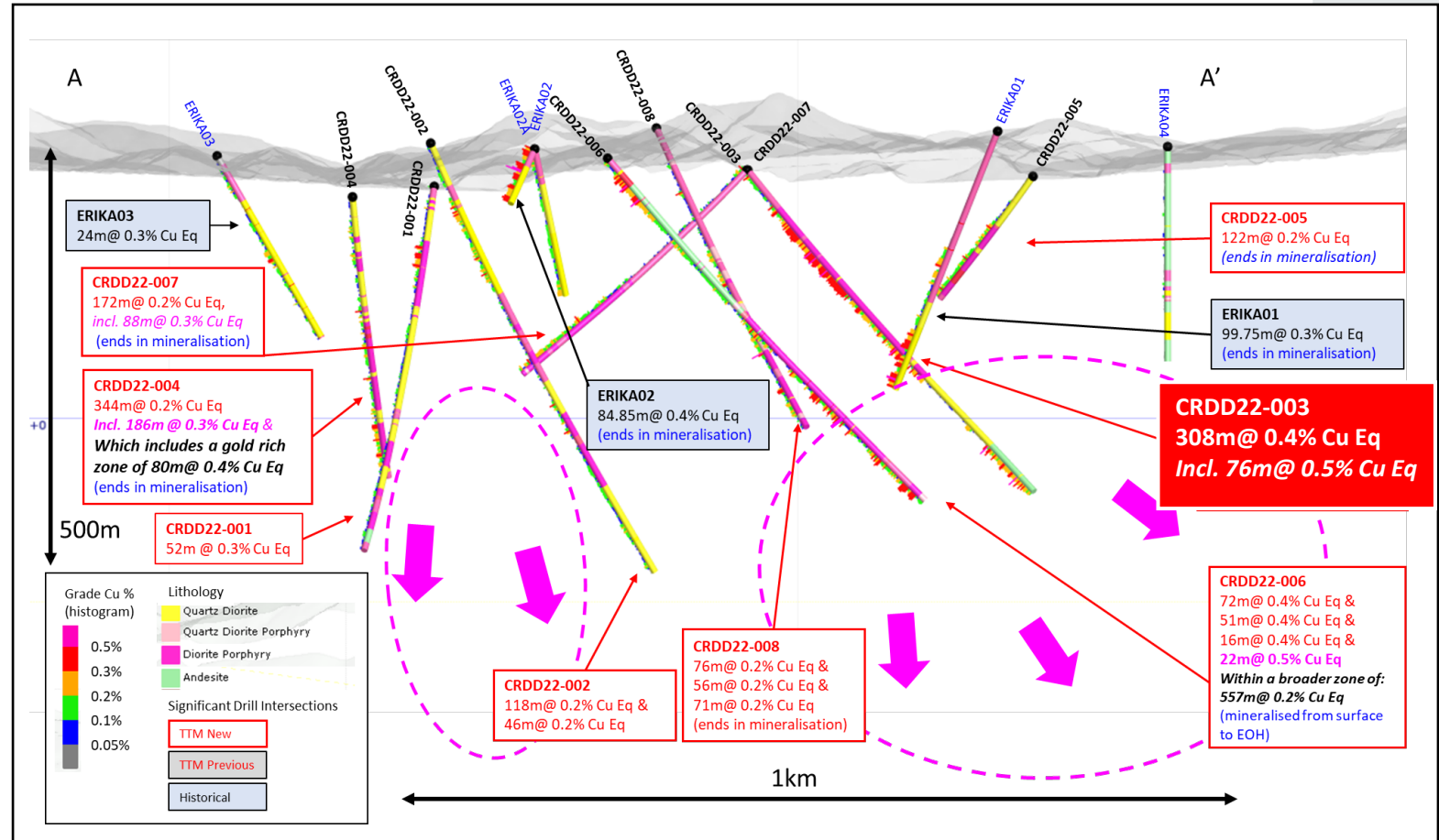
- **+1km diameter textbook porphyry signature-** central coincident Au-Cu-Mo, and distal zoned base metal anomalism

- 8 diamond holes drilled by Titan to test Copper Ridge porphyry to 500m vertical

- Wide intervals of mineralised copper-molybdenum ± gold ± silver porphyry intersected from shallow depths- **6 out of 8 holes ended in mineralisation**

- Significant results include:

- **308m @ 0.4% Cu Eq** from 54m, including a higher-grade intercept of **76m @ 0.5% Cu Eq** from 132m; **mineralised to end of hole**
- **558m @ 0.2% Cu Eq** from surface to, including a higher-grade intercept of **72m @ 0.4% Cu Eq** from 21m; **mineralised to end of hole**



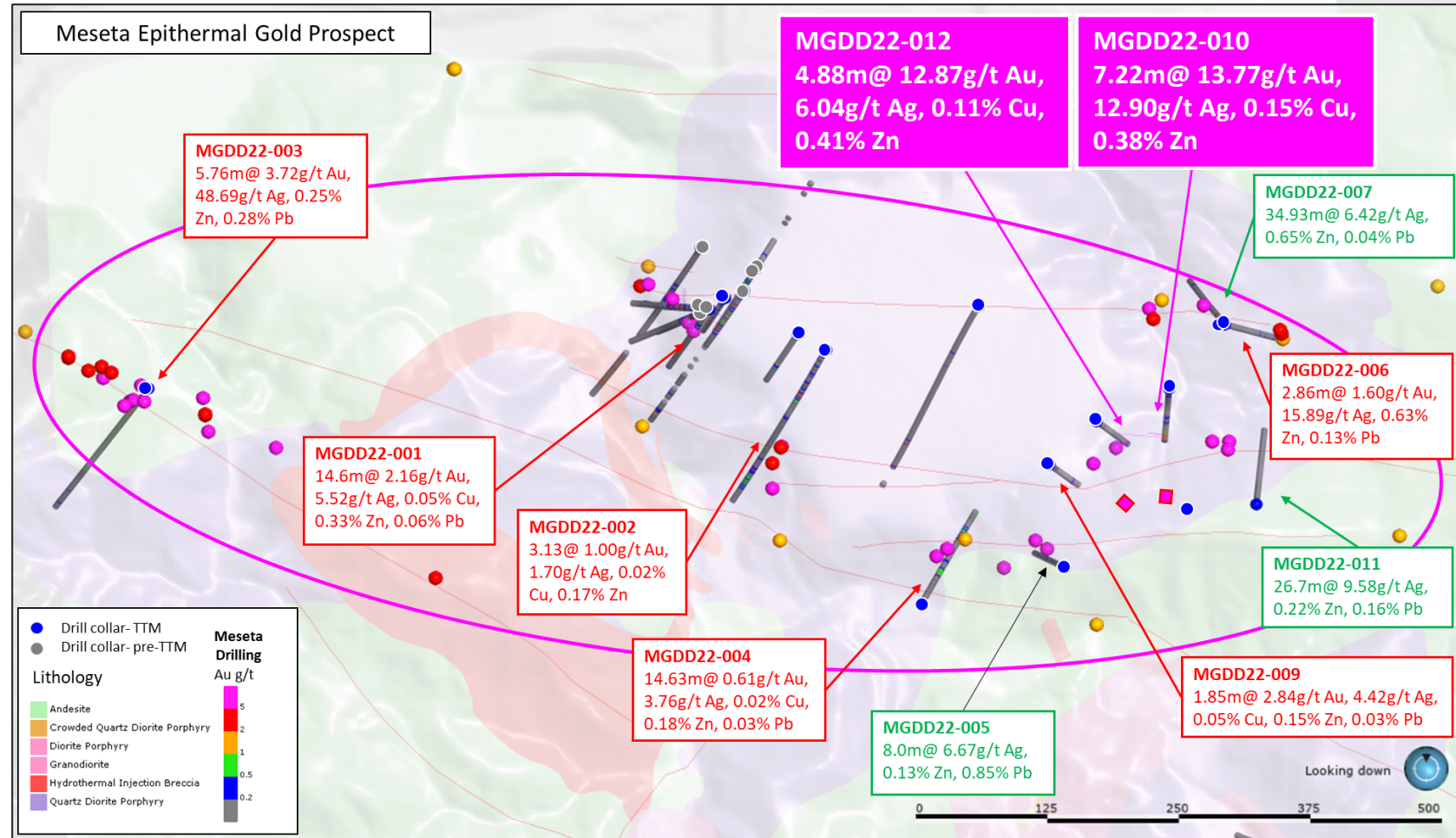
Long Section displaying drilling and porphyry extensional targets

# Linderos Project- Meseta Prospect

INTERMEDIATE SULPHIDATION SYSTEM ADJACENT TO COPPER RIDGE PORPHYRY SYSTEM



- Gold hosted in sub-vertical structures at margins of diorite porphyry stock
- Metal zonation and alteration typical of intermediate sulphidation systems related to proximal porphyry systems
- 14 holes drilled intersected multiple massive sulphide veins, with significant results including:
  - 7.22m grading 13.77g/t Au, 12.90g/t Ag, 0.15% Cu, 0.38% Zn from 66.28m**
  - 4.88m grading 12.87g/t Au, 6.04g/t Ag, 0.11% Cu, 0.41% Zn from 41.0m**
- IP geophysical survey planned for Q2 2023 to map subsurface sulphide mineralisation



# Linderos Project- Copper Ridge & Meseta

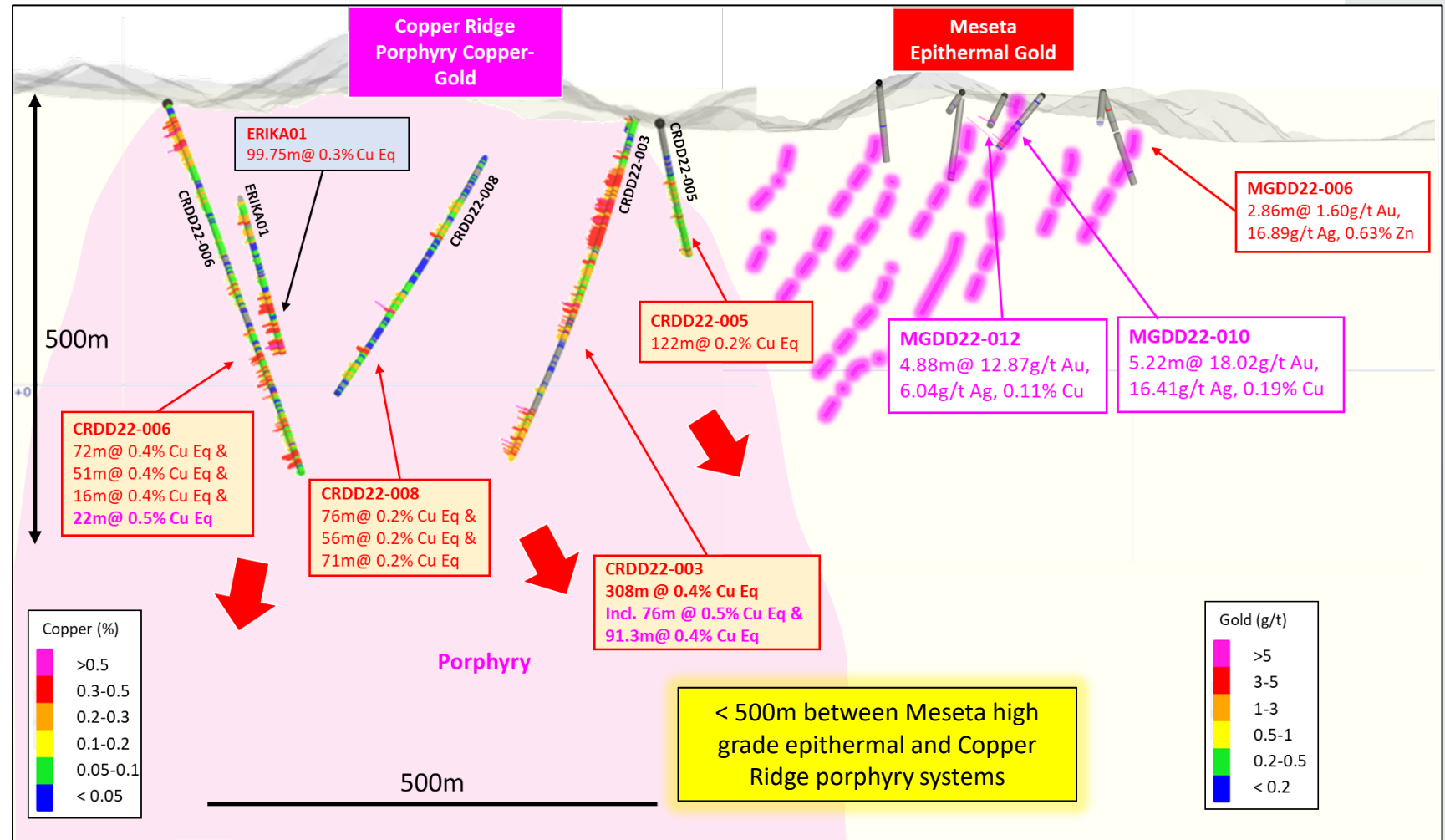
PORPHYRY & EPITHERMAL SYSTEMS LINKED



- Shallow epithermal gold system (Meseta) remains preserved, adjacent to recently discovered Copper Ridge Porphyry system

- Systems are linked- less than 500m between Copper Ridge Porphyry and Meseta epithermal gold systems

- Excellent potential for extending mineralisation with strong vectors towards higher grade gold, silver and copper mineralisation



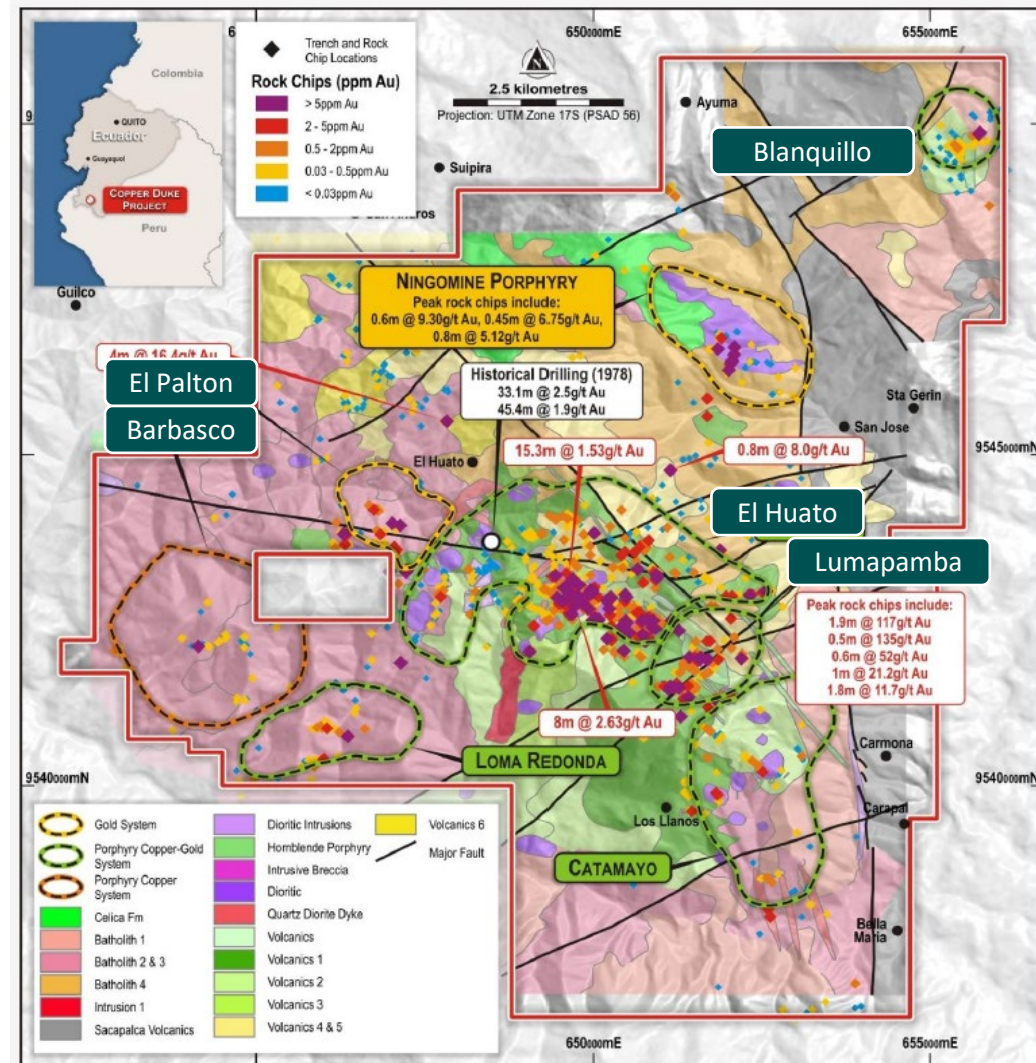
Schematic Long Section of Copper Ridge and Meseta mineral systems, drilling at Copper Ridge (histogram coloured by Cu%) and Meseta (histogram coloured by Au g/t), significant intercepts and geological interpretation

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# Copper Duke Project

LIMITED MODERN EXPLORATION PROVIDES OPPORTUNITY

- Multi-phase outcropping targets:
  - Porphyry copper-gold mineralization
  - Breccia copper mineralisation
  - Epithermal gold bearing quartz-magnetite vein system
- Geophysical survey completed in 2020 identified corridor hosting **multiple clusters of intrusive centres**
- Open-ended surface geochemistry anomalism in soil and rock sampling indicate **7km porphyry corridor** with **coincident gold, copper, molybdenum**
- **Untested by drilling- only 4 shallow holes ever drilled!**



Surface sample locations with gold assays on revised geology interpretation following interpretations of high-resolution airborne geophysics dataset

# Copper Duke Project

DATA POINTS TOWARDS TIER 1 PORPHYRY POTENTIAL!



Magnetic anomalies correspond with high-grade gold and copper geochemistry associated with porphyry style mineralisation observed at surface

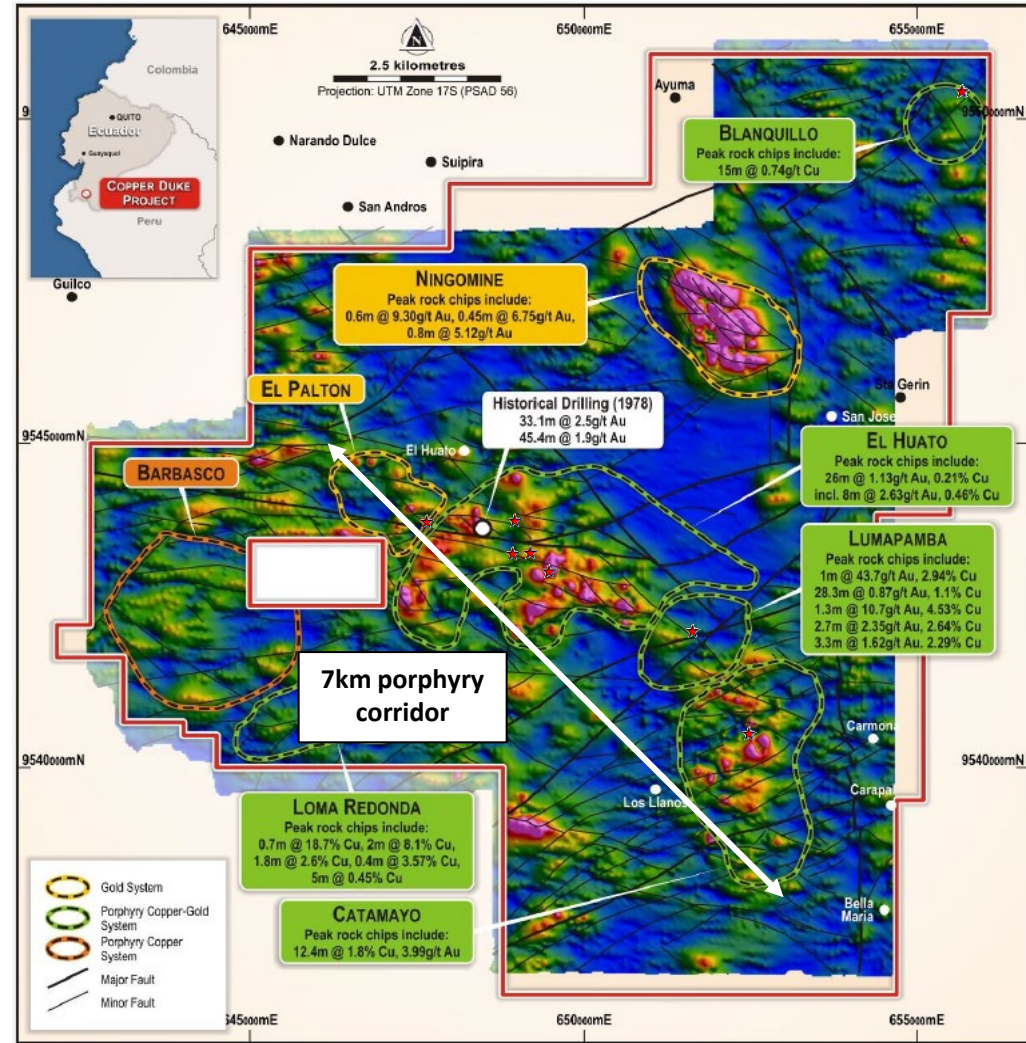
Airborne geophysical survey confirmed and extended a corridor hosting multiple clusters of intrusive centers

Clusters of intrusion related anomalism cover an area greater than 12km<sup>2</sup>

3D geophysical modelling of airborne magnetic surveys with target review and ranking is underway

Characteristics similar to many major porphyry districts in the world

Geophysical signature analogous to project such as Cerro Casale and Reko Diq



Copper Duke Total Magnetic Intensity Analytic Signal, prospects and significant results

# Copper Duke

SYSTEMATIC EXPLORATION COMPLETED AND DRILL TARGETS DEFINED

- Systematic foundation geological datasets collected across the project
- Mineralised outcrops identified:
  - Porphyry style stockwork quartz veins
  - Intrusive semi-massive sulphide breccias
  - Cu-Au bearing skarns
  - Cu bearing veins/breccias
  - Oxidised gossanous structures
  - Massive sulphide filled structures
- Channel and trench sampling completed over anomalies and areas of interest

✓ **High conviction targets ready to drill test!**

Priority targets set to be drill tested in 2023!



Barbasco 1 North Prospect: Quartz diorite porphyry with B veins



Blanquillo Prospect: Quartz diorite porphyry with B veins



Barbasco Guayacan Prospect: Quartz diorite porphyry, stockwork of B and D veins, Channel Sample HTC015: 44m@ 0.21 g/t Au and 0.18% Cu



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# Why Titan?

OUTLOOK BULLISH FOR COPPER & GOLD A SAFE HAVEN IN UNCERTAIN TIMES

- **Meaningful, large scale and high grade gold and copper projects in an emerging Tier 1 jurisdiction**
- Copper supply predicted to struggle meeting rising demand, in drive for low-carbon economy- bullish outlook for copper
- Gold sector attracting investor attention and constructive outlook for the gold price in the coming years
- Majors investing in new jurisdictions in challenge to supply metals required to shift to low-carbon economy.

“... data shows a looming mismatch between the world’s strengthened climate ambitions and the availability of critical minerals that are essential to realising those ambitions.”

*Exec Director, IEA*

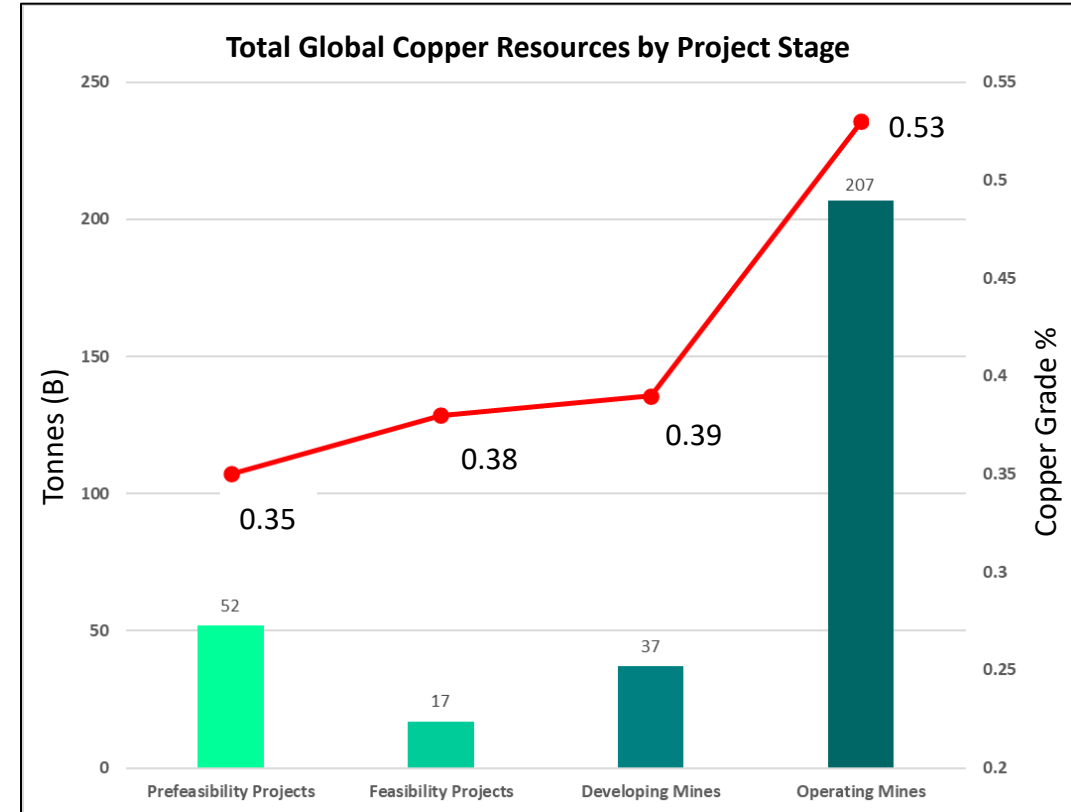


# Copper Development Pipeline

THE FUTURE LANDSCAPE IS CHANGING AT A RAPID PACE

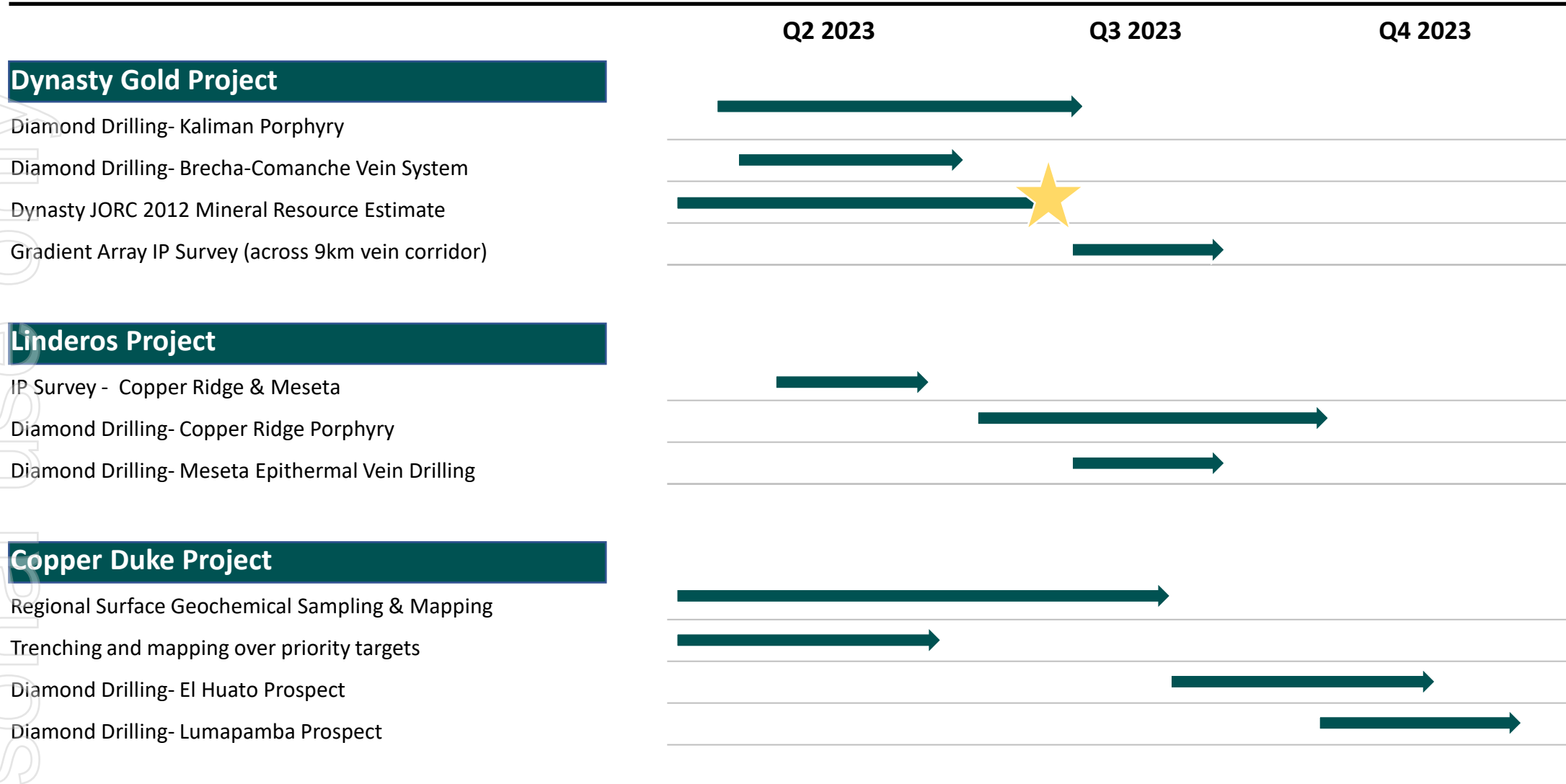
- The average age of the world's top 10 copper mines is **95 years old!!**
- Average copper grade of:
  - operating mines **0.53%**
  - projects under development **0.35-0.39%**
- Incentive price to attract investment in world's top 50 copper projects is **US\$13,000/t (~US\$5.50/lb)**
- **US\$150B investment** in development of copper projects required to meet net zero targets
- **Project development lead times long- 17 years!**
- Global copper demand forecast to be **25Mt in 2030**, implying a looming **7Mt copper deficit**
- Meeting ambitious climate goals will turbo-charge demand for minerals such as copper

Drastic change in copper pricing environment required to incentivise investment in next wave of copper projects



Source: <https://www.mining.com/copper-supply-deficit-worse-think/>  
IEA Analysis based on S&P Global (2019a) and Schodde (2017).

# NEXT STEPS & MILESTONES



# Investment Synopsis

WELL POSITIONED TO CREATE VALUE





- Excellent projects in Tier 1 Jurisdiction with exposure to high grade gold and large-scale copper
- Management and technical capability established to unlock project value
- +2Moz gold resource already defined with potential to substantially grow
- Excellent chance for significant porphyry-copper-gold discoveries with high conviction targets defined and ready to drill in 2023
- Opportunities to farm-out to expedite progress and create wealth- significant inbound interest





THANK YOU

-  @titanminerals
-  info@titanminerals.com.au
-  +61 8 6375 2700

### Key Contacts

Investor Relations:

Australia: [melanie@titanminerals.com.au](mailto:melanie@titanminerals.com.au)

