

titanminerals.com.au ASX: TTM

Disclaimer and Forward-Looking Statements

COMPLIANCE AND CAUTIONARY STATEMENT



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% x Cu price 1% per tonne x Cu recovery) + (Au(g/t) x Au price per g/t x Au recovery) + (Mo ppm x Mo price per g/t

- x Mo recovery) + Ag ppm x Ag price per g/t x Ag recovery) / (Cu price 1% per tonne x Cu recovery). Cu Eq (%) = Cu (%) + (0.54 x Au (g/t))
- + (0.00037 x Mo (ppm)) + (0.0063 x 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.

SUMMARY INFORMATION

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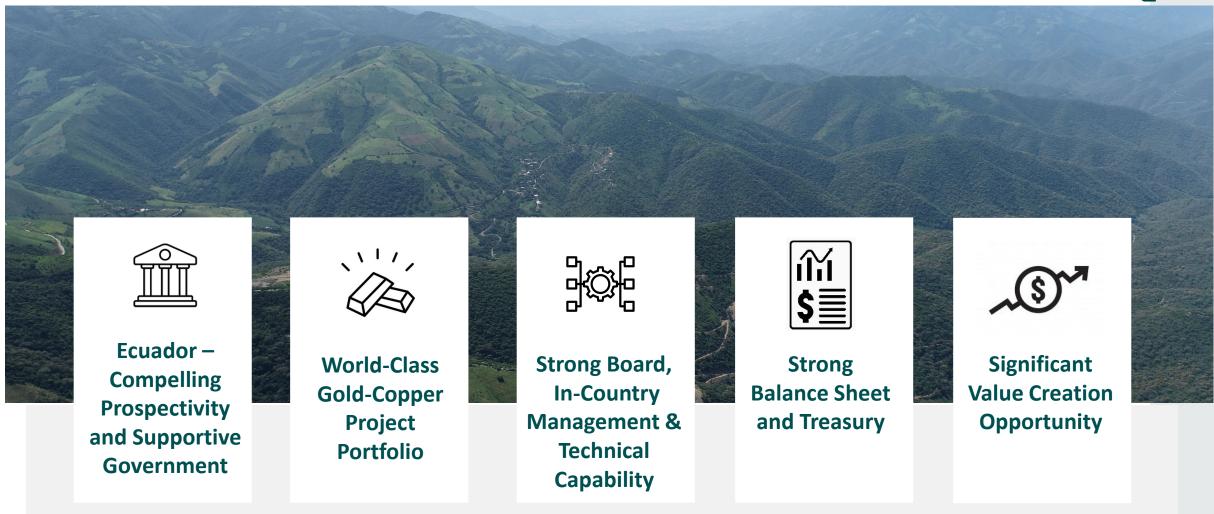
AUTHORISATION

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

Well Positioned to Create Value

WORLD-CLASS GOLD-COPPER PORTFOLIO





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"



Tamara Brown
Non-Executive Director
Engineer & Corporate Strategist
"Strong Ecuadorian and Capital markets experience"



Nick Rowley
Non-Executive Director
Commerce & Applied Finance Degrees
"Proven dealmaker and experienced corporate"



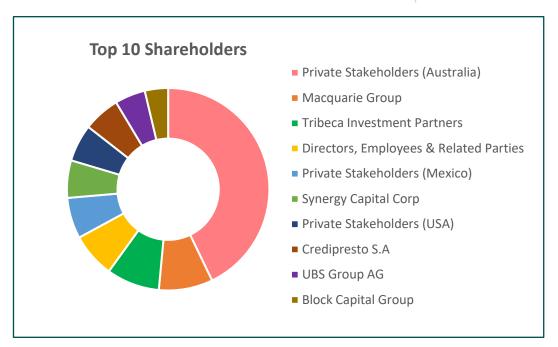
Barry Bourne
Non-Executive Director
Geologist and Geophysicist
"Renowned Innovator"



Melanie Leighton
Chief Executive Officer, appointed Jan 2023
Geologist & Business Master
"Strong Latin American and Mineral Exploration experience"

Capital Structure (as at Dec 31, 2022)

ASX	TTM		
Share Price	A\$0.061		
Common Shares O/S	1,411m		
Options & Performance Rights	96.6m		
Est. Cash and Receivables	A\$2.5		
Market Capitalisation	~A\$86		







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)¹
- Lowest effective tax rates and fastest permitting in Latam
- Several major projects advancing from exploration through development and 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, FOCUSSED AND EFFECTUAL EXPLORATION

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- ✓ Rank and prioritise strategic assets and define opportunities through systematic 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
- Engage key technical experts to guide and optimize exploration strategy
- ✓ 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

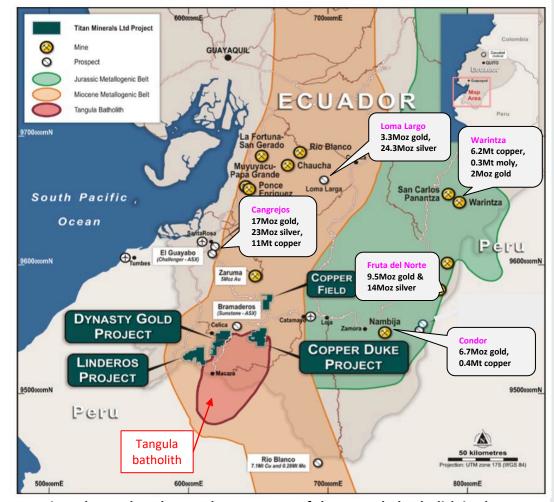
2. Linderos Project (100%)

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

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 Project Summary

KEY HIGHLIGHTS & PROJECT ADVANCEMENT

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- Advancing Exploration- data assessment and systematic exploration undertaken to produce consistent foundation geological datasets
- Improved geological understanding & new targets defined- both Intermediate Sulphidation Epithermal (gold) and Porphyry (copper, gold, molybdenum)
- Mineral Resource Estimate- multiple workstreams well advanced to facilitate JORC 2012 Resource
- 3D geology/ vein model being developed following extensive surface mapping and drillhole relogging campaign
- Project Explorability is HIGH:
 - 50% outcrop provides excellent exposure for exploration
 - Good project access, medium-hills terrain and
 - ONLY 20% of project explored to date!



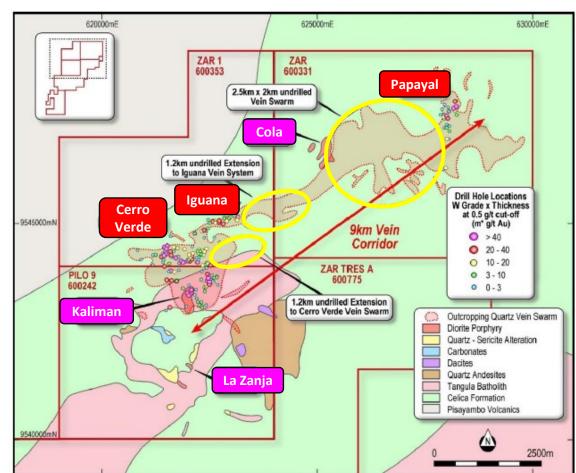
Geological team collection channel samples at the Dynasty Project

Dynasty Gold Project

CURRENT RESOURCE JUST THE BEGINNING...

2.1 million oz Gold 16.8 million oz Silver¹

- 9km x 1km epithermal corridor with intermediate sulphidation Au-Ag and evidence for Cu-Au porphyry mineralisation
- Validated by trial mining of ~600,000t @ 3.46g/t
 Au 169% tonnes @ 85% grade = 40% more gold
- Compilation of consistent geological datasets a focus, with several new targets identified
- 3D geological model being built to facilitate resource estimation and drill targeting
- Significant potential still remains to extend high grade epithermal gold mineralisation- both lateral and depth extensions
- Preparations well advanced to commence drill testing of extensional targets



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	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.

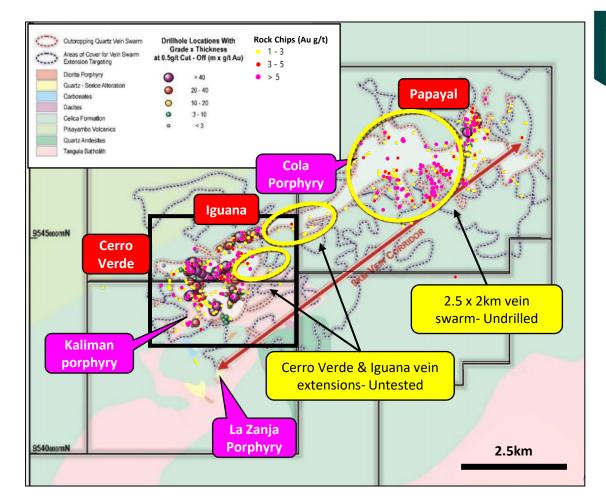


Dynasty Gold Project

SIGNIFICANT POTENTIAL FOR ADDING SIGNIFICANT OUNCES

- Current Resource only includes mineralisation exposed at surface- 5km gap in drilling
- Potential for extensions under cover confirmed by geophysics and rock chip surface geochemistry
- Cerro Verde prospect- 1.2km strike extension with numerous undrilled veins at surface
- Iguana prospect- 1.2km strike extension, untested
- Papayal prospect- 2.5km x 2km undrilled vein swarm
- Kaliman Au-Cu Porphyry confirmed by drilling, surface mapping and geochemistry
- La Zanja Cu-Au Porphyry confirmed by surface mapping and geochemistry

Integrated geological interpretation has highlighted epithermal-style vein and porphyry style targets





Cerrro Verde Quartz vein with colloform and replacement textures, mineralisation includes pyrite, arsenopyrite, and sphalerite.



Kaliman Porphyry outcrop displaying strong stockwork veining

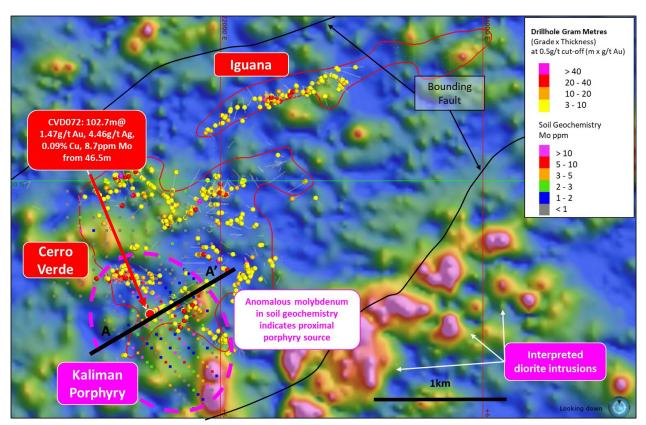
ASX: TTM

Kaliman Porphyry Prospect, Dynasty Gold Project

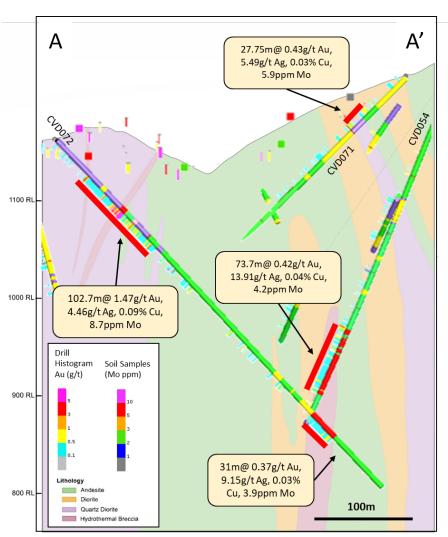
PORPHYRY DISCOVERED, POTENTIAL SCALE UNTESTED

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- Kaliman Au-Cu Porphyry confirmed by drilling: 102.7m @ 1.47g/t Au and 4.46g/t Ag, 0.09% Cu and 8.7ppm Mo from 46.5m in CVD072
- Surface mapping and geochemistry has highlighted a 1km diameter porphyry



Dynasty Project displaying Analytic Signal, drill gram metres, targets and soil samples (molybdenum)



Cross Section A-A' displaying drilling (Au histogram), interpreted geology and mineralised intersections

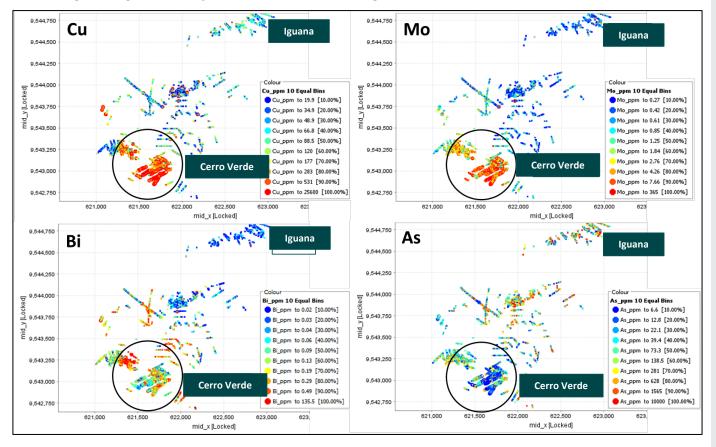
Cerro Verde Prospect, Dynasty Project

CLASSIC PORPHYRY SIGNATURE, UNDERSTANDING GEOCHEMISTRY IS KEY



- Geochemistry has identified two styles of mineralisation at Cerro Verde:
 - Porphyry gold-copper potassic alteration overprinted by pervasive phyllic (sericite-chlorite)
 - Intermediate Sulfidation epithermal Au-Ag (base-metal carbonate)
- Cerro Verde shows classic porphyry metal zonation
- Cerro Verde is located on apophyses of diorite intrusions
- Iguana contains diorite dykes with the same composition as Cerro Verde, so has potential for porphyry mineralisation also
- Iguana has the same chemical signature as western epithermal zone at Cerro Verde

4 acid digest ICP geochemistry and SWIR data from drilling





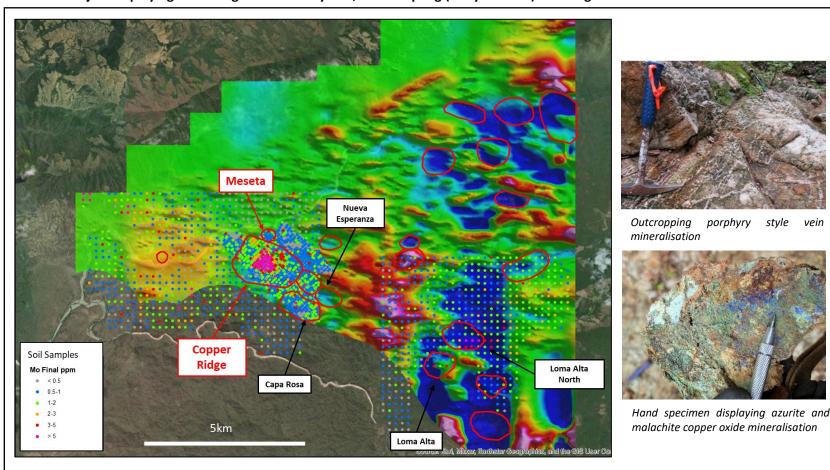
Linderos Project Overview

COPPER PORPHYRY AND EPITHERMAL GOLD STYLE MINERALISATION



- Largely underexplored- several prospects identified, but exploration primarily directed at Copper Ridge & Meseta
- Substantial porphyry coppergold system at Copper Ridgenow proven by drilling
- Intermediate sulphidation epithermal gold system at Meseta- now proven by drilling
- Intermediate sulphidation epithermal gold-silver systems at Loma Alta, Victoria and other anomalies
- Geochemistry indicates presence of further porphyry centres
- 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

STRONG EVIDENCE FOR SUBSTANTIAL PORPHYRY COPPER MINERALISATION

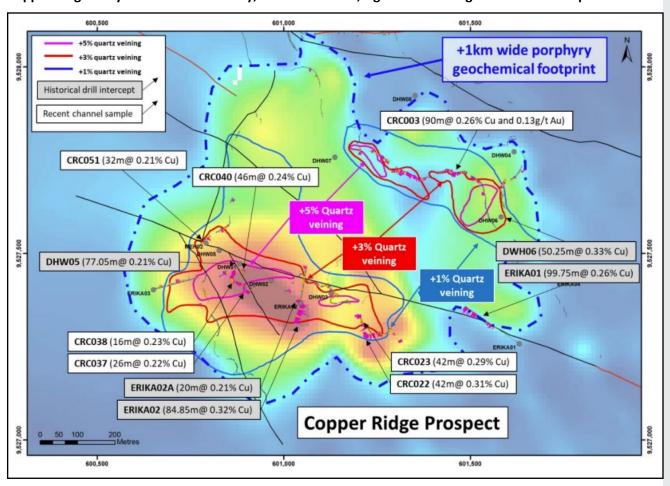


- +1km diameter textbook porphyry signature- central coincident Au-Cu-Mo, and distal zoned base metal anomalism
- Surface mapping and historical drilling confirmed the presence of diorite intrusions with porphyry style veining and mineralisation
- Some better results channel sampling include:
 - 46m @ 0.24% Cu, 9.71 ppm Mo in CRC040,
 - 32m @ 0.21% Cu, 3.91 ppm Mo in CRC051, and
 - 26m @ 0.22% Cu, 9.76 ppm Mo in CRC037
- Drilling by Titan in late 2022 discovered wide mineralised diorite porphyry from shallow depths

Diorite Porphyry with potassic alteration overprinted by phyllic alteration, disseminated chalcopyrite, pyrite 3% and trace of molybdenite, and stockwork quartz veinlets



Copper Ridge molybdenum soil anomaly, vein abundance, significant drilling and channel samples



Linderos Project- Copper Ridge Prospect

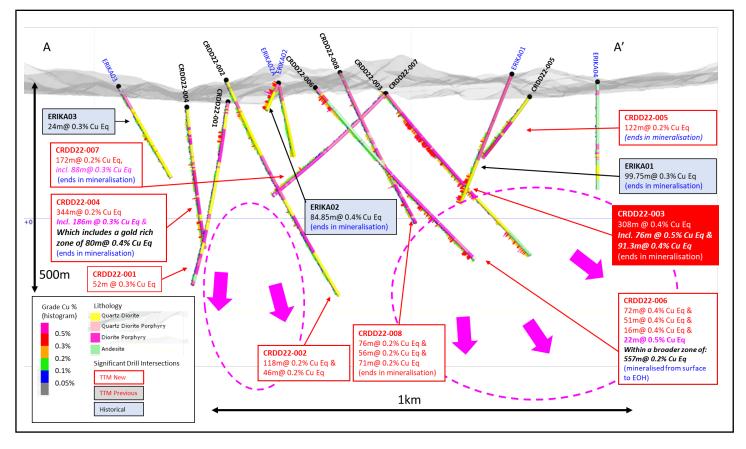
MAIDEN DRILLING HIGHLIGHTS MINERALISED PORPHYRY FROM SHALLOW DEPTHS



15

- Maiden campaign of 8 diamond holes drilled to test porphyry potential in late 2022
- Wide intervals of mineralised coppermolybdenum ± gold ± silver porphyry intersected from shallow depths, with 6 out of 8 holes ending 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 end of hole, including a higher-grade intercept of 72m grading 0.4% Cu Eq¹ from 21m; mineralised to end of hole
- Higher copper-gold grades associated with inter-mineral diorite porphyry with potassic green-grey sericite alteration

Long Section displaying drilling and porphyry extensional targets



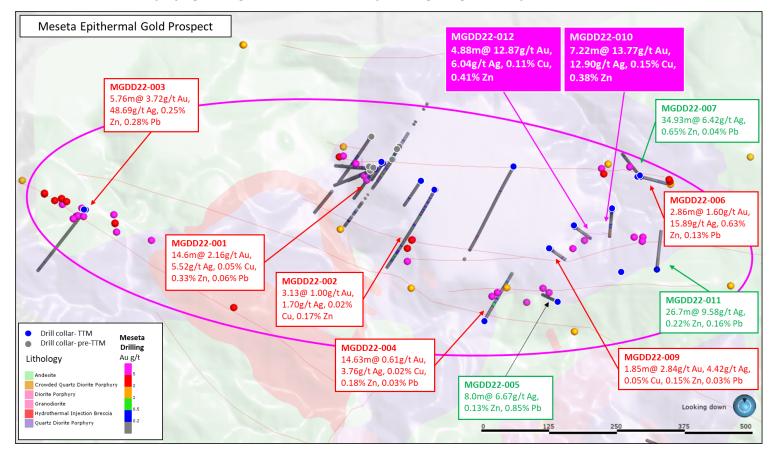
Linderos Project- Meseta Prospect

INTERMEDIATE SULPHIDATION SYSTEM ADJACENT TO COPPER RIDGE PORPHYRY SYSTEM



- Higher grade gold hosted in sub-vertical structures at margins of diorite porphyry stock
- Extensive hydrothermal alteration
- Metal zonation and alteration assemblages typical of intermediate sulphidation systems related to proximal porphyry systems
- 14 holes drilled in late 2022 intersected multiple narrow massive veins
- Significant gold results:
 - 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

Meseta Plan View displaying drilling (Au), surface rock chips (Au), geological Interpretation



Linderos Project- Copper Ridge & Meseta

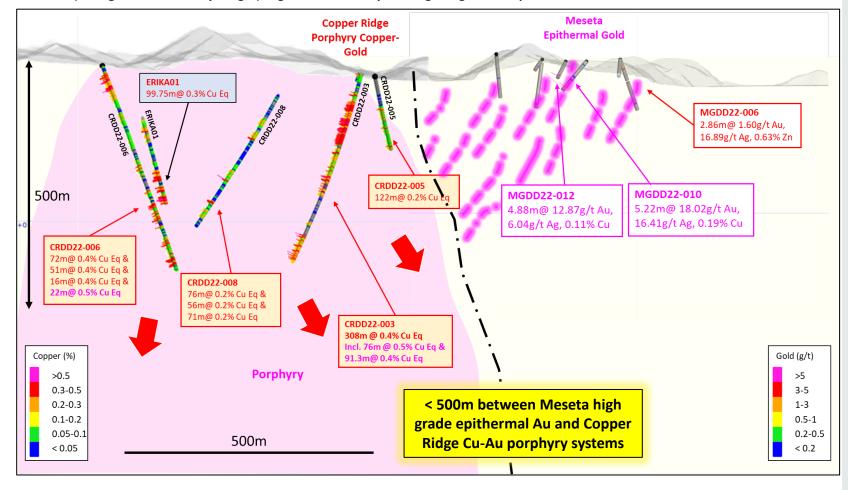
PORPHYRY & EPITHERMAL SYSTEMS LINKED

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17

- Shallow epithermal system 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



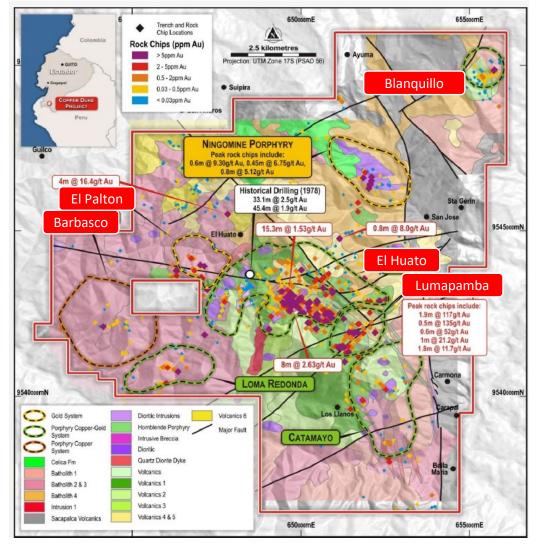
Copper Duke Project

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 12km²

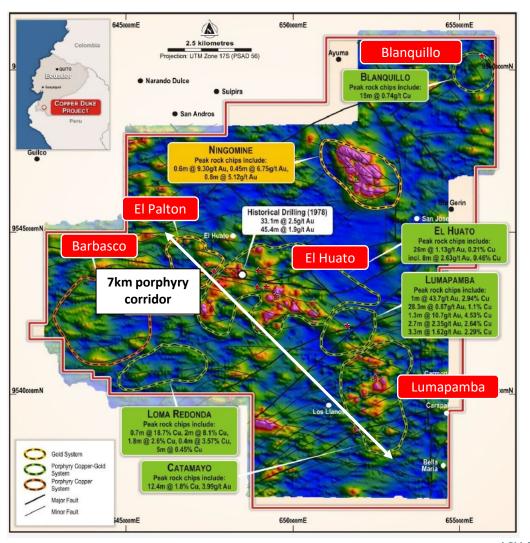
3D geophysical modelling of airborne magnetic surveys with target review and ranking is underway

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

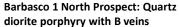
SYSTEMATIC EXPLORATION COMPLETED AND DRILL TARGETS DEFINED

- 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!









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

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



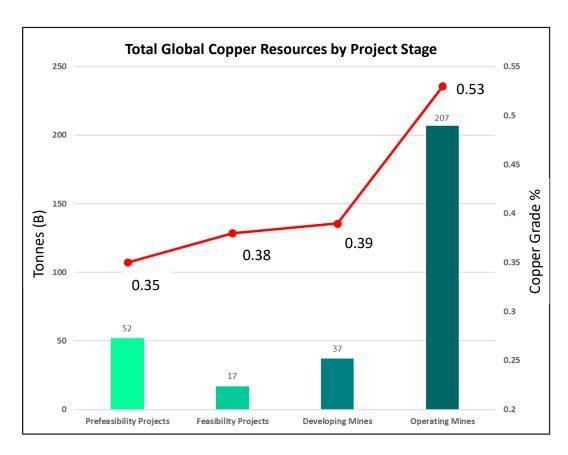
Copper Development Pipeline

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 U\$\$13,000/t (~U\$\$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 turbocharge demand for minerals such as copper



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



22

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 porphyrycopper-gold discoveries with high conviction targets defined and ready to drill in 2023
- Opportunities to farm-out to expedite progress and create wealth under considerationsignificant inbound interest





THANK YOU



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