TITAN MINERALS LTD

Emerging Gold Developer and Advanced Porphyry Copper Explorer in Ecuador

Investor Presentation

Noosa, July 2024

ASX: TTM

TITANMINERALS.COM.AU

Disclaimer and Forward-Looking Statements

COMPETENT PERSON'S STATEMENTS

Exploration results referred to in this presentation have been previously reported by Titan in ASX announcements. Titan confirms that it is not aware of any new information or data that materially affects the information included in that announcement. The Competent Person for the presentation was Melanie Leighton. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

The information in the presentation that relates to the Estimation and Reporting of the Dynasty Mineral Resources has been compiled and reviewed by Ms Elizabeth Haren of Haren Consulting Pty Ltd who is an independent consultant to Titan Minerals Limited and is a current Member and Chartered Professional of the Australasian Institute of Mining and Metallurgy and Member of the Australian Institute of Geoscientists. Ms Haren has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The JORC Code). Ms Haren consents to the inclusion in this report of the matters based on her information in the form and context in which it appears.

Dynasty Project	Indicated					Inferred					Total				
	Tonnes (M)	Grade (g/t)		Contained Metal (Moz)		Tonnes (M)	Grade (g/t)		Contained Metal (Moz)		Tonnes (M)	Grade (g/t)		Contained Metal (Moz)	
		Au	Ag	Au	Ag		Au	Ag	Au	Ag		Au	Ag	Au	Ag
Cerro Verde	15.17	2.01	13.51	0.98	6.59	13.63	2.15	12.44	0.94	5.45	28.80	2.08	13.00	1.92	12.04
Iguana	2.41	2.36	16.08	0.18	1.25	8.52	1.92	13.00	0.53	3.56	10.93	2.02	13.68	0.71	4.81
Trapichillo	0.05	1.89	9.28	0.00	0.01	2.89	3.83	39.80	0.36	3.70	2.94	3.80	39.31	0.36	3.71
Papayal	0.46	3.04	48.24	0.05	0.72	0.41	6.24	53.80	0.08	0.71	0.87	4.54	50.85	0.13	1.43
Total	**18.09**	**2.09**	**14.73**	**1.21**	**8.57**	**25.44**	**2.33**	**16.40**	**1.90**	**13.41**	**43.54**	**2.23**	**15.70**	**3.12**	**21.98**

Notes:
1.Reported ≥ 0.5 g/t Au. 2.Some rounding errors may be present. 3.Tables are rounded as the final steps. Totals are not calculated after rounding. 4.M – million. Oz- ounce. g/t – grams per tonne.

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.

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AUTHORISATION

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

Titan Investment Proposition

Near-term gold developer & copper explorer in elephant country

Emerging Gold-Silver Developer

- 3.1Moz Gold & 22Moz Silver resources established
- Targeting +5Moz Gold resource through growth drilling

First Mover Advantage with Optionality

- World class copper-gold project portfolio in highly prospective, under-explored Andean Copper Belt

Partner Secured for Copper Exploration

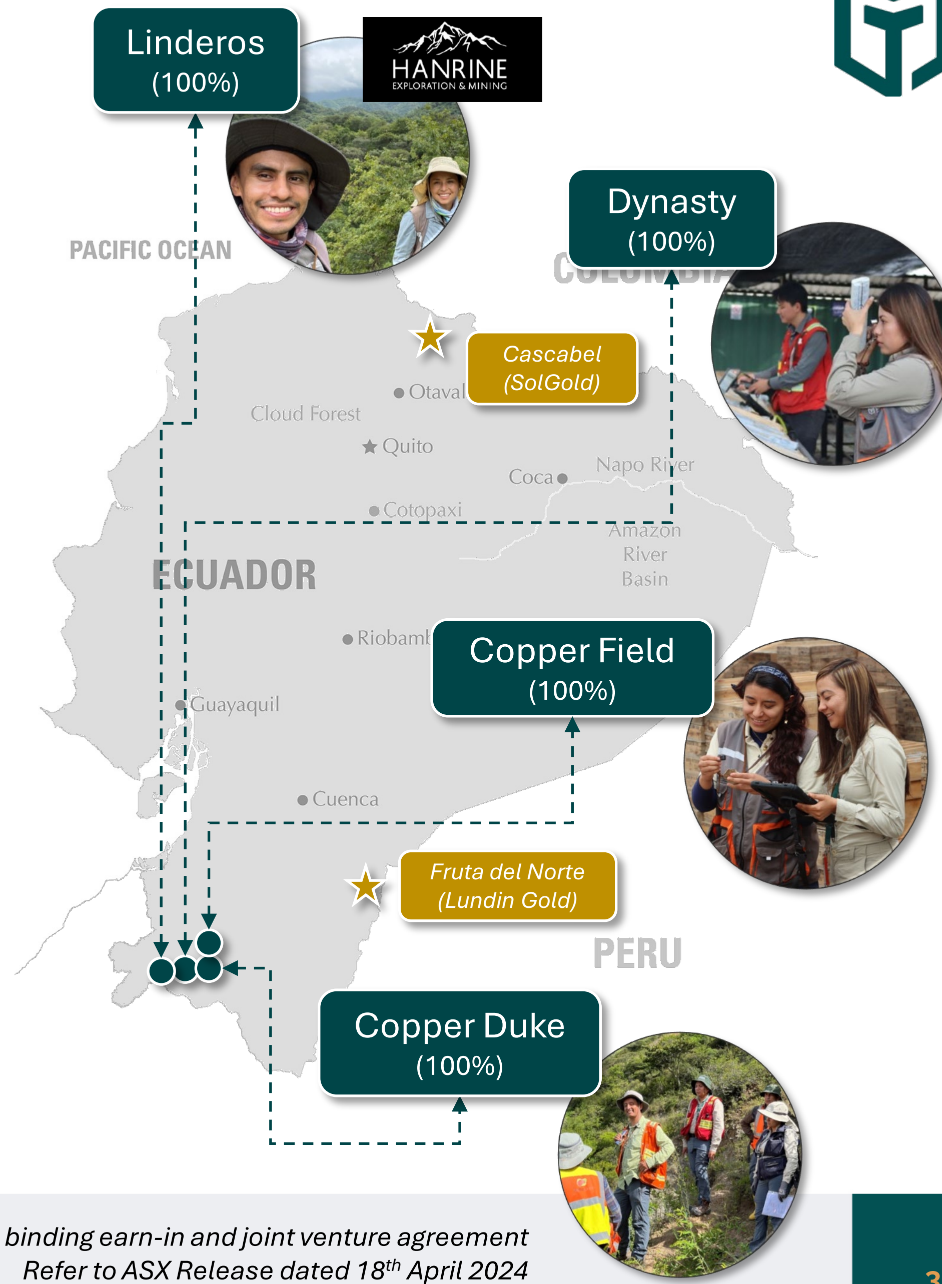
- Hancock Prospecting[1] to spend up to US$120M to acquire 80% of Linderos Project, the first of 3 copper projects

Emerging Tier 1 Mining Jurisdiction

- Ecuadorian government supportive of mining, with significant support and incentives

Management with Proven Capability

- Experienced board and capability to deliver value through discovery and development across multiple projects



1. *The Proposed Transaction and key terms, remain subject to executing a formal binding earn-in and joint venture agreement*

Refer to ASX Release dated 18th April 2024

Corporate Snapshot

Titan poised for rerate- quality projects and strong sentiment for gold and copper

Capital Structure

ASX	TTM
Share Price	$0.05
Shares on Issue	1.84 B
Options	439.7M
Market Cap	$ 92M $110M (fully dilute)
52 week low/ high	$0.017/$0.076
Average volume (90 days)	4.4 M
Cash Debt Receivables	$2.9M* $3.35M $3.8M (balance of Zaruma asset sale)

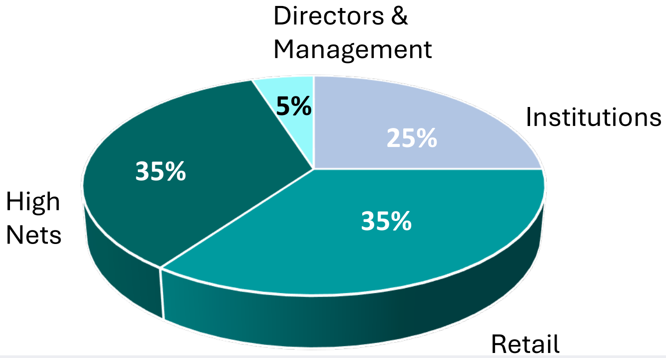
**AUD at 31 Mar 2024*

***US$2M due upon execution of definitive Linderos JV Earn-In Agreement with Hanrine.*

Share Price Graph

3 month

Shareholders



- **Strong institutional backing**
- **56 % held by Top 20 shareholders**
- **72% help by Top 50 shareholders**

One of the best performing ASX junior explorers in 2024, up 90% ytd

Board & Management Team

Right team assembled to add substantial value through discovery and development

PETER COOK
NON- EXECUTIVE CHAIRMAN

Geologist & Mineral Economist

- +35 years' experience in exploration, mining and corporate management.
- Founded and served as Managing Director/ Chairman for many successful mining and exploration companies.

MATTHEW CARR
EXECUTIVE DIRECTOR

Entrepeneur & Project Developer

- Experienced company director, founder of Urban Capital Group, a private equity firm with a focus on property backed investment and security.

BARRY BOURNE
NON-EXEC DIRECTOR

Geologist and Geophysicist

- Founder and Principal Consultant at Terra Resources, specialising in exploration targeting.
- Previously held senior and management roles with Barrick Gold and Homestake Gold.

MELANIE LEIGHTON
CHIEF EXECUTIVE OFFICER

Geologist & Business Master

- Geologist with +20 years' experience in exploration, development and mining across precious and base metals.
- Considerable experience in Latin America and in porphyry copper deposits.
- Previous roles include executive management and senior roles with Hot Chili Ltd and Harmony Gold.

PABLO MORELLI
EXPLORATION MANAGER

- Geologist with + 20 years' experience working across epithermal systems as well as copper- and gold-rich porphyry systems.
- Previous roles held with Barrick, Newmont, Kinross and Rio Tinto.
- Experience across Cretaceous, Palaeocene, Eocene-Oligocene and Miocene Belts of Chile and Mexico.

MICHAEL SKEAD
CHIEF TECHNICAL ADVISOR

- Geologist with + 30 years' experience in exploration, development and mining.
- Former Director of Geoscience in Newmont's Global Projects Team and Former Director of Global Exploration for Goldcorp.
- Significant experience in emerging mining jurisdictions
- Spent 1 year in Ecuador building out the team

Ecuador, Emerging Tier 1 Mining Jurisdiction

Investment in new jurisdictions to meet future metals demand

Highly Prospective, Underexplored

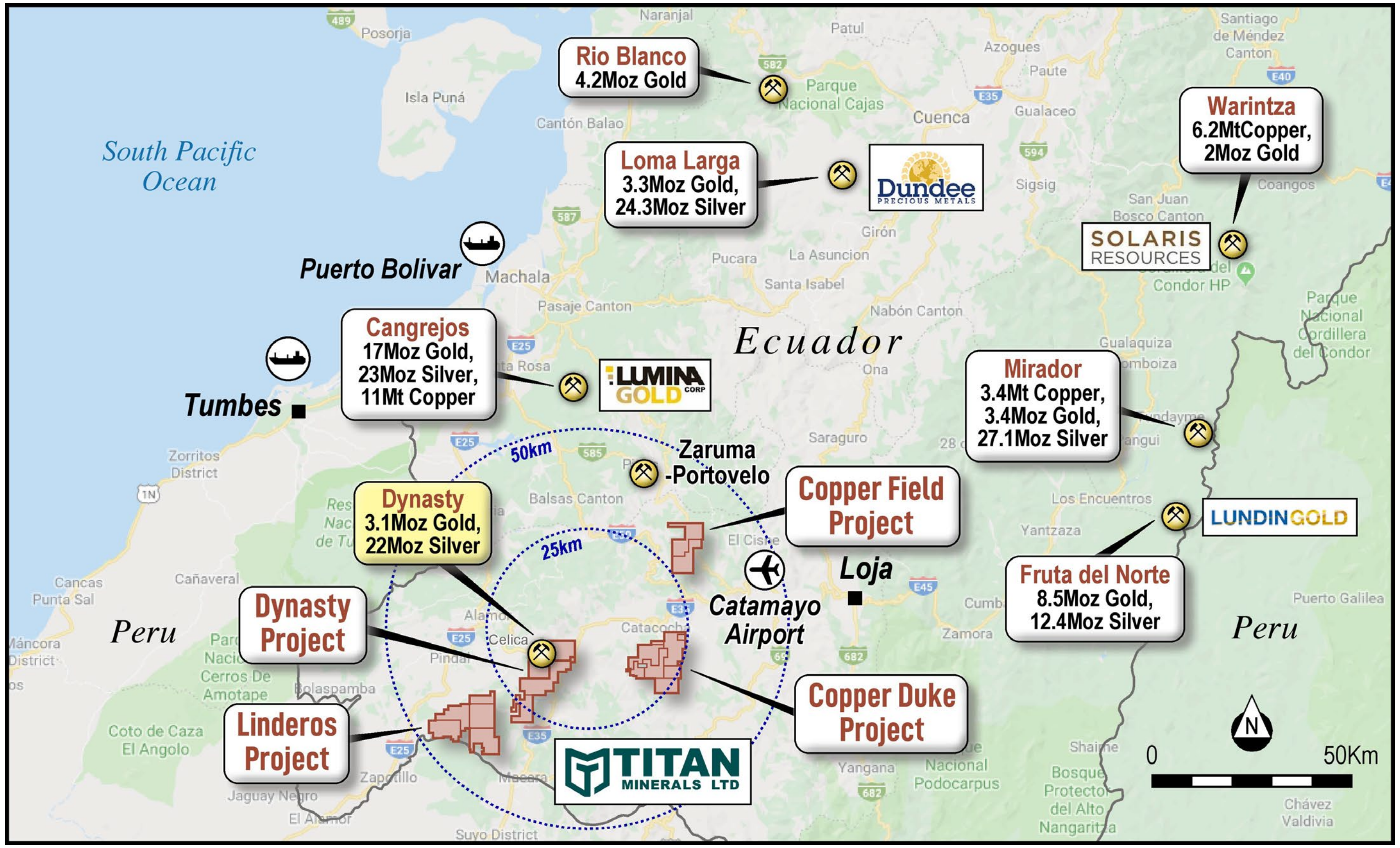
- Optionality and exposure to meaningful scale copper and gold in highly prospective Andean copper belt

Good Project Access & Infrastructure

- Low Elevation
- Exploration year-round
- Infrastructure Rich
- Workforce ready

Strong Government Support

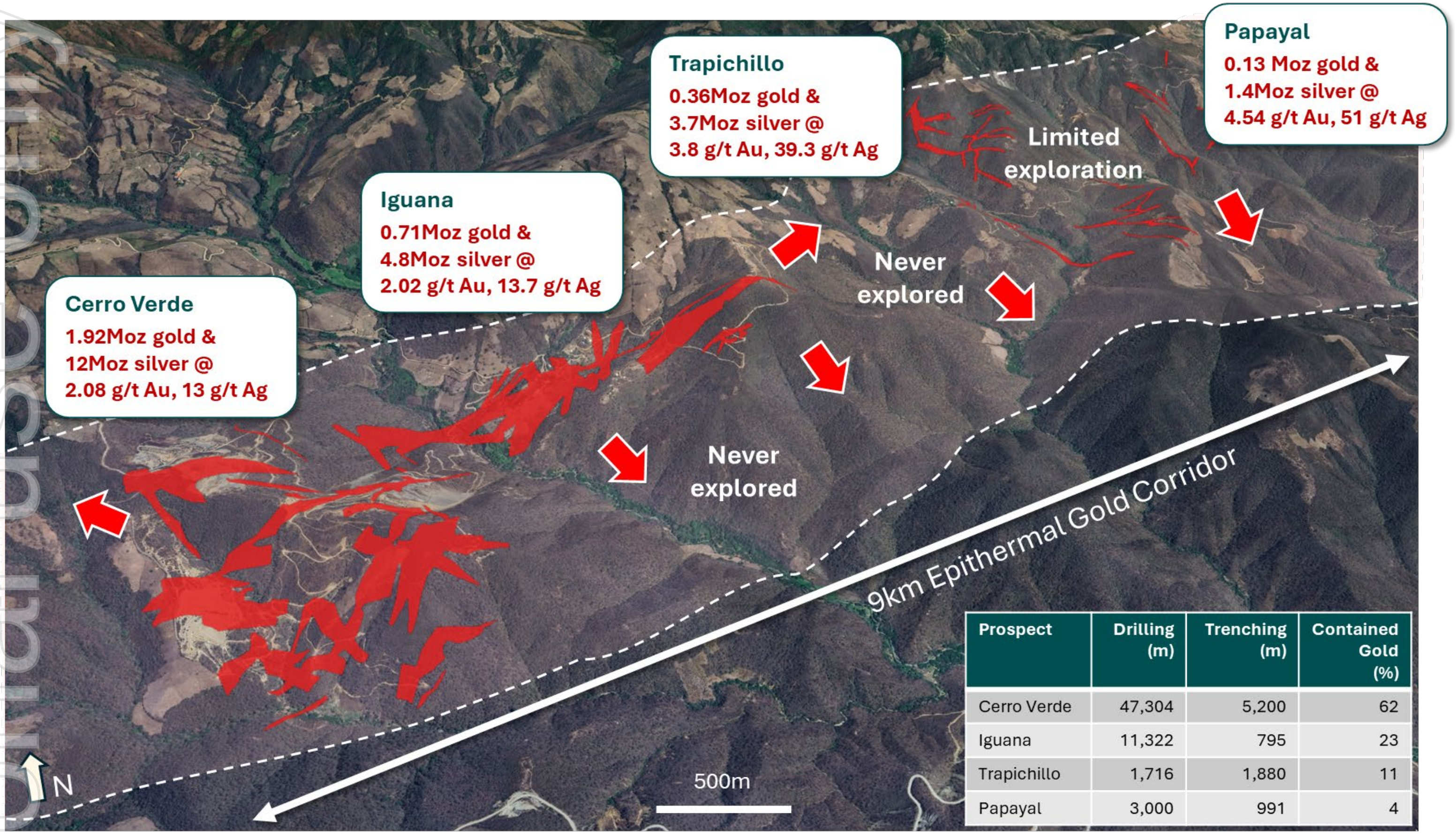
- Low tax rates, low inflation, fast permitting
- Mining contributes 1-2% GDP, targeting 10-12%
- Several copper and gold projects advancing through development



SolGold Dundee PRECIOUS METALS LUNDIN GOLD SOLARIS RESOURCES FIRST QUANTUM MINERALS LTD. BARRICK BHP LUMINA GOLD CORP CODELCO Newmont AngloAmerican HANCOCK PROSPECTING

Dynasty Gold Project

3.1Moz gold established resource , targeting +5Moz gold

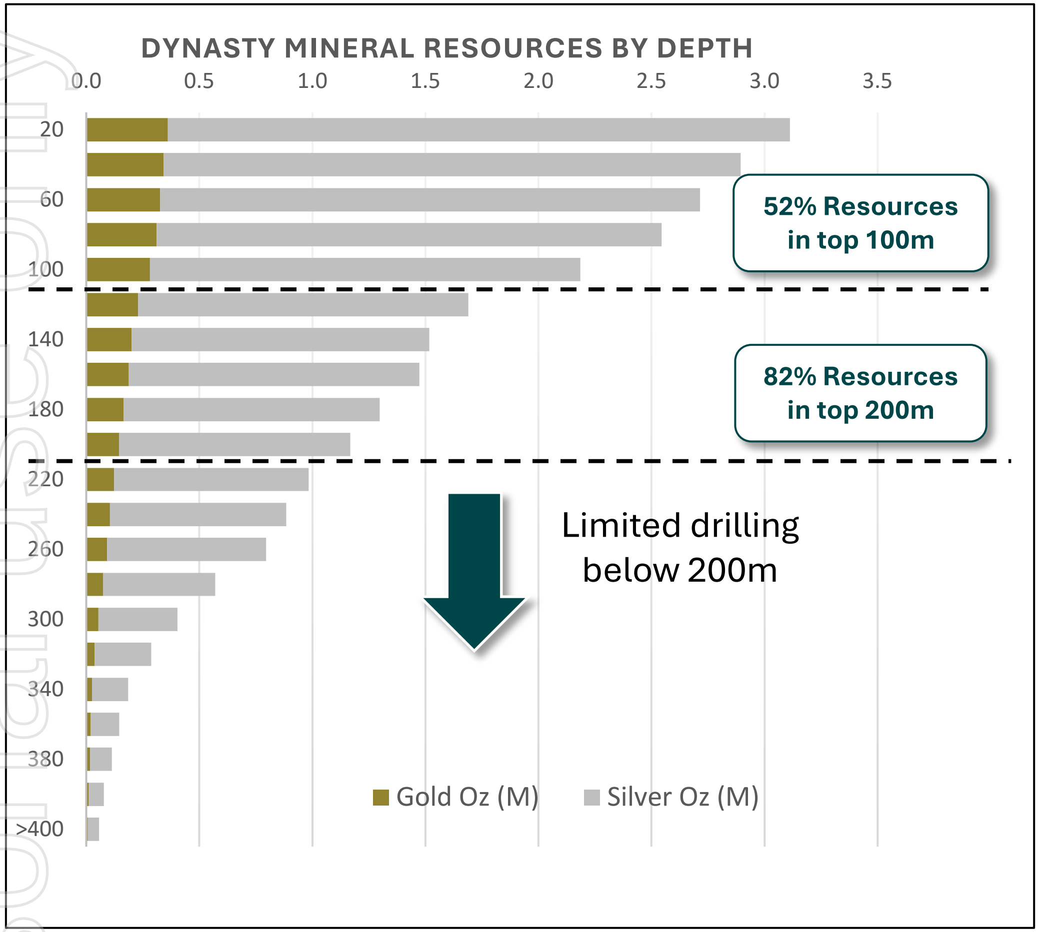


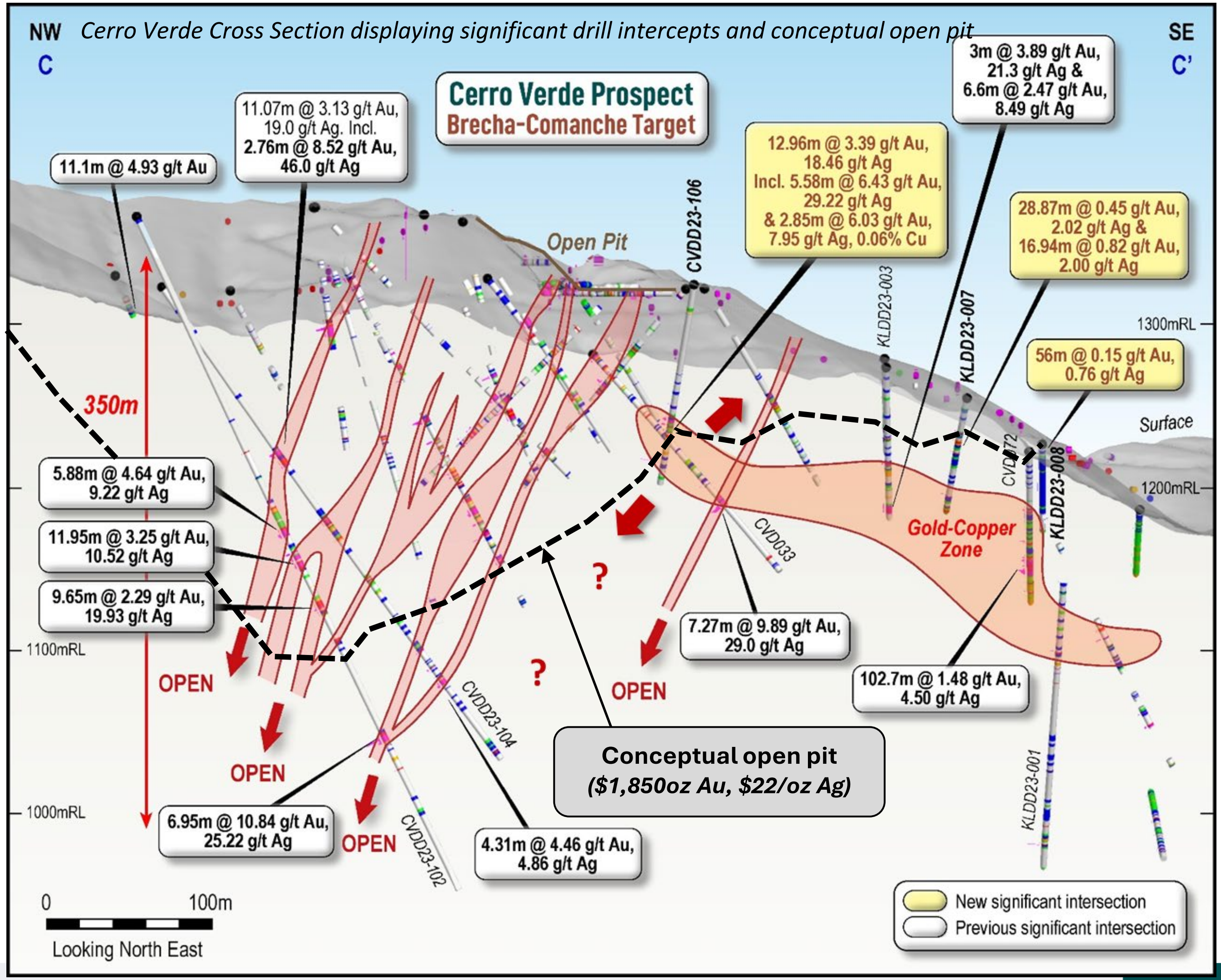
Prospect	Drilling (m)	Trenching (m)	Contained Gold (%)
Cerro Verde	47,304	5,200	62
Iguana	11,322	795	23
Trapichillo	1,716	1,880	11
Papayal	3,000	991	4

- 9km epithermal gold corridor hosting substantial resource of 3.12Moz gold and 22Moz silver @ 2.2g/t Au, 15g/t Ag **from surface**
- High-grade resources of 2Moz gold and 13Moz silver @ 3.8 g/t Au, 24g/t Ag
- **Less than half** 9km epithermal system effectively explored
- **+50% resources** (**1.6Moz**) in top 100m
- **+80% resources** (**2.5Moz**) in top 200m
- 39% Indicated, 61% Inferred
- **Resource update** incorporating improved geological interpretation **due August**

Dynasty Gold Project

Strong potential to grow resources at depth

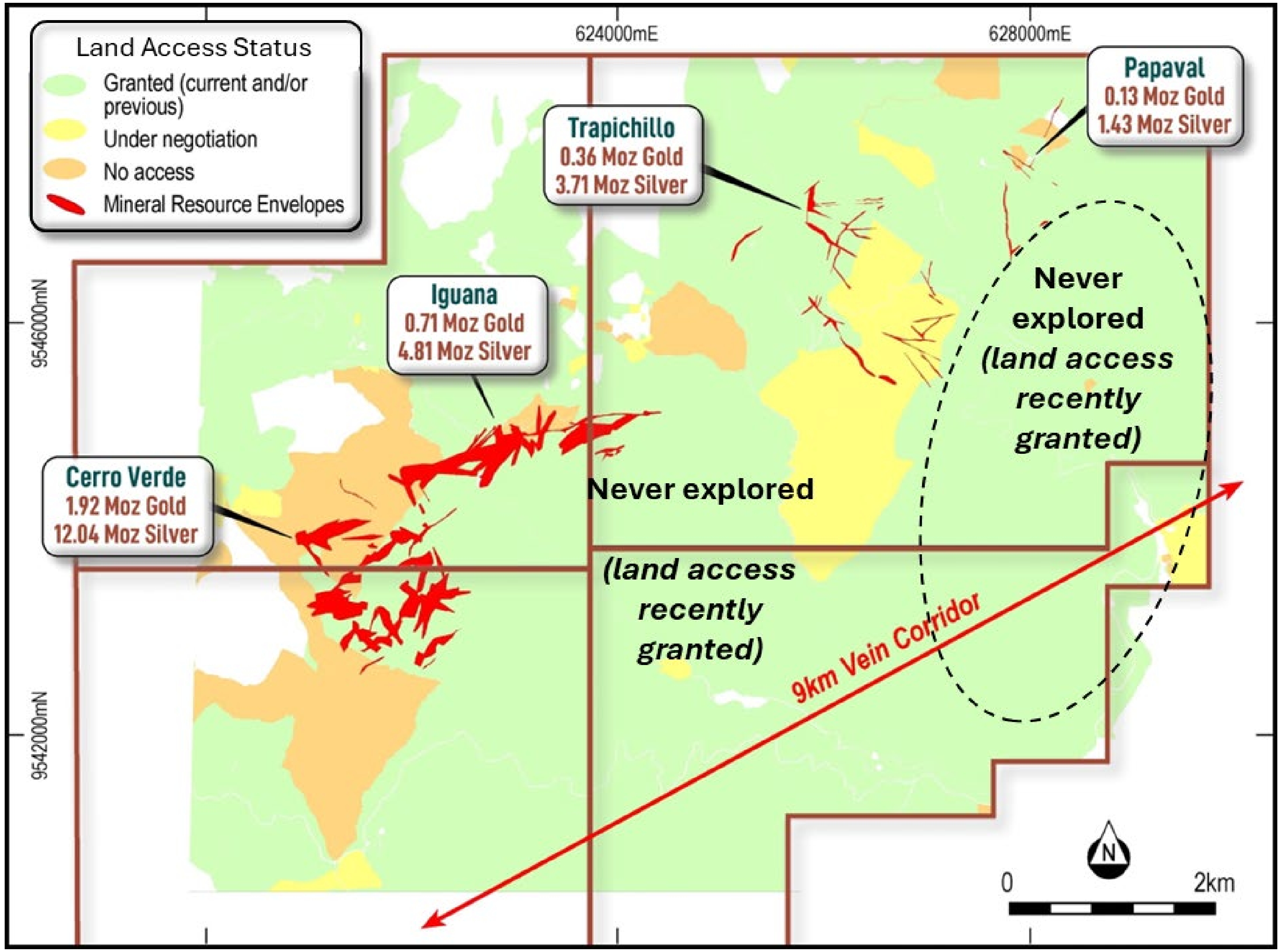




Dynasty Gold Project

Community relationships grow stronger, unlocking substantial new areas for exploration

- Land agreements recently executed providing **access to high priority areas** of the Dynasty epithermal gold corridor, including areas never previously explored
- **Creating mutually beneficial partnerships,** providing employment and training opportunities to communities
- Mapping and surface geochemistry programs now expanded into **new, highly prospective areas never previously explored**

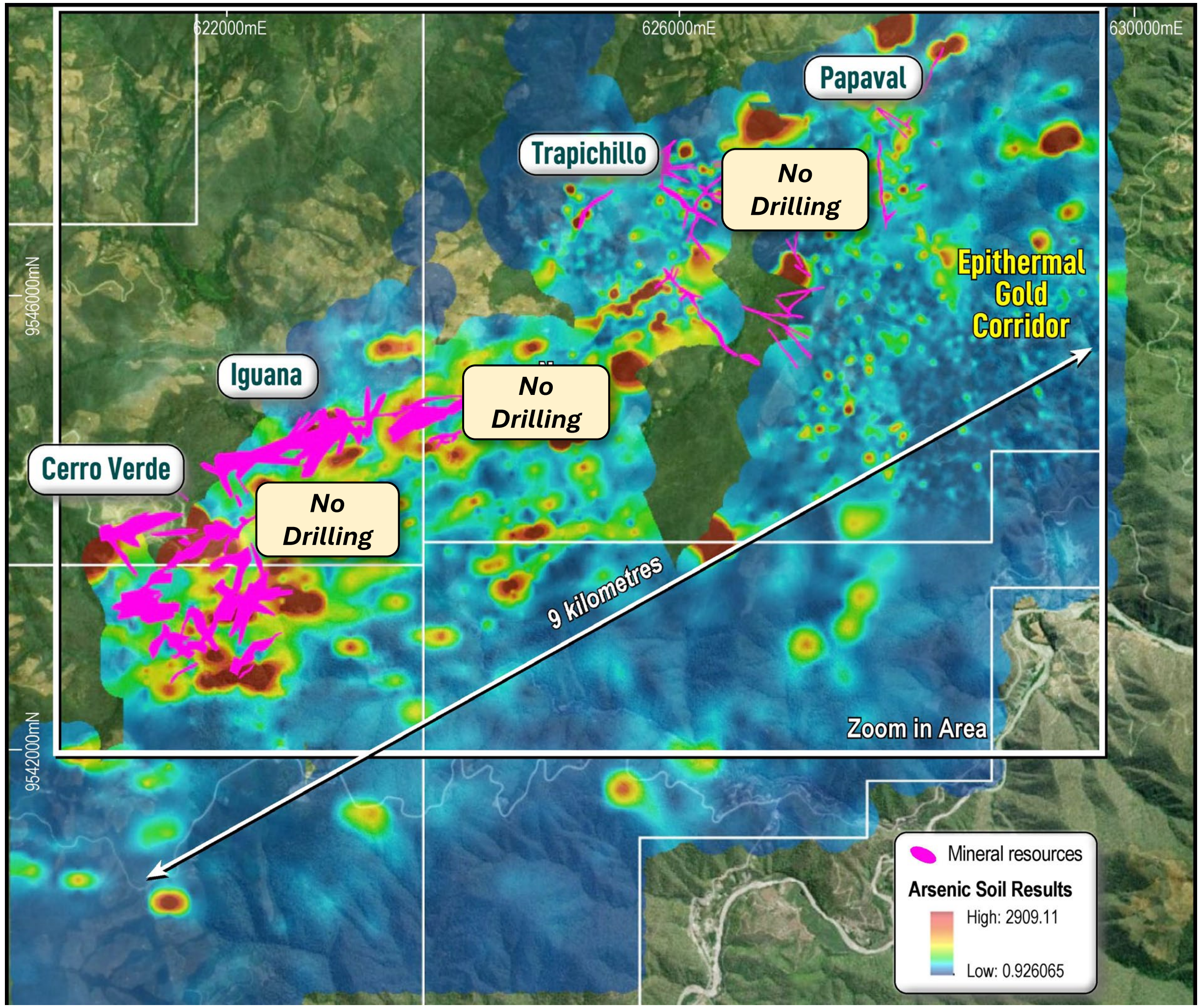


Dynasty Land Access Map

Dynasty Gold Project

Gold footprint continues to grow through targeted exploration

- **Substantial gold mineralisation and multiple new drill targets** highlighted by new exploration outside current resources
- **Large-scale copper soil anomalies** have revealed several compelling porphyry targets, adjacent to epithermal gold mineralisation
- **Trenching commenced over high priority gold and copper targets** to determine mineralisation extent and controls
- Mapping and geochemistry has revealed epithermal gold veining over 2km Gap Zone, **linking Iguana and Trapichillo mineralisation**
- **Resource growth drilling to commence in September**, following target ranking and drill optimisation

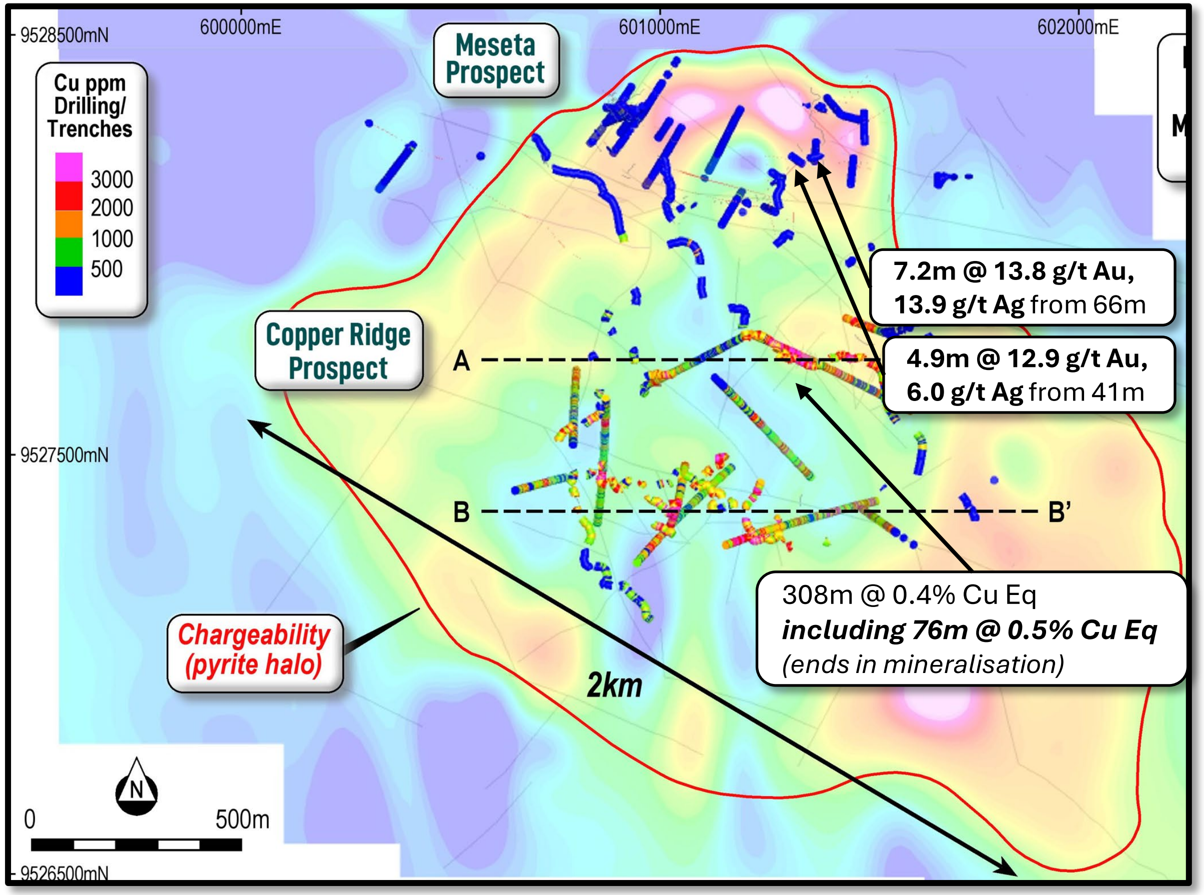


Substantial potential for further gold mineralisation highlighted outside of current resource

Linderos Copper Project

Partner secured to explore & develop Linderos to its full potential

- **Major partner secured to explore and develop Linderos Copper Project**, Hancock to earn 80% by spending up to US$120M or reaching Decision to Mine
- **Porphyry copper system** to extend from surface, confirmed by mapping, trenching and drilling, mineralisation remains open
- **+2km porphyry copper system** confirmed by geophysics, mapping phyllic alteration beyond drill defined porphyry
- **Meseta high-grade epithermal gold** system drill confirmed adjacent to Copper Ridge porphyry, mineralisation remains open
- Trenching at Meseta has unveiled a phyllic altered diorite porphyry, suggesting **proximal to a large porphyry copper system**
- **10,000 drilling campaign to commence in Q3 at Copper Ridge porphyry prospect**



3D IP Chargeability Depth Slice at 180mRL, ~170m below surface

Linderos Copper Project

HANCOCK PROSPECTING

HANRINE
EXPLORATION & MINING

Hancock Prospecting subsidiary to spend up to US$120m to earn 80% interest

- Hancock Prospecting subsidiary, Hanrine, to acquire up to 80% interest in the Linderos Copper Project, earn-in milestones:
  1. **US$2M upfront payment** to earn initial 5%. ***US$250K already paid, US$1.75M balance due upon execution of definitive agreement.***
  2. **10,000m drilling**, or additional expenditure of **US$8M**, to earn an additional 25% (cumulative earn-in 30%).
  3. **15,000m drilling**, or additional expenditure of **US$12M**, to earn an additional 21% (cumulative earn in 51%).
  4. **At Decision to Mine,** or total expenditure of **US$120M**, Hanrine earn an additional 29% (total cumulative earn in 80%).

- **Additional payment of US$1M** upon Hanrine achieving a 51% interest.
- **Titan free carried** whilst Hanrine earning up to 80% interest, following which, Titan contributes pro-rata
- If Titan's interest dilutes to below 10%, Titan's interest reverts to a **2.7% NSR**.
- **First right of refusal** retained over each other's interest in the Linderos Copper Project.

- **Initial investment of US$2M for 5% interest gives implied value of US$40M for Linderos Copper Project on 100% basis**
- **Hancock Prospecting have balance sheet and capability to fully explore and develop Linderos Copper Project**
- **Strong endorsement for Titan's strategy to explore and develop its highly prospective copper and gold projects in Ecuador**

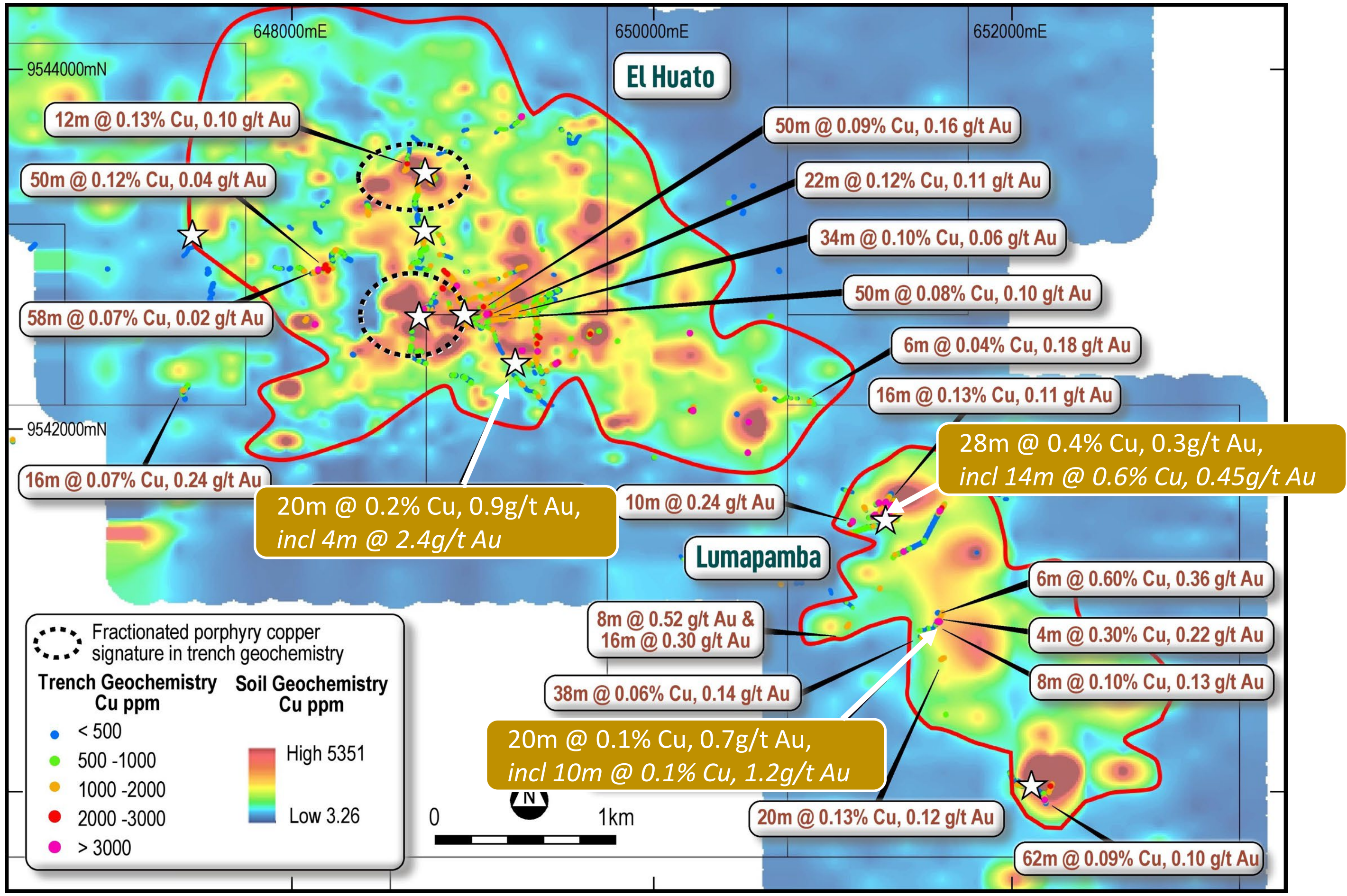
**The Proposed Transaction and key terms, remain subject to the parties agreeing and executing a formal binding earn-in and joint venture agreement*
Refer to ASX Release dated 18th April 2024

Copper Duke Project

Potential tier 1 porphyry copper discovery set to be unveiled

- **7km porphyry alteration footprint** highlighted by multiple datasets
- Geochemistry has confirmed **same magma type of global Tier 1 porphyry systems**
- Mineralisation age the same as **mega-porphyry copper deposits of Peru**
- Long lived mineral system with multiple outcropping targets – porphyry copper, breccia copper, skarn, intrusion related gold, and epithermal gold
- **High priority targets defined,** with drilling permits in place

Copper Duke Project highlighting soil and trench sample geochemistry (Cu ppm)



Long Term Partnerships with Key Stakeholders

Commitment to transparency, education, employment and inclusion

1 **ENVIRONMENTAL RESPECT**
Responsible exploration ensuring minimal disturbance to native vegetation and natural landscape

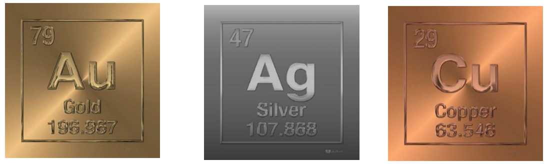
2 **COMMUNITY BENEFIT**
Working to benefit local communities, skills training, local partnerships and community initiatives

3 **BIG IDEAS**
Exploring blue-sky opportunities in fertile systems for game changing discoveries and sustainable projects

4 **RESPONSIBLE STEWARDSHIP**
Commitment to integrity, safety, best practice and responsible planning and management of resources

Communities previously opposed to mining are changing their attitude, after seeing the benefits generated by Titan's presence, through the generation of jobs and community development initiatives.

Growth through Discovery & Development



Multiple value accretive workstreams underway with optionality

- ✓ Dynasty Gold resource update, targeting resource growth and conversion, due August 2024
- ✓ Dynasty exploration programs unveiling new, high priority drill targets, in areas never previously explored
- ✓ Dynasty Pre-scoping optimisation study set to derisk- indicates large open pit and underground stoping mining scenario
- ✓ Dynasty Resource Growth drilling targeting +5Moz in resources, set to commence Q3 2024
- ✓ 10,000m drilling program set to commence Q3 2024 at Linderos Copper Project - funded by Hancock (Hanrine)
- ✓ 3 Copper projects offer exposure to meaningful scale copper, with significant inbound interest and M&A in copper space growing!

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