



Emerging Gold Developer and Porphyry Copper Explorer in Ecuador

Investor Presentation
March 2024

ASX: TTM



[TITANMINERALS.COM.AU](https://www.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.

SUMMARY INFORMATION

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).

NOT AN OFFER OF SECURITIES

This presentation has been prepared by Titan Minerals Limited (“Titan” or the “Company”) and is provided for informational purposes only. This presentation does not constitute or contain an offer, invitation, solicitation or recommendation with respect to the purchase or sale of any securities of Titan. This presentation does not constitute an offer to sell, or a solicitation of an offer to buy, any securities in any jurisdiction (in particular, the United States), or a securities recommendation. This presentation is not a prospectus, product disclosure statement or other offering document under Australian law or any other law and will not be lodged with the Australian Securities and Investments Commission.

NOT FINANCIAL PRODUCT ADVICE

This presentation does not constitute financial product advice and does not consider any investor’s personal investment objectives, taxation situation, financial situation or needs. This presentation consists purely of factual information and does not involve or imply a recommendation of a statement of opinion in respect of whether to buy, sell or hold a financial product. An investment in Titan or Core is considered to be speculative in nature. Before making any investment decision in connection with any acquisition of securities, investors should consult their own legal, tax and/or financial advisers in relation to the information in, and action taken on the basis of, this presentation.

NO LIABILITY

To the extent permitted by law, Titan makes no guarantee representation or warranty express or implied as to the accuracy, reliability, correctness, completeness or adequacy of any statements, estimates, options, conclusions or other information contained in this presentation. To the maximum extent permitted by law, Titan and each of its affiliates and its directors, officers, employees, associates, advisers and agents expressly disclaims any and all liability, including, without limitation, any liability arising out of fault or negligence, for any loss arising from the use of or reliance on information contained in this presentation including representations or warranties or in relation to the accuracy or completeness of the information, statements, opinions, forecasts, reports or other matters, express or implied, contained in, arising out of or derived from, or for omissions from, this presentation including, without limitation, any financial information, any estimates or projections and any other financial information derived therefrom. Statements in this presentation are made only as of the date of this presentation unless otherwise stated and the information in this presentation remains subject to change without notice. To the extent permitted by law, no responsibility or liability is assumed by Titan or any of its affiliates and its directors, officers, employees, associates, advisers and agents for updating any information in this presentation or to inform any recipient of any new or more accurate information or any errors or mis-descriptions of which Titan and any of its affiliates or advisers may become aware.

FORWARD LOOKING STATEMENTS

Certain information in this document refers to the intentions of Titan, but these are not intended to be forecasts, forward looking statements or statements about the future matters for the purposes of the Corporations Act or any other applicable law. The occurrence of the events in the future are subject to risk, uncertainties and other actions that may cause Titan’s actual results, performance or achievements to differ from those referred to in this document. Accordingly, Titan and its affiliates and their directors, officers, employees and agents do not give any assurance or guarantee that the occurrence of these events referred to in the document will actually occur as contemplated.

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.

Such forward-looking statements speak only as of the date of this document. There can be no assurance that actual outcomes will not differ materially from these statements. To the maximum extent permitted by law, Titan and any of its affiliates and their directors, officers, employees, agents, associates and advisers: disclaim any obligations or undertaking to release any updates or revisions to the information to reflect any change in expectations or assumptions; do not make any representation or warranty, express or implied, as to the accuracy, reliability or completeness of the information in this document, or likelihood of fulfilment of any forward-looking statement or any event or results expressed or implied in any forward-looking statement; and disclaim all responsibility and liability for these forward-looking statements (including, without limitation, liability for negligence).

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.

Titan Investment Proposition

Unlocking the value of gold and copper projects in Ecuador



Large scale gold-copper projects in under-explored and highly prospective Andean Copper Belt



3.1 Moz Gold & 22 Moz Silver in JORC Resources at Dynasty Gold Project



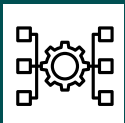
Significant potential for rapid resource growth and new discovery



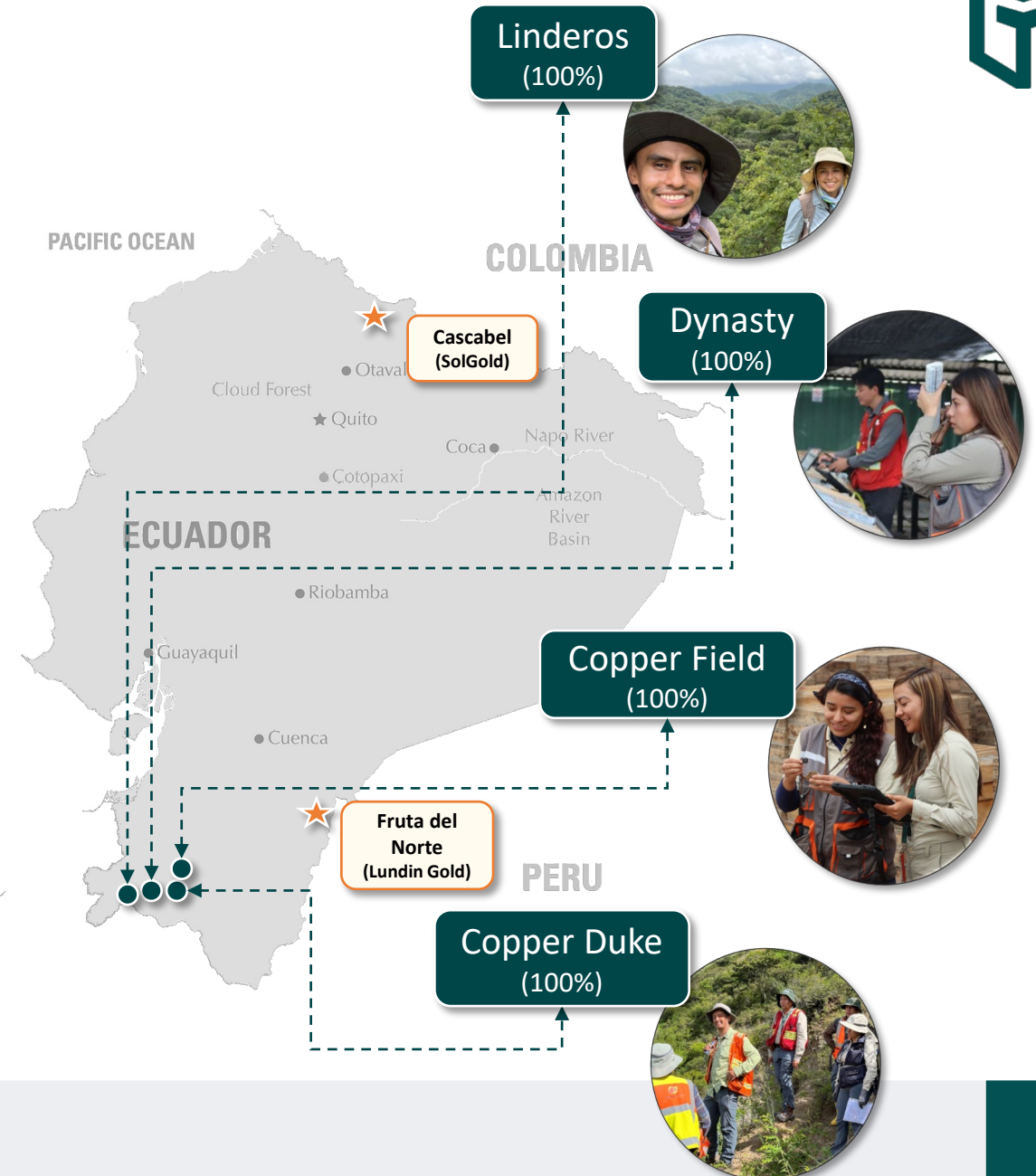
Ecuador- An emerging Tier 1 mining jurisdiction with significant government support



Strong community engagement and support with social license to operate



Experienced board, strong management and technical capability





Emerging Gold Developer & Porphyry Copper Explorer

Corporate Snapshot

Capital Structure

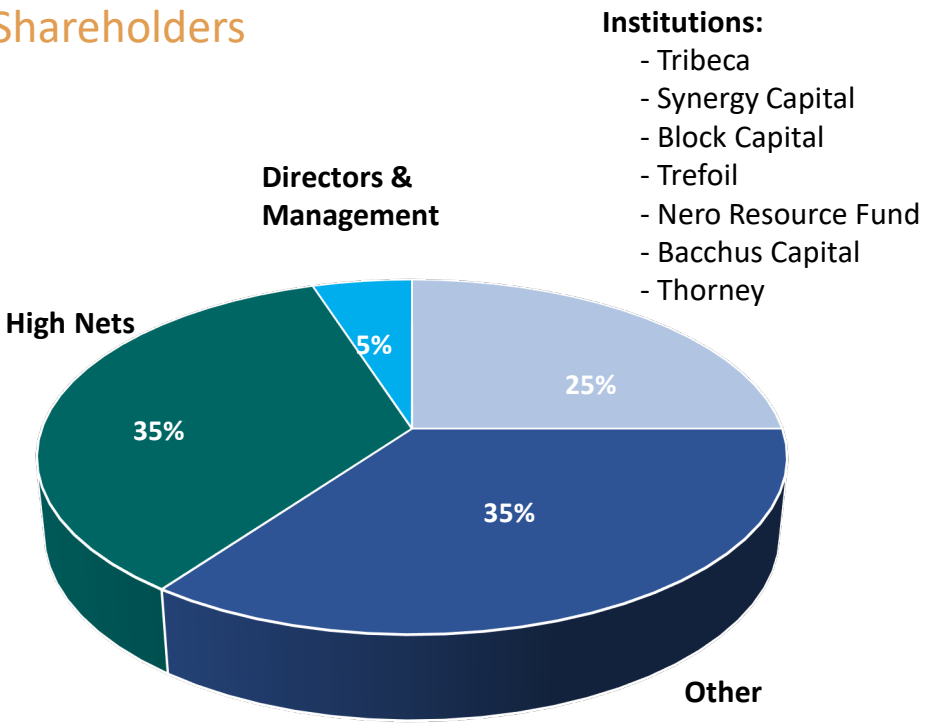
TTM	ASX
\$0.030	Share Price
1.691B	Issued Shares
\$50M	Market Cap
\$0.017/\$0.076	52 week low/ high
\$2.91M*	Cash

*AUD at 31 Dec 2023

Share Price



Shareholders



- 56 % held by Top 20 shareholders
- 72% held by Top 50 shareholders



Poised to Take Advantage of Forecast Gold Price

Significantly undervalued, development ready gold project with substantial resources set to grow



Source: abcbullion.com.au/products-pricing/gold

- Gold demand to hit record highs with central-bank buying
- Resources of 3.1Moz gold and 22Moz silver equates to and EV of ~**US\$10/oz**
- **TTM significantly undervalued compared to peer ASX listed gold explorers and developers**



Advancing Gold Development and Copper Exploration

Adding value through exploration, resource growth and development studies



- ✓ Dynasty Exploration programs expanding into new, highly prospective areas



- ✓ Dynasty Mineral Resource Update- resource growth and conversion



- ✓ Dynasty Pre-scoping study and preliminary metallurgical testwork- due Q3 2024



- ✓ Large-scale copper porphyry potential confirmed with drill ready targets at Linderos and Copper Duke Projects



- ✓ All environmental permits for exploration work and drilling in place

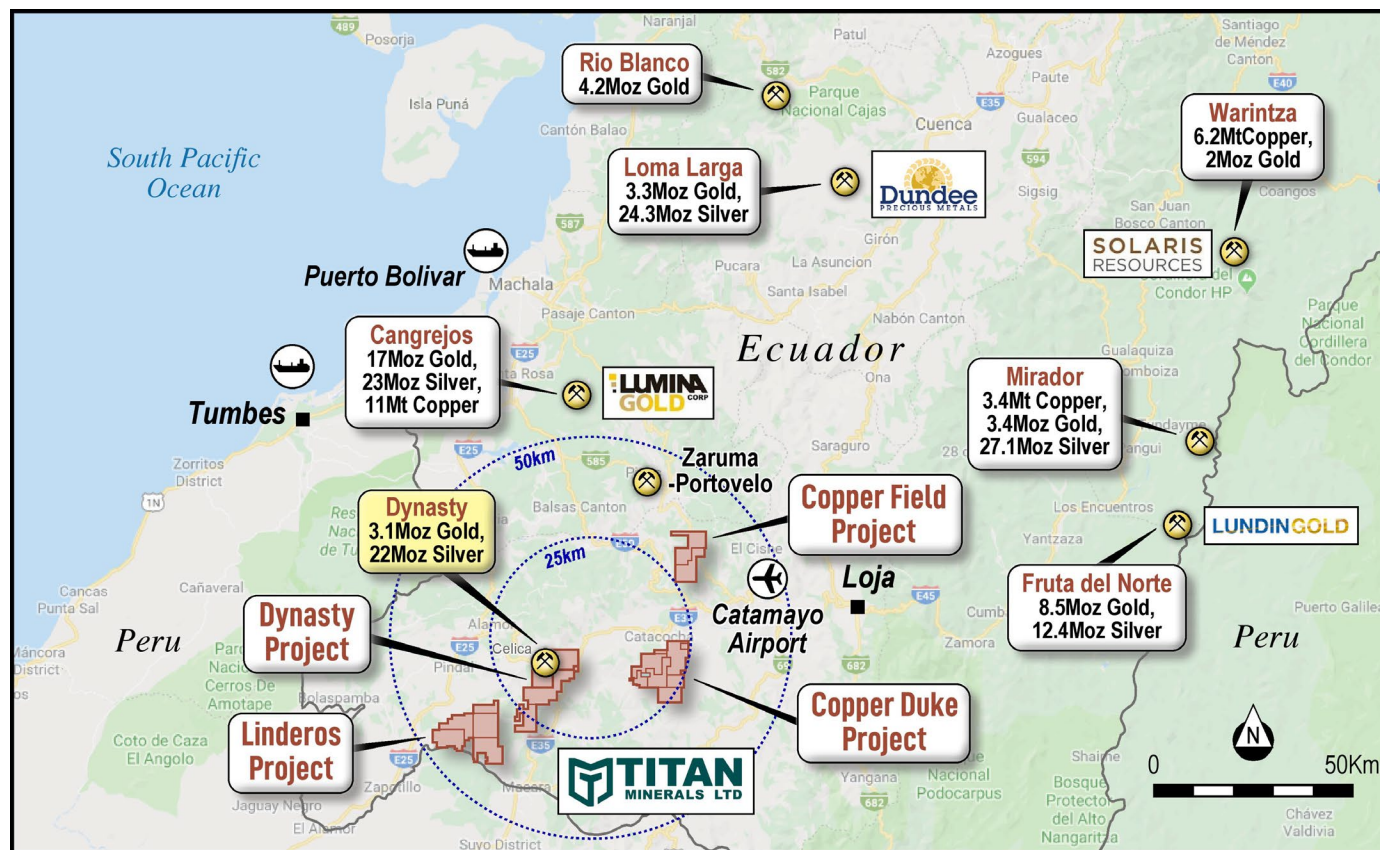


- ✓ Discussions with key potential strategic partners well advanced



Mining Investment Growing Momentum

Investment in new jurisdictions to meet future metals supply



2024

AngloAmerican amended JV with **Luminex** ~US\$42M for 70% (Pegasus Project)

Zijin Mining purchase 35% of **Solaris** for C\$135M (Warintza Project)

Barrick Commercial Investment Agreement signed - **Barrick** to invest US\$27.5M in exploration in Ecuador

Osisko \$50m royalty funding- Cascabel Project (SolGold)

Franco Nevada US\$100m royalty funding- Cascabel Project (SolGold)

Lundin Gold commences construction at US\$684M Fruta del Norte Project

Hanrine (Hancock) Commercial Agreement signed - **Hanrine** to invest US\$120M in exploration in Ecuador

Adventus Mining & Luminex Resources Merge + US\$17.1M Equity Financing (Ross Beaty & Wheaton Precious Metals)

Wheaton Precious Metals acquire US\$300m gold stream- Cangrejos Project (LuminaGold)

Newmont–Newcrest merger (US\$19.5B)

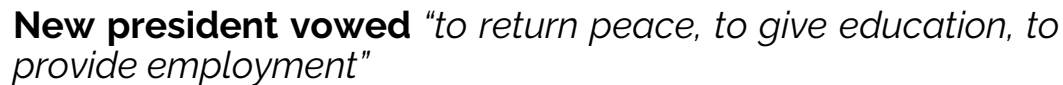
Lundin Gold- Fruta del Norte first Gold production

Newcrest & BHP both increase stake in **SolGold**

2017



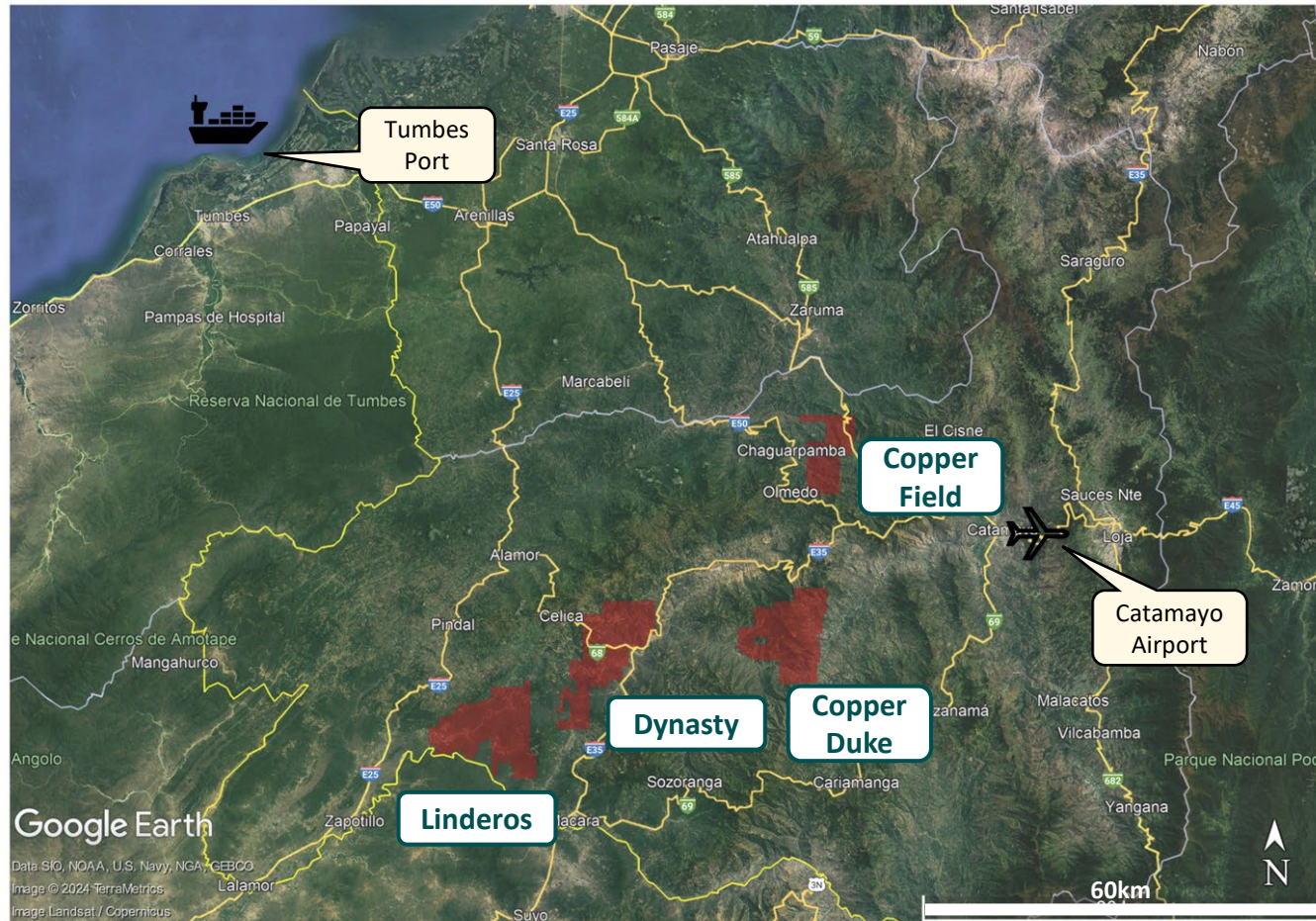
Government supports responsible mining as part of Ecuador's economic revitalization



3

Ecuador, Ready for Mining Revolution

Infrastructure Rich



➤ Good Access & Explorability

- ✓ Low Elevation (600-1300m RL)
- ✓ Catamayo Airport ~80 km east, daily flights
- ✓ Pan-American Highway runs alongside Dynasty Project providing good project access
- ✓ Existing tracks and roads within projects allow good access for exploration

➤ Infrastructure Rich

- ✓ Tumbes Port ~90km NW and Guayaquil Port, ~200km N
- ✓ Power- Majority of Ecuador's electricity sourced from Hydropower

➤ Workforce Ready

- ✓ Loja City ~100 km by road, skilled workforce
- ✓ Nearby towns provide labour and facilities to support exploration and mining

The Projects



Large-scale, advanced gold-copper exploration projects in emerging Tier 1 mining jurisdiction

Dynasty Gold Project (100%, 139km²)

- ❑ Substantial Mineral Resource of **3.1Moz gold and 22Moz silver** established
- ❑ Large epithermal gold district, opportunity to substantially grow resources

Linderos Project (100%, 143km²)

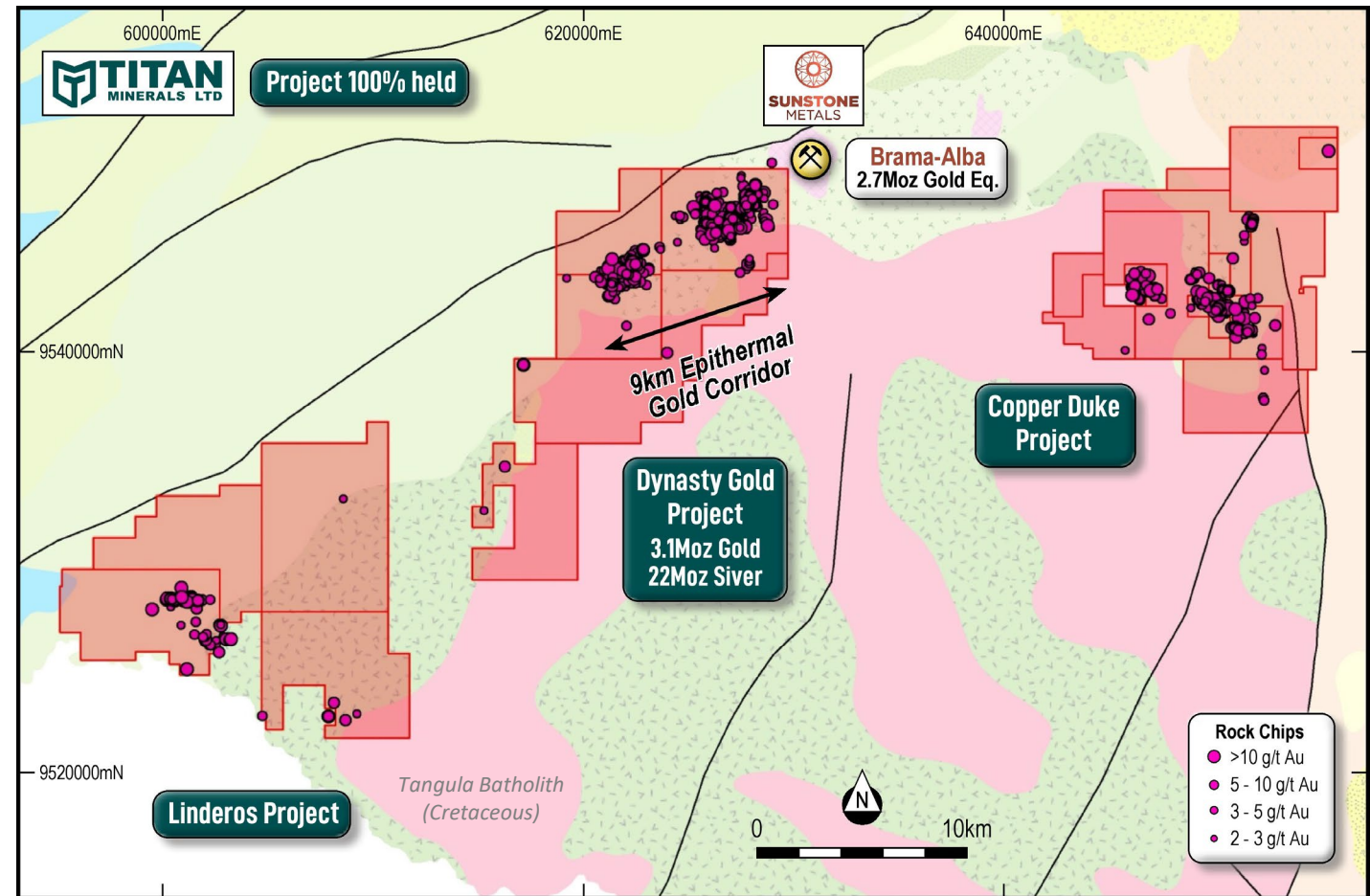
- ❑ **Porphyry copper and epithermal gold-silver systems confirmed by drilling**

Copper Duke Project (100%, 131km²)

- ❑ **Evidence for large-scale porphyry copper** systems and epithermal gold in geophysics, surface mapping and geochemistry

Copper Field Project (100%, 65km²)

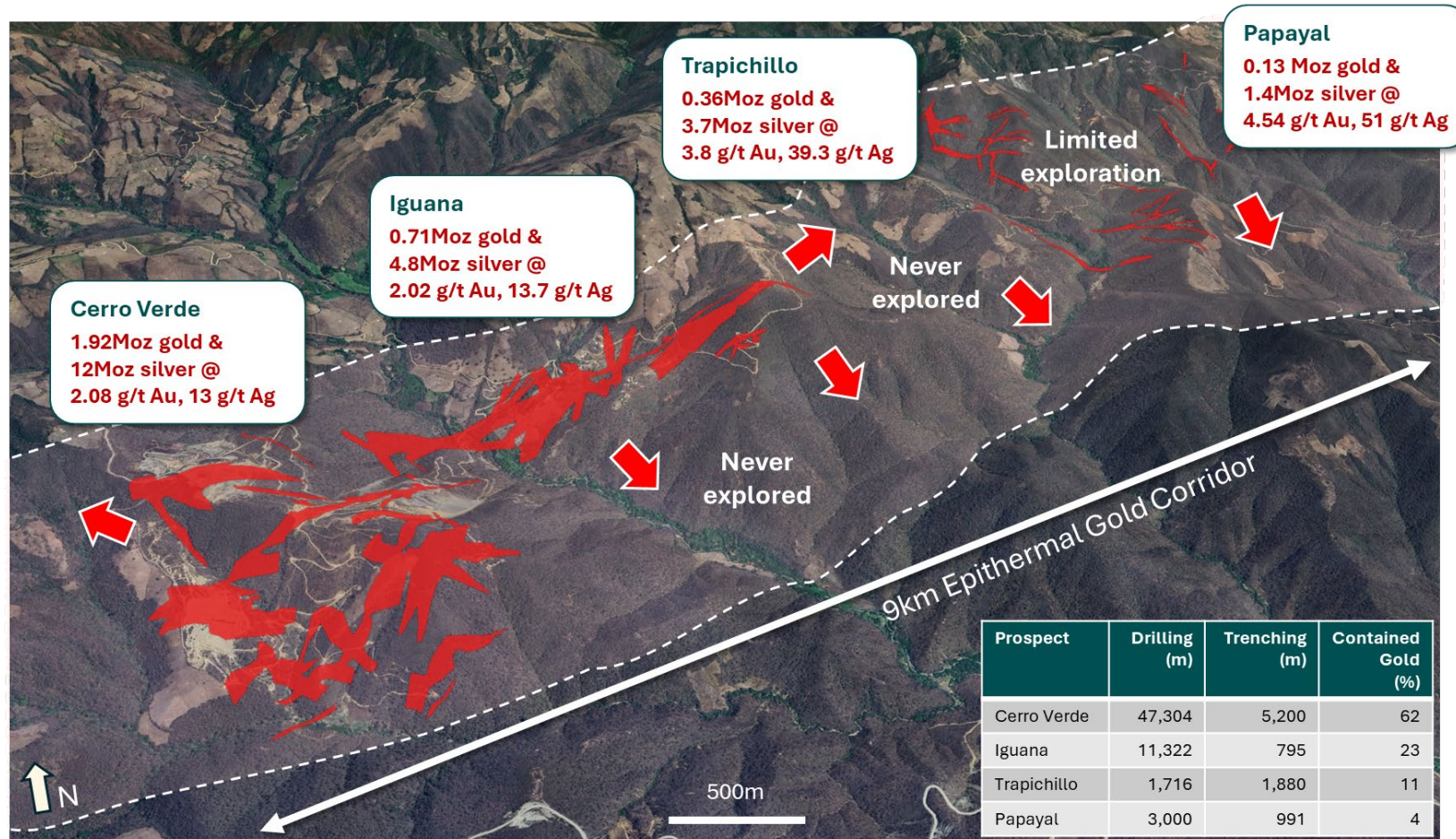
- ❑ Early-stage, evidence for precious and base metal epithermal systems



Dynasty Gold Project



Flagship project with substantial resources set to rapidly grow



Dynasty Project displaying Indicated and Inferred Mineral Resources. NB. Resources Extend from Surface

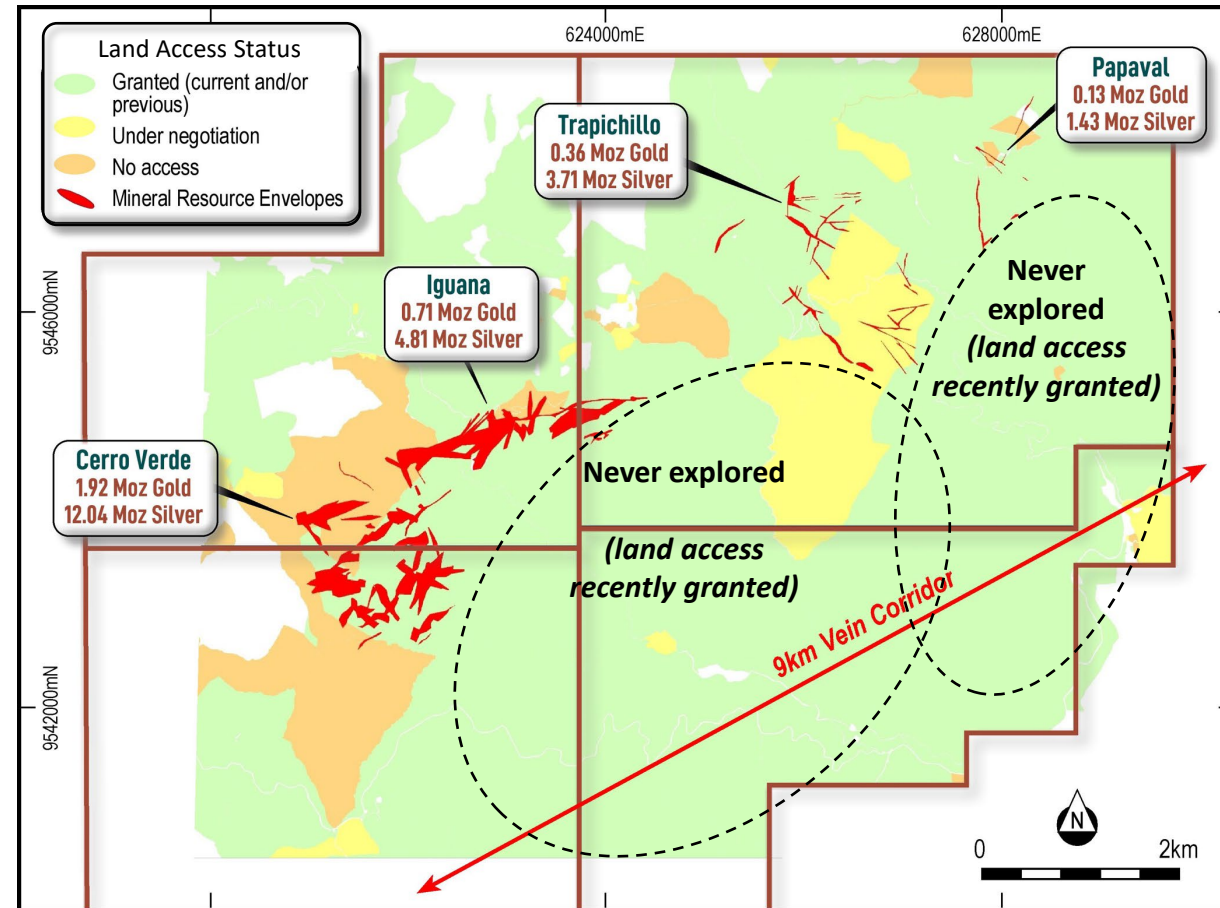
- 9km epithermal gold corridor hosting substantial resource of **3.1Moz gold and 22Moz silver @ 2.23 g/t Au, 15.7 g/t Ag** extending from surface
- High-grade resources of **2.09Moz gold and 13.33Moz silver @ 3.77 g/t Au, 24.0g/t Ag**
- **52% of resources (1.62Moz)** contained within top 100m from surface
- **82% of resources (2.55Moz)** contained within top 200m from surface
- **39% Indicated**, 61% Inferred
- **Cerro Verde- 51% Indicated Resources** with preliminary pit optimisation indicating pit depths of 350-400m

Dynasty Gold Project



Relationships with communities continue to grow, unlocking substantial new areas

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



Dynasty Land Access Map, updated February 2024



Dynasty Gold Project



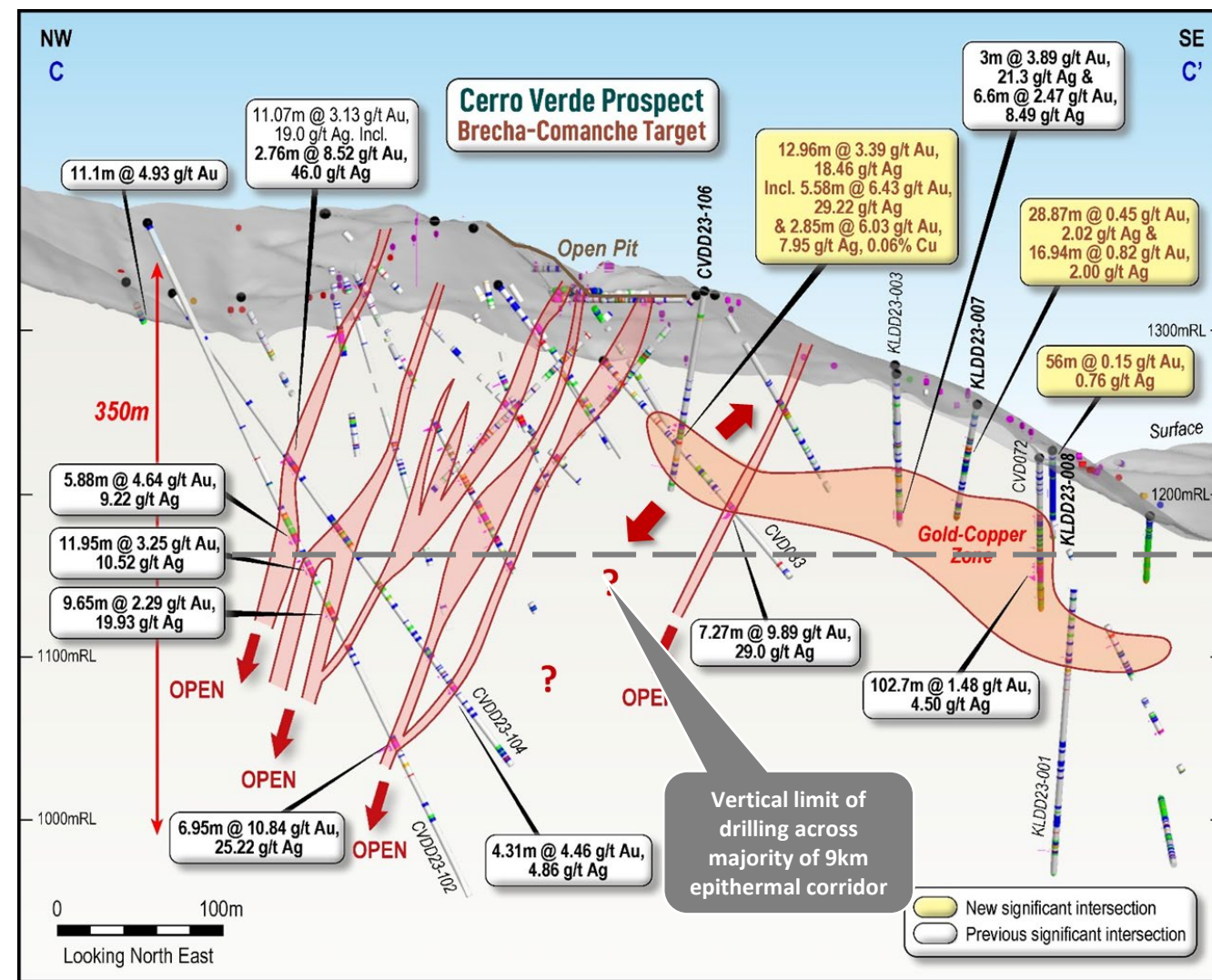
Mineralisation open along entire 9km corridor

Mineralisation defined to **350m** below surface at Brecha-Comanche target, Cerro Verde - open at depth

Majority of Dynasty epithermal gold system drilled to < 200m depth- **entire 9km system open at depth**

Potential to add **substantial resources** by targeting lateral and depth extensions

Exploration programs targeting **new areas never previously explored**

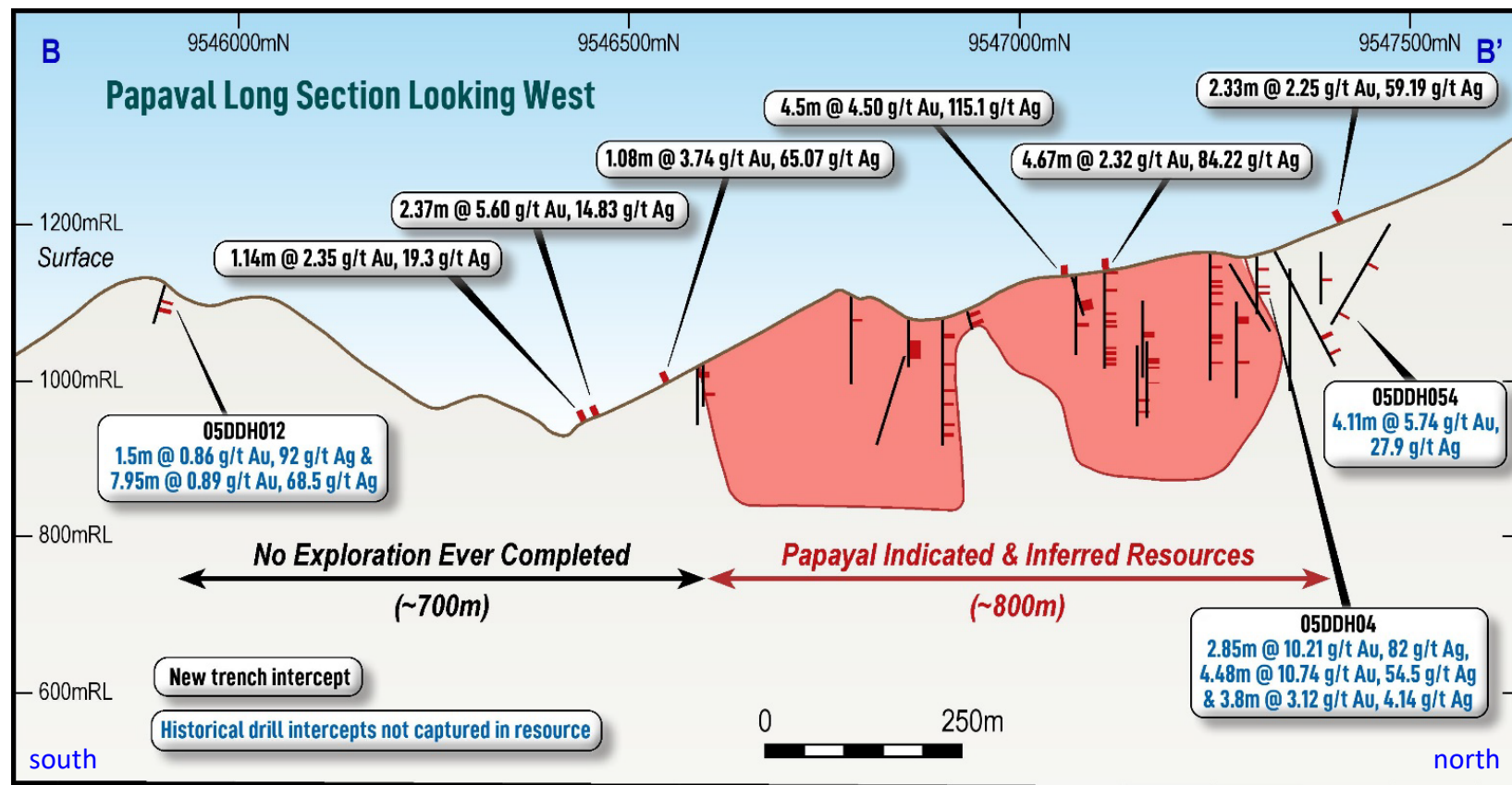


Brecha-Comanche Cross Section (Cerro Verde) displaying significant drill intercepts

Dynasty Gold Project



Papayal delivers high grade gold in growth drilling



- Drill and trench results highlight presence of **strong gold and silver mineralisation outside current resources at Papayal**

- First drilling into Julia vein system returned:
 - **5.27m @ 3.53 g/t Au, 72.3 g/t Ag** from 85.81m,
incl. 0.66m @ 25.1 g/t Au, 492 g/t Ag.
 - **0.40m @ 65.5 g/t Au, 83.2 g/t Ag** from 81.62m.
 - **2.00m @ 5.29 g/t Au, 32.4 g/t Ag** from 12.0m
- Trench results have extended Papayal mineralisation south and north:
 - **2.37m @ 5.6 g/t Au, 14.8 g/t Ag**
 - **2.33m @ 2.25 g/t Au, 59 g/t Ag**



Dynasty Gold Project

Early workstreams underway to optimise development strategy and define future workstreams

Pre-Scoping Study

- ABGM Mining Engineers have commenced pre-scoping study workstream including:
 - ✓ Pit optimization/ pit envelopes
 - ✓ Techno Model Economic assessment
 - ✓ Optimal mining rates and grade cut-offs
 - ✓ Mine scheduling- stockpile optimisation, mining and grade control
 - ✓ Viability of ore pre-concentration
 - ✓ Areas for underground development, ore stope wireframes
 - ✓ Determine additional exploration/ resource extension areas
 - ✓ Scoping Study recommendations report

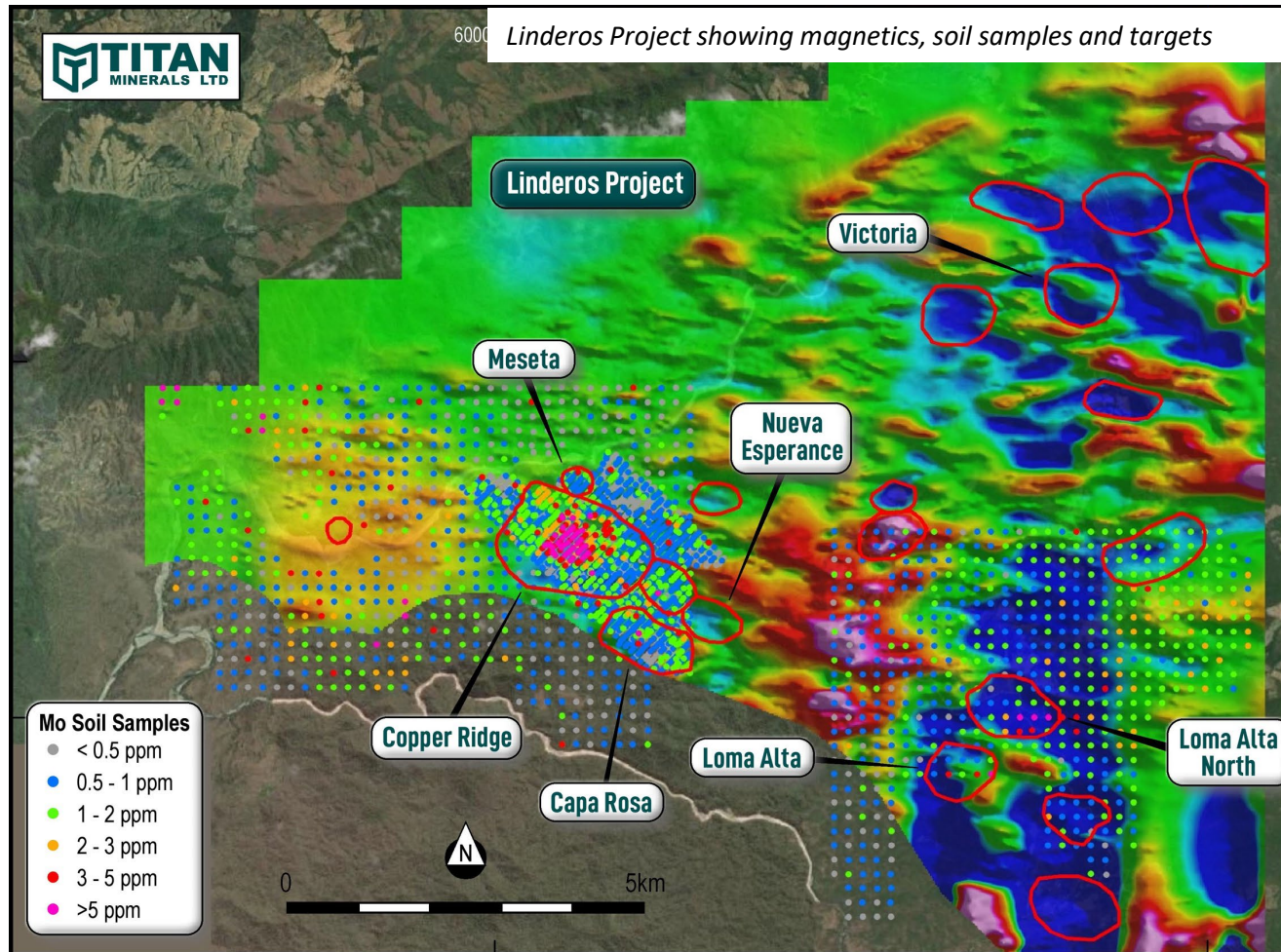
Preliminary Metallurgy

- Preliminary metallurgical testwork has commenced on Cerro Verde¹ samples to assess potential recoveries for Au, Ag and Cu in oxide and sulphide ore
- Metallurgical testwork includes:
 - ✓ Grind establishment
 - ✓ Rougher Floats
 - ✓ Cleaner Float
 - ✓ Cyanide Bottle Rolls- Feed and float tails

1. Cerro Verde represents 2/3 of Dynasty Mineral Resources

Linderos Project

Pipeline of porphyry and epithermal prospects



- **Substantial porphyry copper system** at Copper Ridge and **high-grade epithermal gold** system at Meseta Gold
- Exploration focus on defining further porphyry copper mineralisation
- Soil geochemistry indicates presence of multiple porphyry copper and epithermal gold systems across the project



Copper Ridge porphyry veining at surface



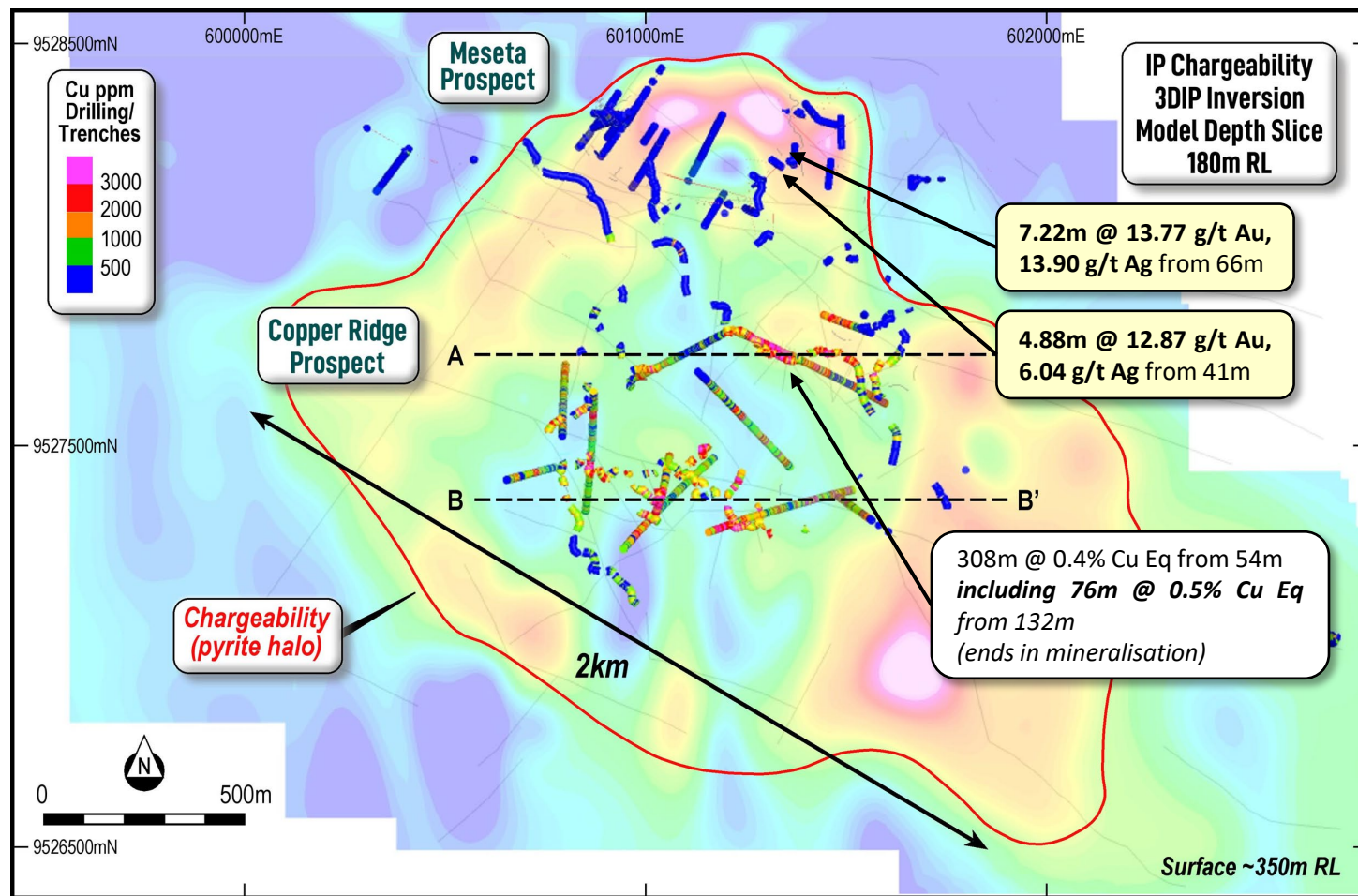
Copper Ridge hand specimen with Cu oxides

Linderos Project



2km chargeability halo highlights large-scale copper porphyry footprint

- Porphyry copper system confirmed from surface to 500m depth, mineralisation remains open.
- Significant porphyry drill intercepts include:
 - 308m @ 0.4% Cu Eq from 54m, including **76m @ 0.5% Cu Eq from 132m**
- High grade epithermal gold system confirmed at Meseta Gold prospect, mineralisation remains open
- Significant epithermal gold results include:
 - **7.22m grading 13.77 g/t Au, 12.9 g/t Ag from 66m**
 - **4.88m grading 12.87 g/t Au, 6.0 g/t Ag from 41m**
- Large-scale (2km) 3D IP chargeability anomaly indicates larger porphyry system than recognised by drilling



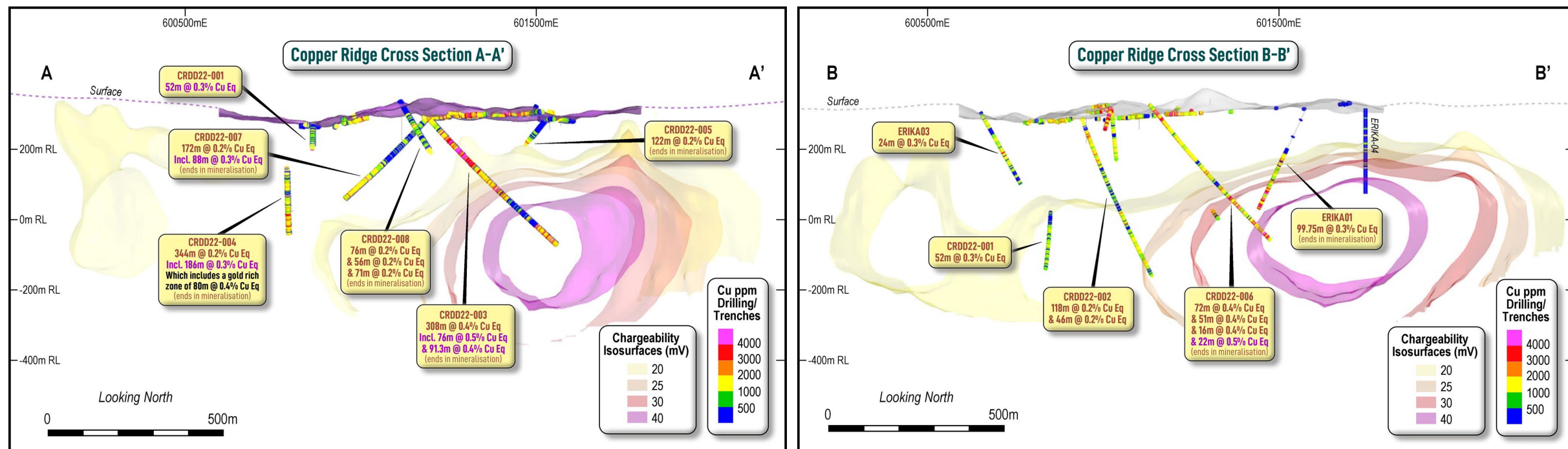
3D IP Chargeability Depth Slice at 180mRL, approximately 170m below surface

Linderos Project



Copper Ridge drilling ends in porphyry copper mineralisation, open laterally and at depth

- IP survey confirms Copper Ridge Porphyry and Meeta epithermal gold systems linked
- Much larger porphyry system potential confirmed by IP survey- chargeability mapping phyllic (pyrite) alteration well beyond currently defined porphyry mineralisation
- Meseta trenching and mapping has unveiled phyllic altered diorite porphyry, suggesting proximal to porphyry copper system

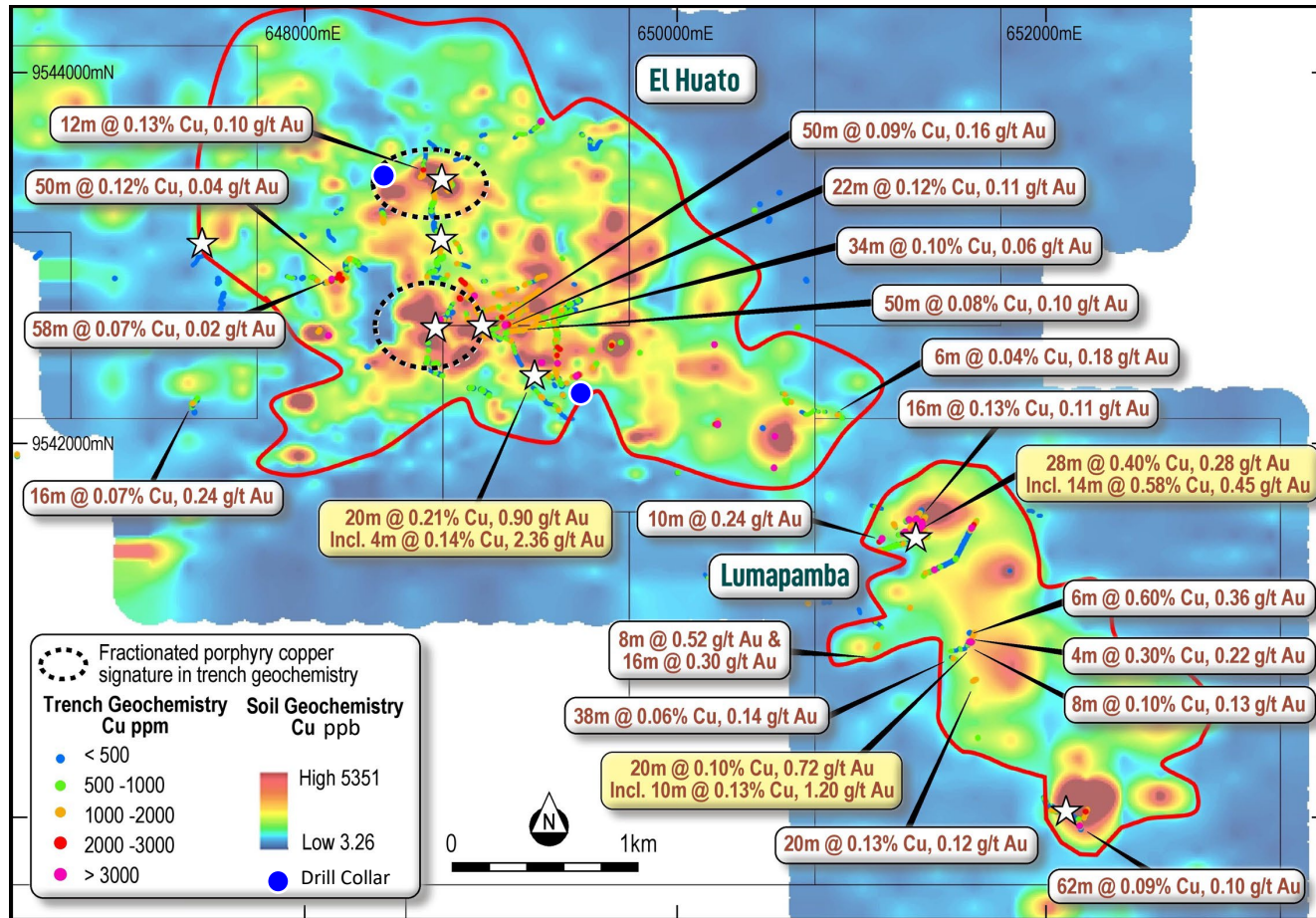


Cross Sections are east-west oriented and show IP chargeability isosurfaces, drillholes and trenches displaying copper.

Copper Duke Project



Geochemical signature akin to Tier 1 porphyry deposits



Plan View of El Huato and Lumapamba prospects displaying soil and trench samples (Cu ppm)

- 7km porphyry alteration footprint highlighted by magnetics, soil geochemistry, and mapping
- Diorite porphyry host rock derived from high pressure hydrous melt ie. same magma type of global Tier 1 porphyry systems
- Age Dating confirms Palaeocene- same age as giant porphyry copper deposits of Peru
- Multi-phase outcropping targets – copper porphyry, intrusion related gold, breccia copper and epithermal gold





Long Term Partnerships Developed 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.

Directors & Management



Track record of creating shareholder value through discovery, development & deal making



MELANIE LEIGHTON
CHIEF EXECUTIVE OFFICER



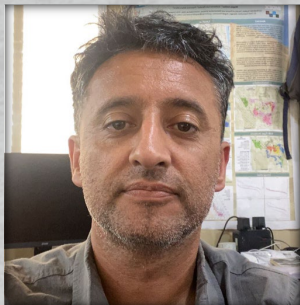
PETER COOK
NON- EXEC CHAIRMAN



MATTHEW CARR
EXECUTIVE DIRECTOR



BARRY BOURNE
NON-EXEC DIRECTOR



PABLO MORELLI
EXPLORATION MANAGER



CECILIA PEÑAHERRERA
CSR MANAGER



FERNANDO INCA
OPERATIONS MANAGER



JOHANNA YUNGA
ENVIRONMENTAL
MANAGER



KATHY SKEAD
DATABASE MANAGER



MIKE SKEAD
CHIEF TECHNICAL
ADVISOR



Next Steps and Upcoming Milestones

Exploration in new areas, resource growth and development studies

1.

Q1 + Q2 2024- Dynasty exploration work programs in new, highly prospective areas. New results and definition of new resource growth targets.

2.

Q2 2024- Dynasty Mineral Resource Update targeting growth and classification upgrades through improved geological confidence.

3.

Q3 2024- Dynasty preliminary metallurgical testwork results.

4.

Q3 2024- Dynasty Pre-scoping study results.

5.

Drill ready, fully permitted targets at Linderos and Copper Duke Projects- discussions with key potential strategic partners well advanced.





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



ASX: TTM

TITANMINERALS.COM.AU