



Emerging Gold Development & Advanced Copper Exploration in Ecuador

Investor Presentation
27 March 2024



ASX: TTM





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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

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



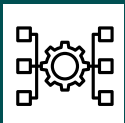
Significant potential for rapid resource growth and new discovery



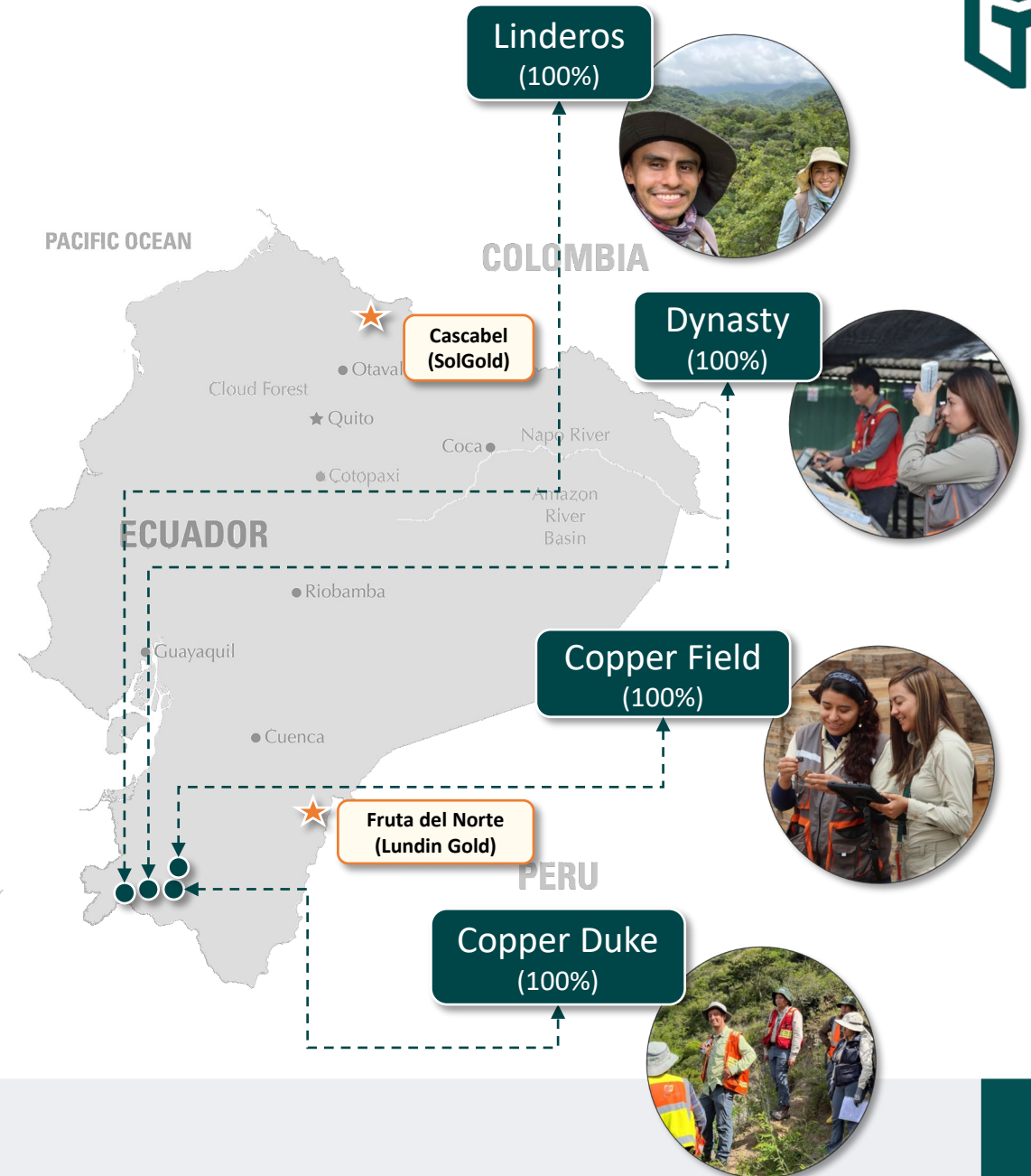
Ecuador- An emerging Tier 1 mining jurisdiction with significant government support



Strong community engagement and support with social license to operate



Experienced board, strong management and technical capability





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

- Resources of 3.1Moz gold and 22Moz silver equates to EV of ~**US\$10/ oz**
- TTM is significantly undervalued compared to peer gold explorers and developers**

Emerging Gold Developer & Porphyry Copper Explorer



Corporate Snapshot

Capital Structure

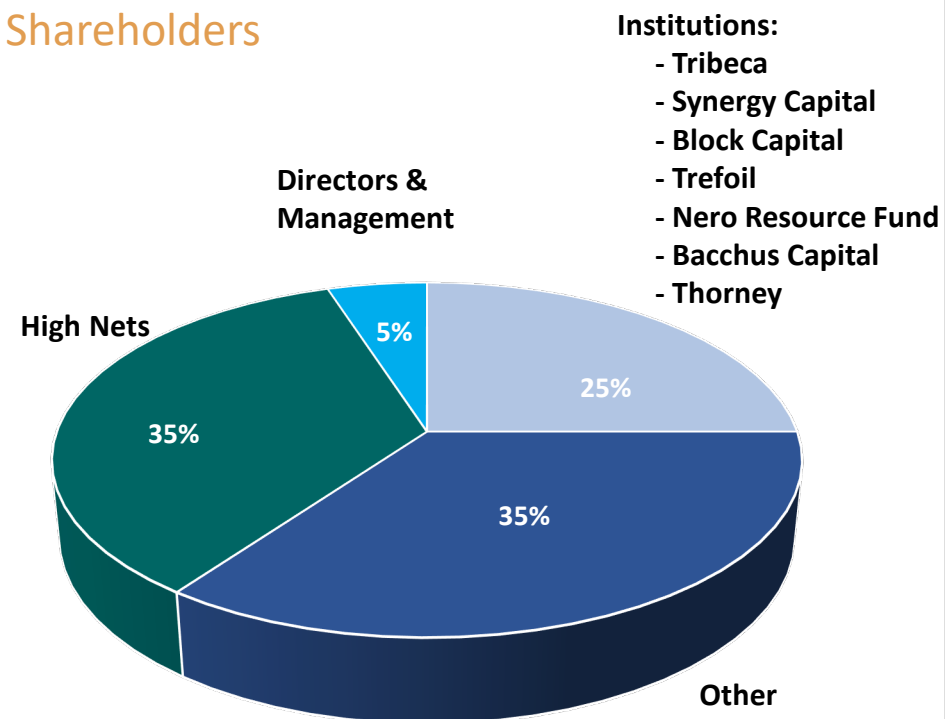
TTM	ASX
\$0.031	Share Price
1.8B	Issued Shares
\$55M	Market Cap
\$0.017/\$0.072	52 week low/ high
\$2.91M*	Cash

*AUD at 31 Dec 2023

Share Price



Shareholders






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



Advancing Gold Development and Copper Exploration

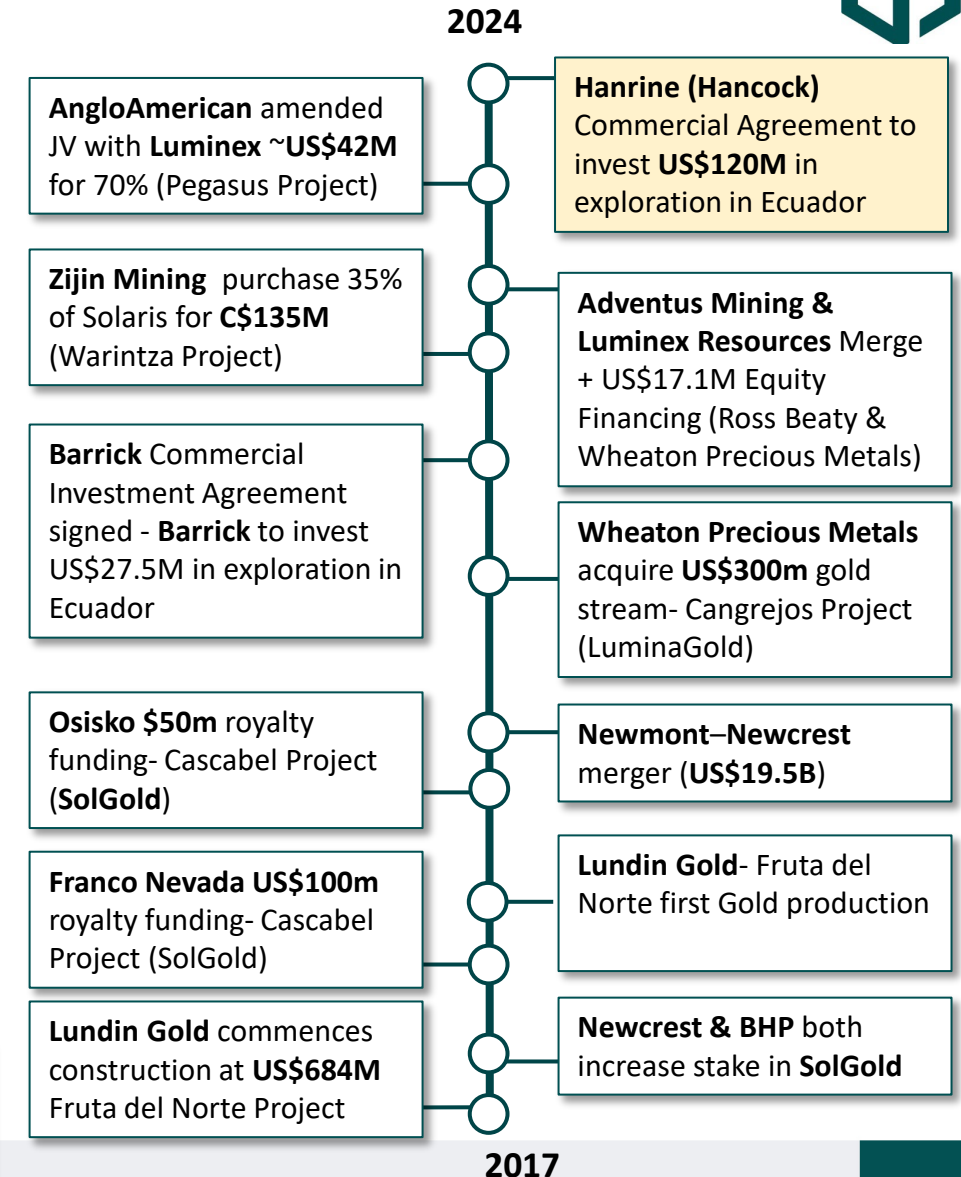
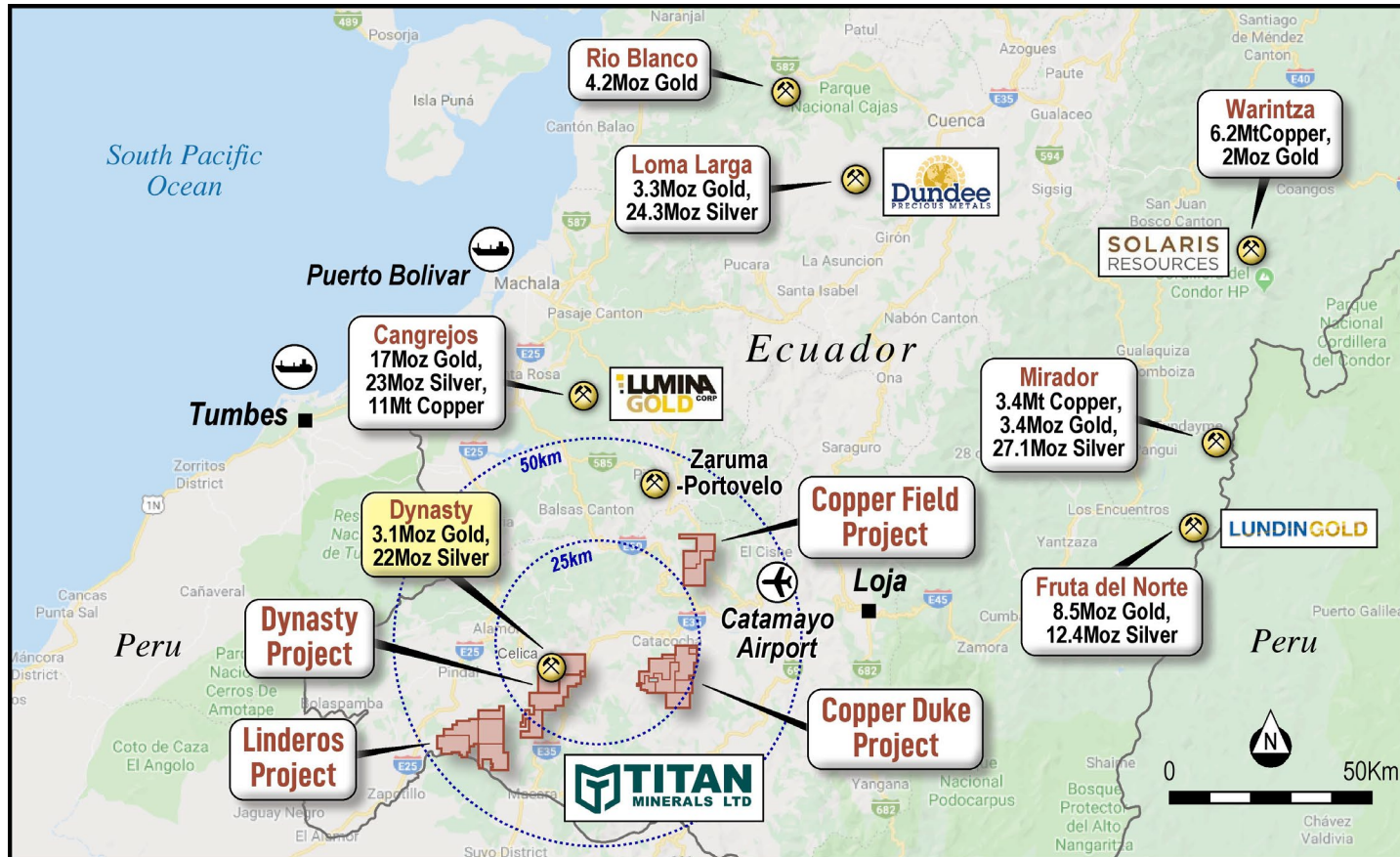
Adding value through exploration, resource growth and development studies

-  ✓ Dynasty Exploration programs expanded into new, highly prospective areas
-  ✓ Dynasty Mineral Resource Update- resource growth and conversion
-  ✓ Dynasty Pre-scoping study and preliminary metallurgical testwork
-  ✓ Large-scale copper 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



Government Supportive of Responsible Mining

Emerging Tier 1 mining jurisdiction



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



President Noboa has given environmental ministers the KPI of permits approved- no roadblocks to mining



Lowest effective tax rates, low inflation, USD economy and fastest permitting in Latam

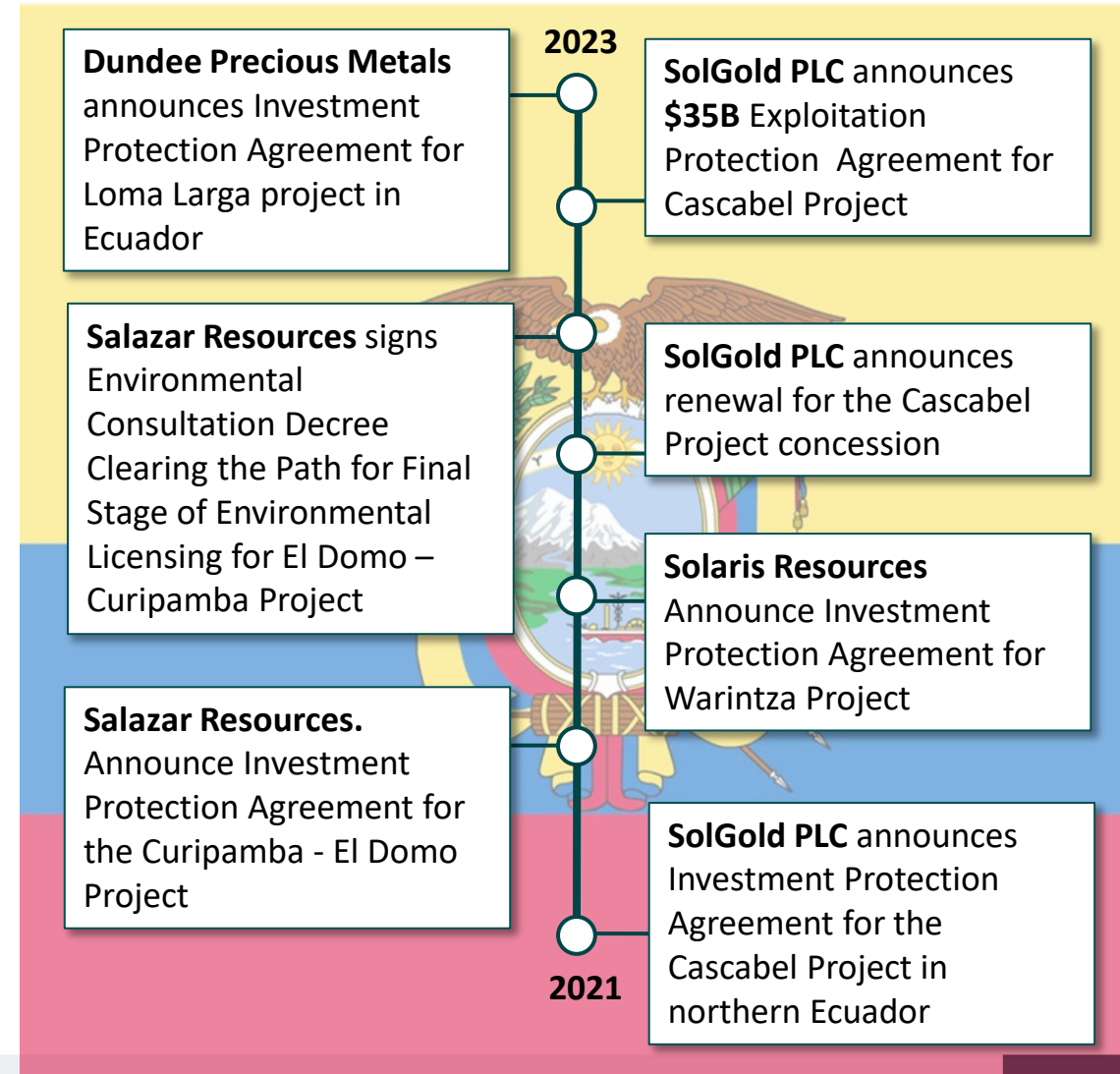


Mining contributes to employment, infrastructure and communities, currently ~1% GDP, targeting 10-12%



Several major projects advancing through development, with 2 major mines in production

Government support for mining





Development Ready Gold & Porphyry Copper Exploration

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

Dynasty Gold Project (100%, 139km²)

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

Linderos Project (100%, 143km²)

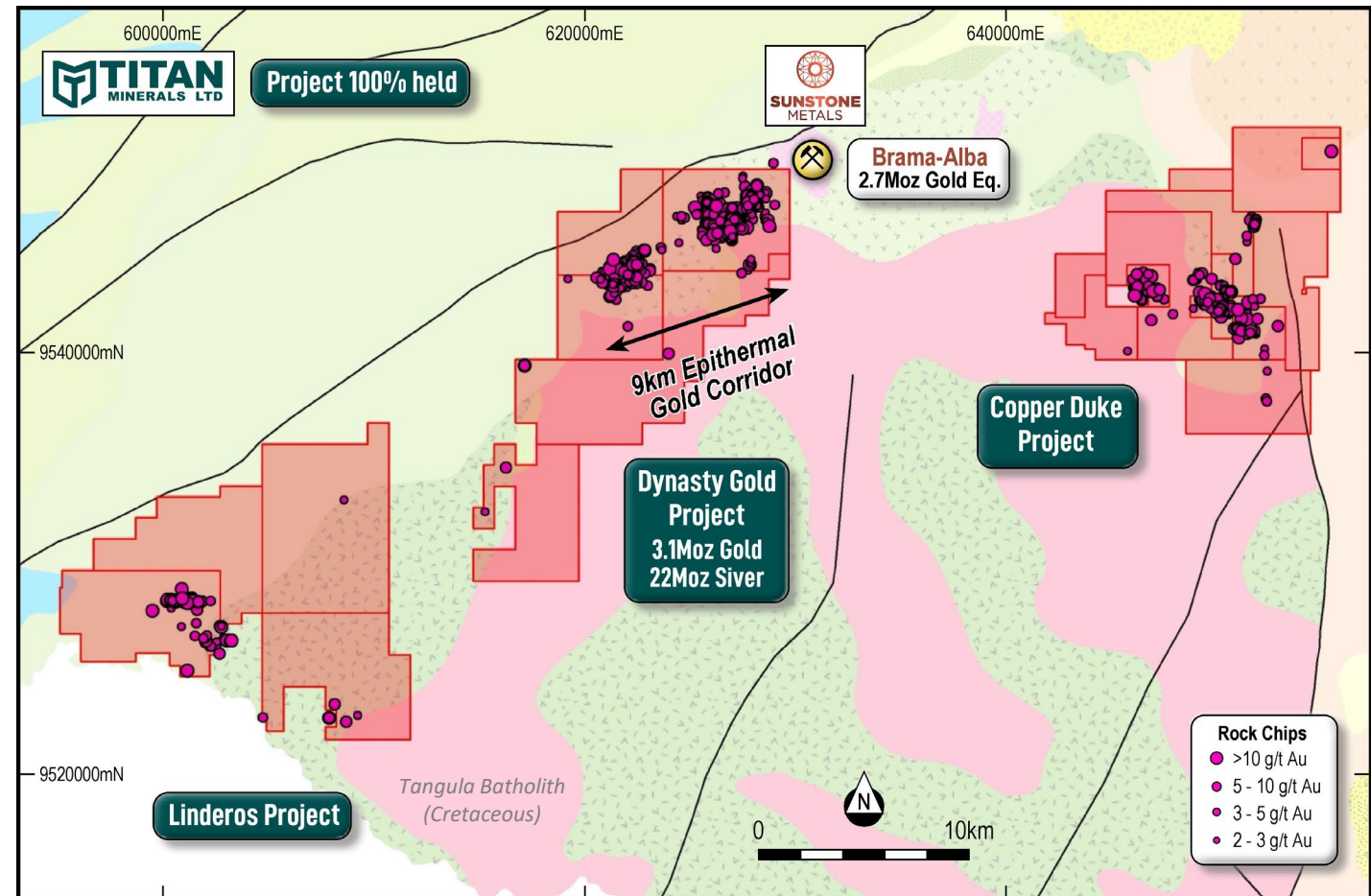
- ❑ Porphyry copper and epithermal gold-silver systems confirmed by drilling

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

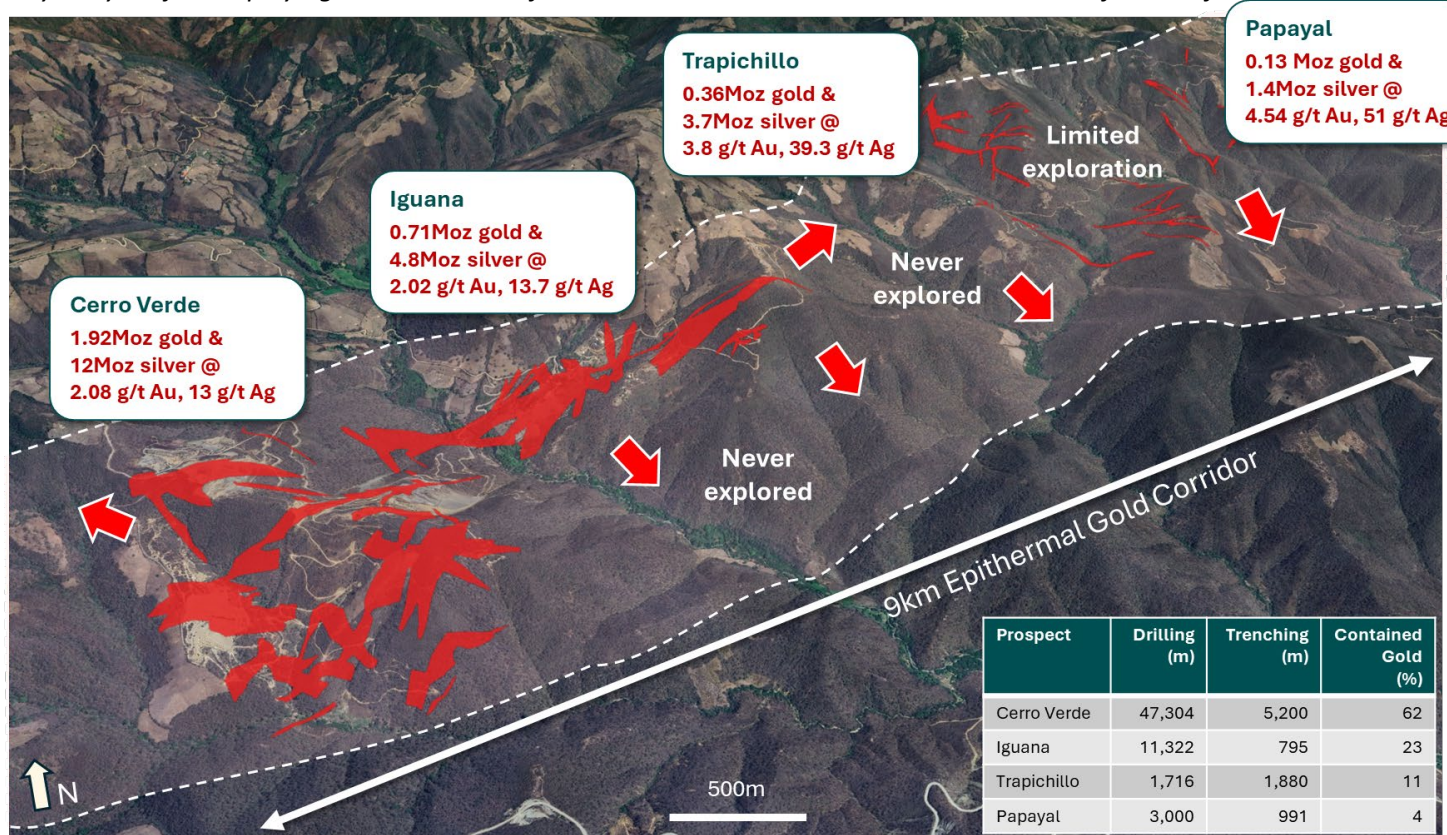


Dynasty Gold Project- Mineral Resource



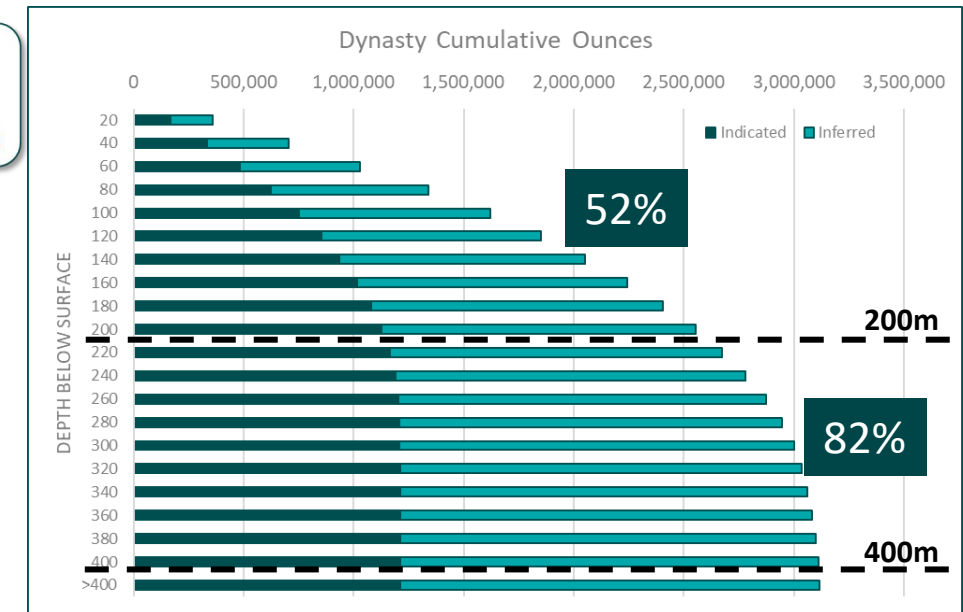
Flagship project with substantial resources set to rapidly grow

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



- gkm epithermal gold corridor hosting substantial resource of **3.1Moz gold and 22Moz silver @ 2.23 g/t Au, 15.7 g/t Ag from surface**

Dynasty Cumulative Resource By Depth

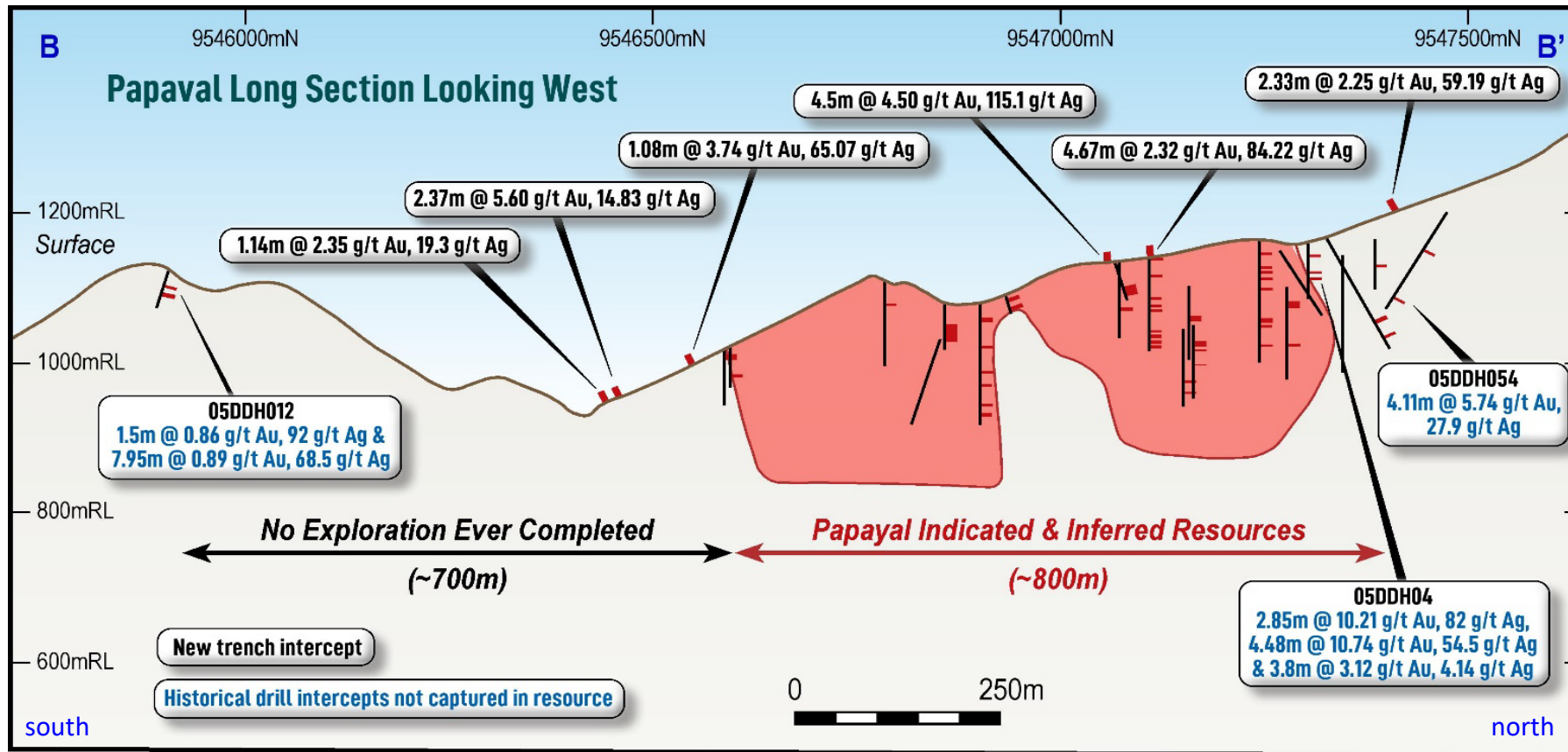


- High-grade resources of **2.09Moz gold and 13.33Moz silver @ 3.77 g/t Au, 24.0g/t Ag**
- 39% Indicated, 61% Inferred**
- Cerro Verde- 51% Indicated Resources, preliminary pit optimisation to 350-400m**

Dynasty Gold Project- Resource Growth



Papayal delivers high grade gold pointing towards resource growth



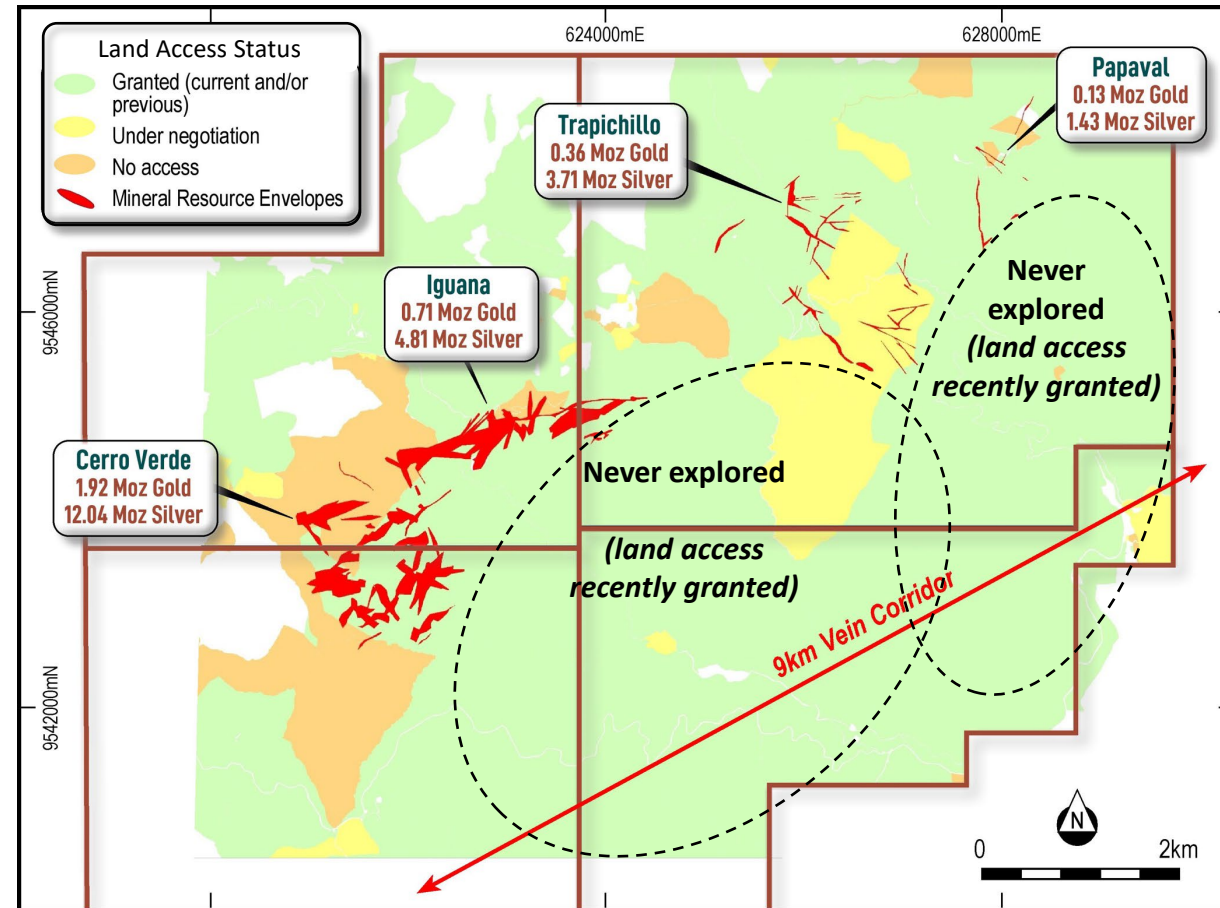
- Drill and trench results highlight presence of **strong gold and silver mineralisation outside current resources at Papayal prospect**

Dynasty Gold Project- Communities



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
- 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, updated February 2024

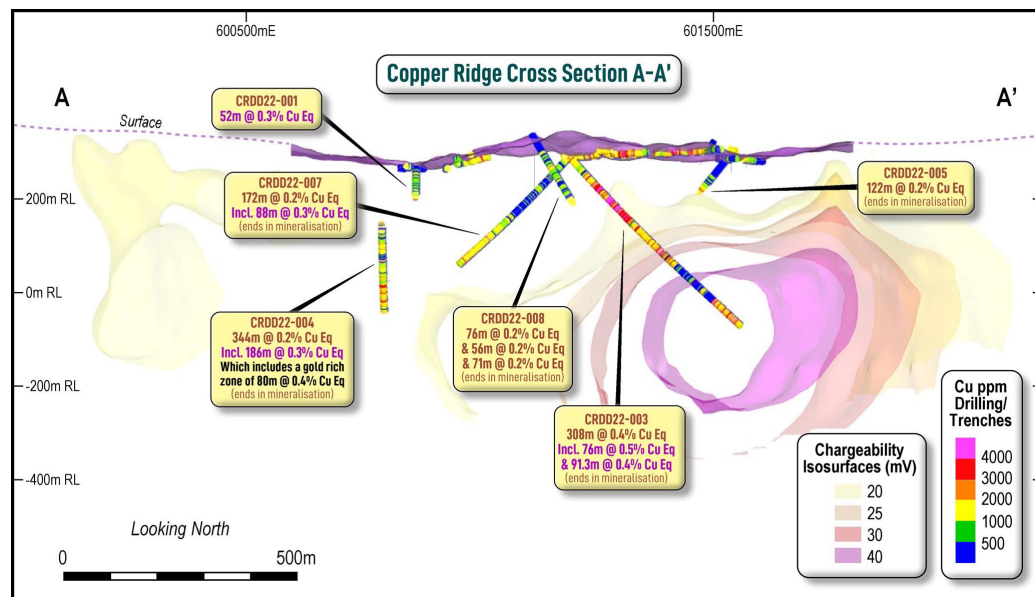


Linderos Copper Project

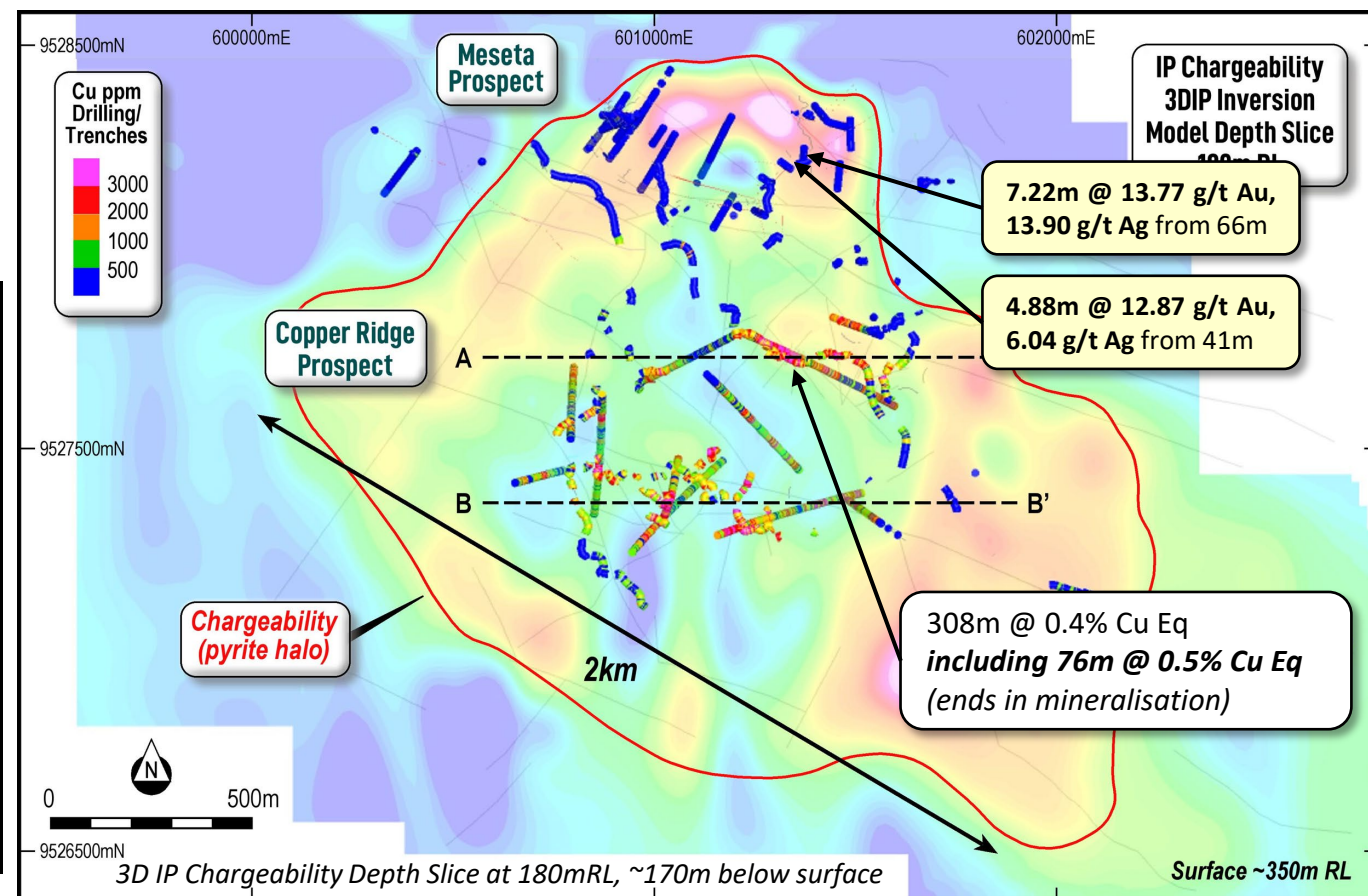


Large-scale 2km copper porphyry footprint highlighted by chargeability halo

- Porphyry copper system confirmed from surface to 500m depth, mineralisation remains open.
- Much larger porphyry system potential confirmed by IP survey- chargeability mapping phyllic (pyrite) alteration well beyond currently defined porphyry mineralisation



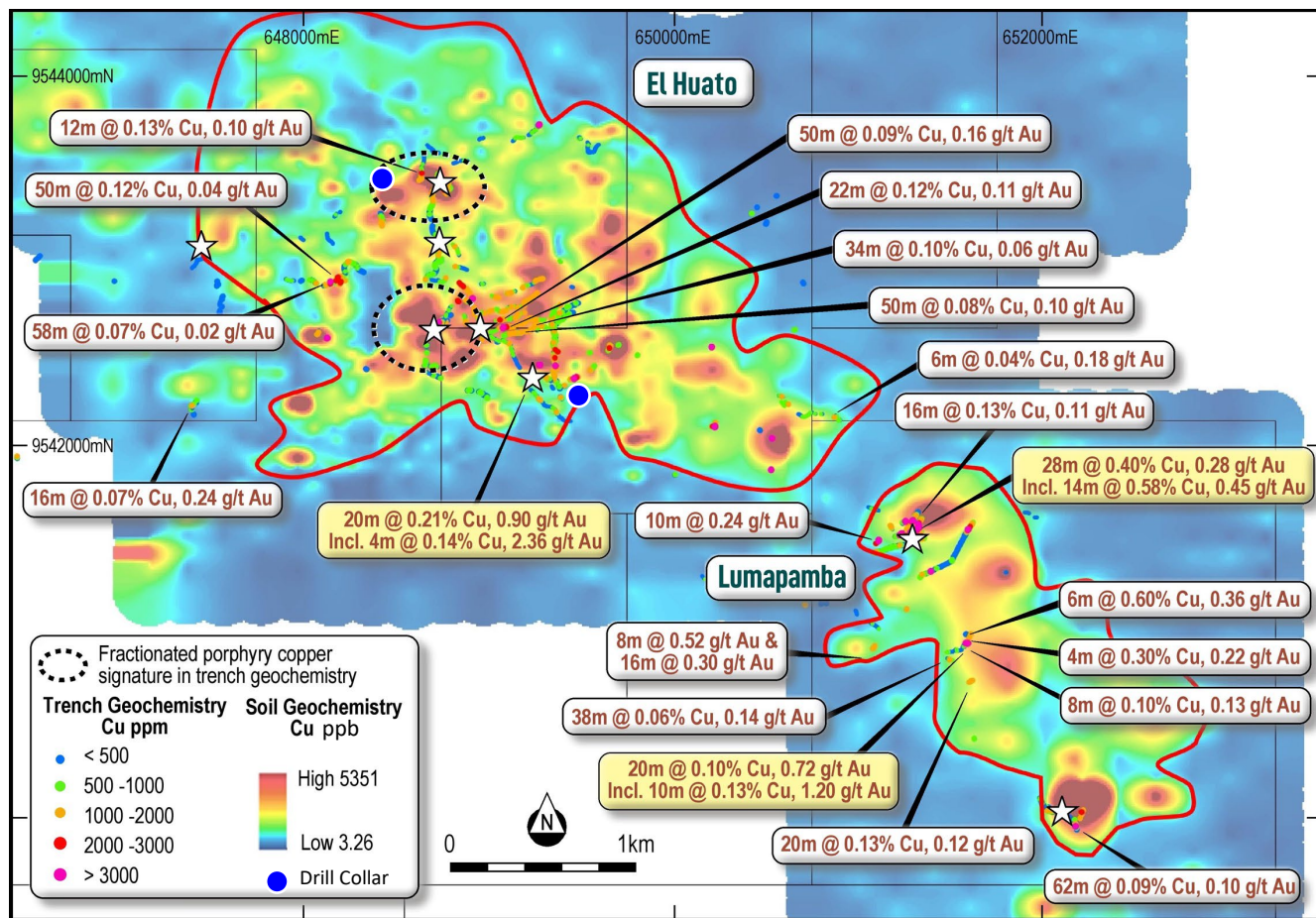
Cross Section A-A' showing IP chargeability isosurfaces, drillholes and trenches displaying copper.



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 derived from same magma type of global Tier 1 porphyry systems
- Age dating confirms mineralisation to be same age as mega-porphyry copper deposits of Peru
- Multi-phase outcropping targets – copper porphyry, intrusion related gold, breccia copper and epithermal gold
- Long-lived fertile system





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.



Next Steps and Upcoming Milestones

Exploration in new areas, resource growth and development studies

1.

Q2 2024- Dynasty exploration work programs in new, highly prospective areas. 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.





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