



Substantial Gold Development, with Copper Porphyry Potential in Ecuador

Corporate Presentation

July 2023

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	Tonnes (M)	Indicated		Contained Metal		Inferred Tonnes (M)	Grade		Contained Metal		Tonnes (M)	Total		Contained Metal			
		Grade (g/t)		(Moz)			(g/t)		(Moz)			(g/t)		(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 Summary

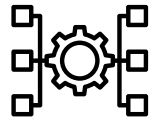
Unlocking the value of world class gold and copper assets through responsible exploration



Large Scale Resource at Dynasty-
3.1 Moz Gold & 22 Moz Silver



Ecuador – Regulatory & Fiscal Stability, an emerging Tier 1 mining jurisdiction



Strong Management & Technical Capability



World-Class Gold-Copper Projects- meaningful exposure to large-scale gold and copper



Significant Potential for Rapid Resource Growth & New Discovery



Social License to Operate- strong community engagement and support



Significant Value Proposition, Potential Tier 1 Discovery & Substantial Resource Growth Options



Corporate Snapshot



MELANIE LEIGHTON
CHIEF EXECUTIVE OFFICER

Geologist & Business Master
“Strong Latam Experience”

20 years’ experience in mining industry. Previous roles include executive management roles with Hot Chili Ltd and Harmony Gold. Serves as Non-Executive director for other ASX listed companies GBR and IND.



PETER COOK
NON- EXEC CHAIRMAN

Geologist & Mineral Economist
“Proven Mine Builder”

+35 years' experience in exploration, operations and corporate management of mining companies. Founded or served as Managing Director and Chairman for many successful mining and exploration companies in gold and base metals.



MATTHEW CARR
EXECUTIVE DIRECTOR

Entrepreneur
“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
“Renowned Innovator”

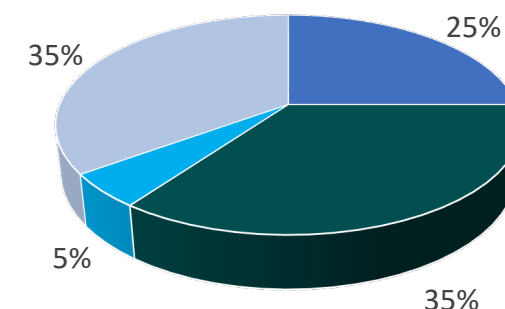
Principal Consultant at Terra Resources, specialising in geophysical services. Significant exploration success and leadership experience. Previously held senior and management roles with Barrick Gold and Homestake Gold.

Capital Structure

TTM	ASX
\$0.07*	Share Price (AUD)
1.41B	Issued & Outstanding Shares
~\$100M	Market Cap (AUD)
\$0.038/\$0.105	52 week high/ low (AUD)
\$2.0M	Cash & Receivables

*AUD

Shareholders



■ Institutional ■ High Net ■ Directors ■ Retail

Analyst
Coverage



The Titan Team



PABLO MORELLI
EXPLORATION MANAGER

Geologist with +15 years' experience in epithermal and porphyry systems. Recently worked on the Cerro Casale and Caspiche copper-gold projects in Chile, a JV between Newmont & Barrick Gold. Previously held roles with Barrick, Newmont, Kinross and Rio Tinto working in northern and central Chile, and Mexico.



CECILIA PEÑAHERRERA
CSR MANAGER

25 years' experience in community relations, land negotiation and acquisition, population resettlement, establishment of community development plans, compensation policies, management of social conflicts, which has allowed her to generate important strategic alliances with communities, authorities and local governments.



FERNANDO INCA
OPERATIONS MANAGER

Civil engineer with 14 years' experience in project management, public procurement, geotechnical engineering. He has worked in public and private companies in design, construction and supervision of hydroelectric projects, metal structures and tunnels in Ecuador, Chile, Bolivia and Costa Rica.



KATHY SKEAD
DATABASE MANAGER

Experienced GIS Specialist and Spatial Data Scientist with a demonstrated history of working in the geoscience industry. Master of Applied Science in Spatial Analysis for Public Health from Johns Hopkins University.



JOHANNA YUNGA
ENVIRONMENTAL MANAGER

Chemical engineer, with a master's degree in environmental management and a specialization in mining safety. Experience in the application of environmental regulations for Mining Operations.

Key Consultants



MIKE SKEAD
CHIEF TECHNICAL ADVISOR

Ex. GT Gold Corp, Newmont



FREDDY BRIONNES
LEGAL COUNSEL &
GOVERNMENT AFFAIRS
ADVISOR



Why Ecuador?

Emerging Tier 1 mining jurisdiction



Government supports **responsible** mining, considered critical to Ecuador's economic revitalization



General elections due in August- all viable parties recognize **mining as an economic imperative**



Mining Investment Attractiveness Index improved from 45 (2015) to 69 (2022)¹



Lowest effective tax rates, low inflation, US dollar-based economy and fastest permitting in Latam



Mining and exploration **contributing significantly to taxes, employment, infrastructure and communities**



Several major projects advancing through development and into production, with **2 major mines now in full production**

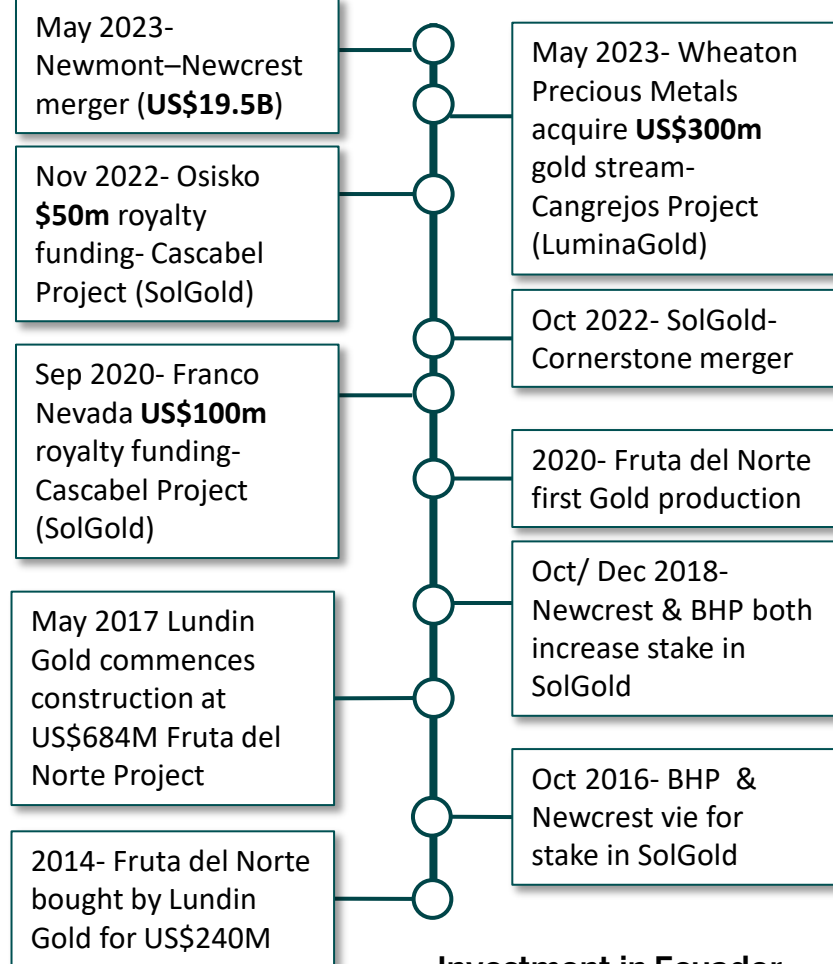
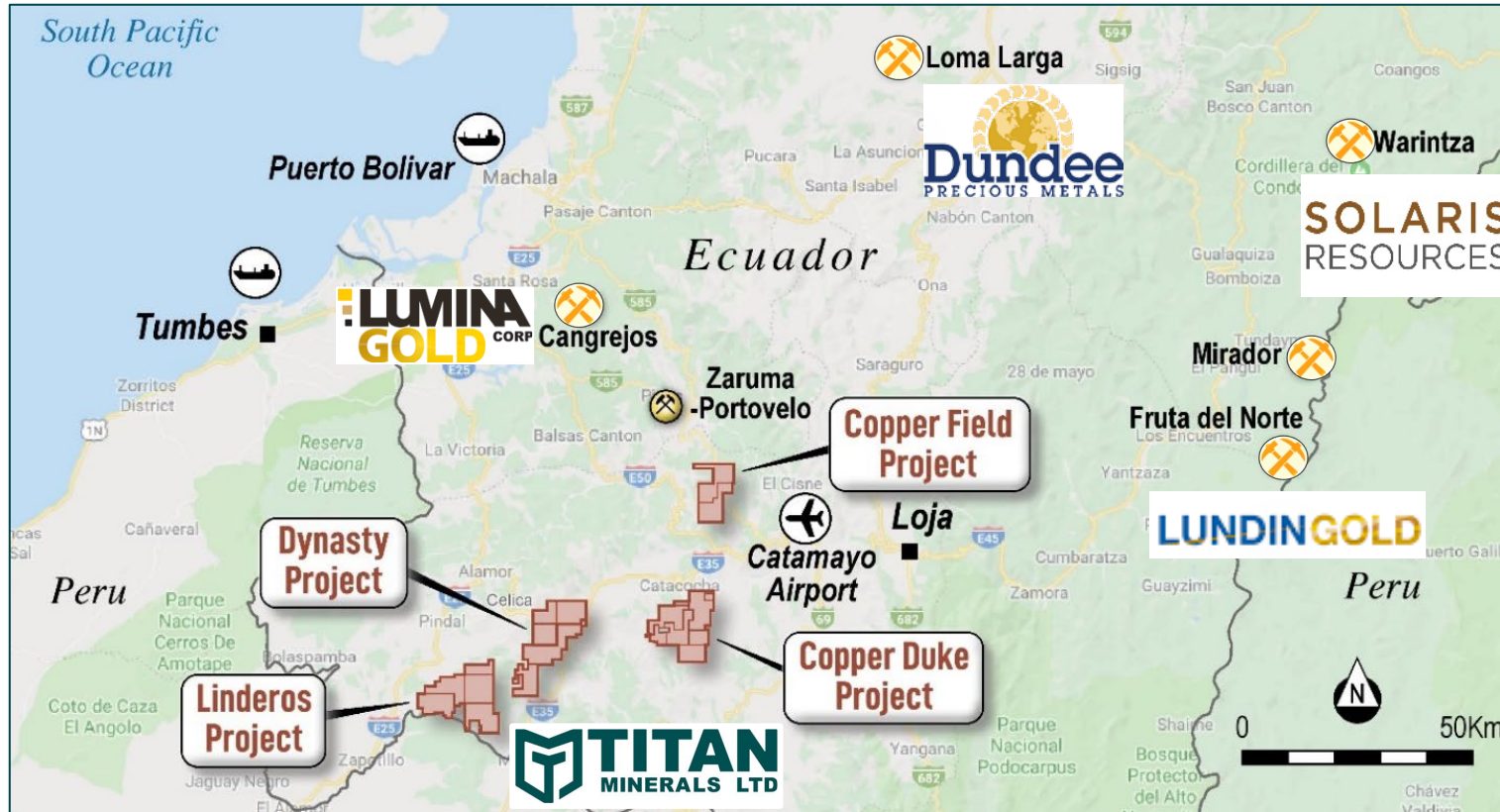
1. Fraser Institute Annual Survey of Mining Companies 2022



Substantial Investment into Exploration and Mining in Ecuador



Majors are moving in



Investment in Ecuador over recent years

- Majors are investing in new jurisdictions to meet supply of metals required to shift to low-carbon economy



The Projects

Favourable structural and metallogenic corridor, host to porphyry copper and epithermal gold deposits in southern Ecuador

Dynasty Gold Project (100%, 139km²)

- ❑ Substantial Mineral Resource of **3.12Moz gold and 22Moz silver**
- ❑ Large epithermal gold district, significant opportunity to grow resources

Linderos Project (100%, 143km²)

- ❑ Porphyry copper and epithermal gold-silver systems confirmed by drilling, pipeline of exploration targets

Copper Duke Project (100%, 131km²)

- ❑ **Elephant Country:** evidence for epithermal gold and large-scale porphyry copper systems in geophysics, surface mapping and geochemistry

Copper Field Project (100%, 65km²)

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



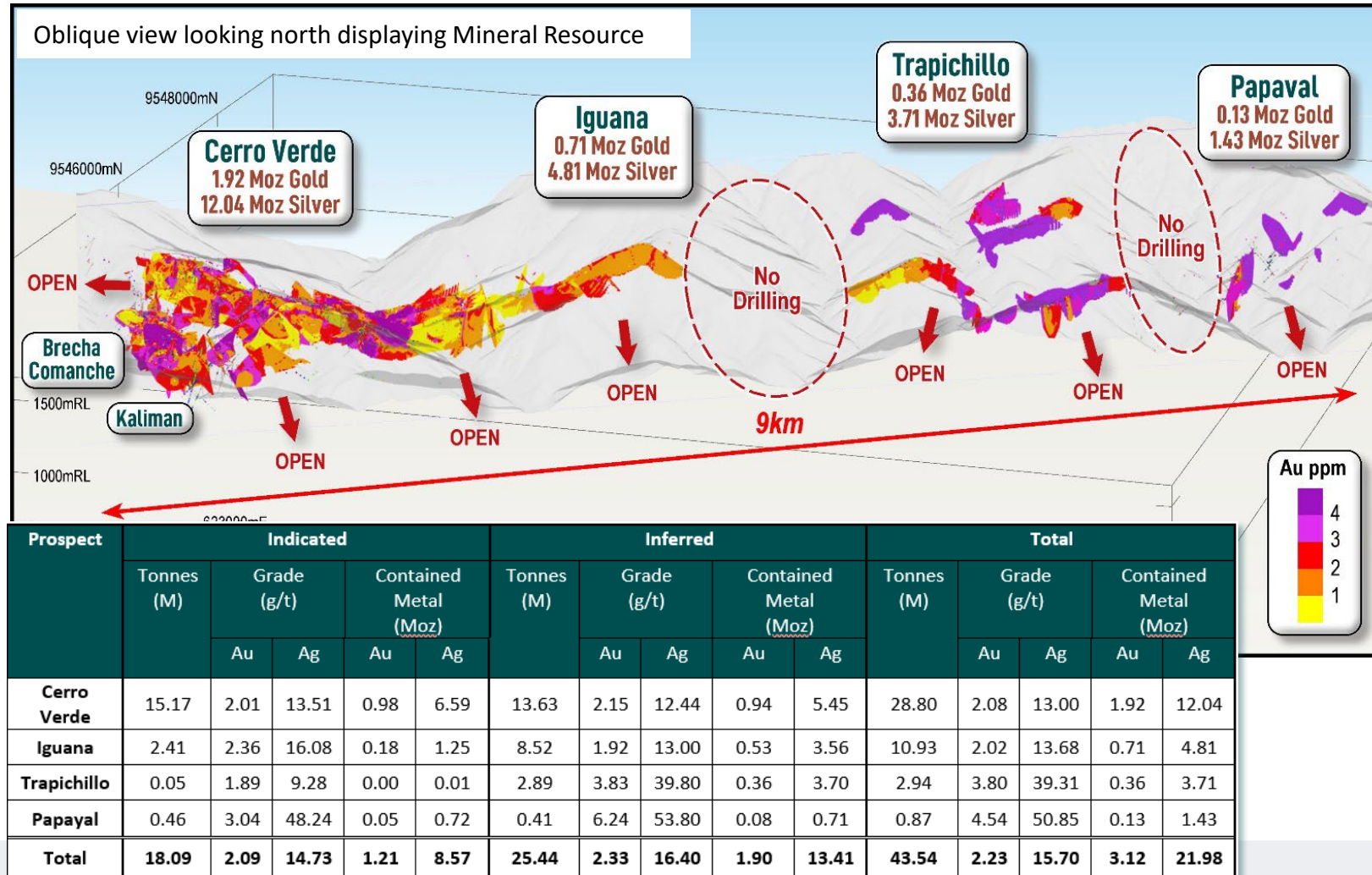
Titan geologist inspecting drill core at the Linderos Project

- ✓ **CSR initiatives at the forefront of exploration strategy**, excellent support and community engagement giving social license to operate
- ✓ Large, **systematic** geological datasets compiled

Dynasty Gold Project



Significant potential to rapidly grow resources



- Substantial **3.12 Moz gold and 22 Moz silver** Mineral Resource established
- High-grade component of **17.3Mt @ 3.77 g/t Au, 24.0g/t Ag 2.09 Moz gold and 13.33 Moz silver**
- More than half Mineral Resources (**1.67 Moz gold**) contained within 100 metres from surface
- Cerro Verde hosts majority of **Indicated resources (0.98 Moz gold)**, largely credited to additional drilling, mapping and QAQC completed by Titan
- Significant potential to **grow resources and upgrade classification**, moderate drilling and geological workstreams

Dynasty Gold Project

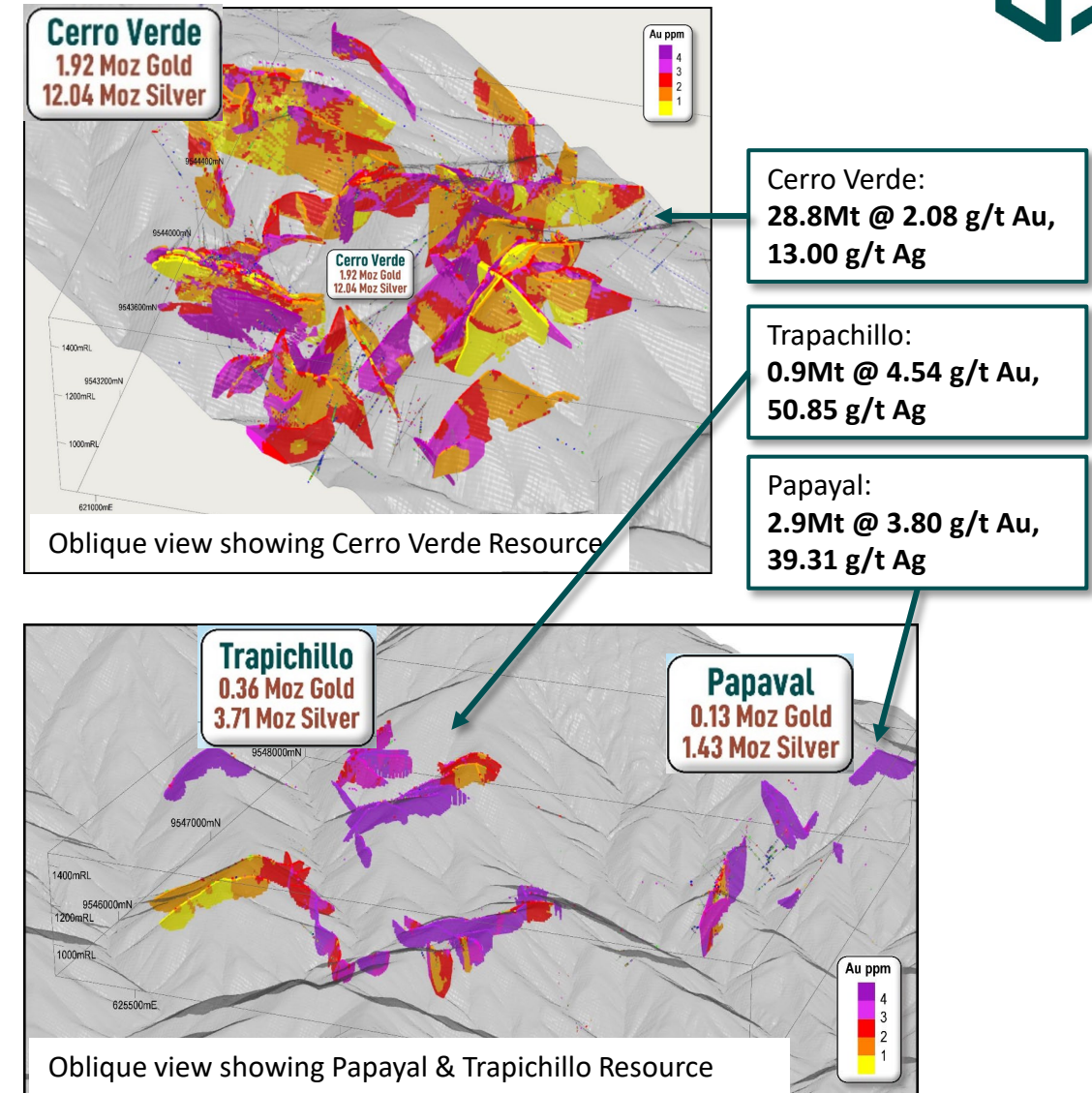


Bulk open pit mining scenario now a real option

- Cerro Verde hosts substantial ounces extending from surface, preliminary optimisation studies indicate robust economics at 0.5 g/t Au cut-off
- Substantial depth extensions to vein system confirmed to 350m in latest drilling at Cerro Verde, confirming strong mineralisation and resource growth potential across the 9 km vein corridor.
- Several areas for rapid resource growth identified, minimal drilling required to improve geological understanding in these areas, representing potential near-term resource additions

High Grade Growth Opportunities

- Papayal and Trapichillo vein systems exhibit **extremely high gold and silver grades**, albeit low tonnes, due to sparse drilling - a focus area for resource growth
- Extending mapping and surface geochemistry over these high priority areas in preparation for **drilling targeting high grade extensions** set to commence in the coming months





Dynasty Gold Project, Next Steps

Development ready gold project with resources set to rapidly grow

- **Determine ultimate size of the mineral system-** lateral and vertical extensions to be tested over gkm of strike
- **Resource growth** by adding new areas into the resource, bulk tonnes and high-grade areas
- **Drilling at Papayal and Trapichillo-** multiple veins exposed with high-grade gold, silver (and high silver:gold ratios), with textures typical of low-sulphidation epithermal gold- **analogous to Fruta del Norte**
- **Continued expansion and improvement of 3D geological and structural model** to identify new targets
- **Gradient-array IP survey** to assist in identifying new resource growth opportunities, mapping and drill targeting of sulphide-rich veins at depth and under vegetation
- **Initial feasibility studies** and baseline workstreams to assess potential development options

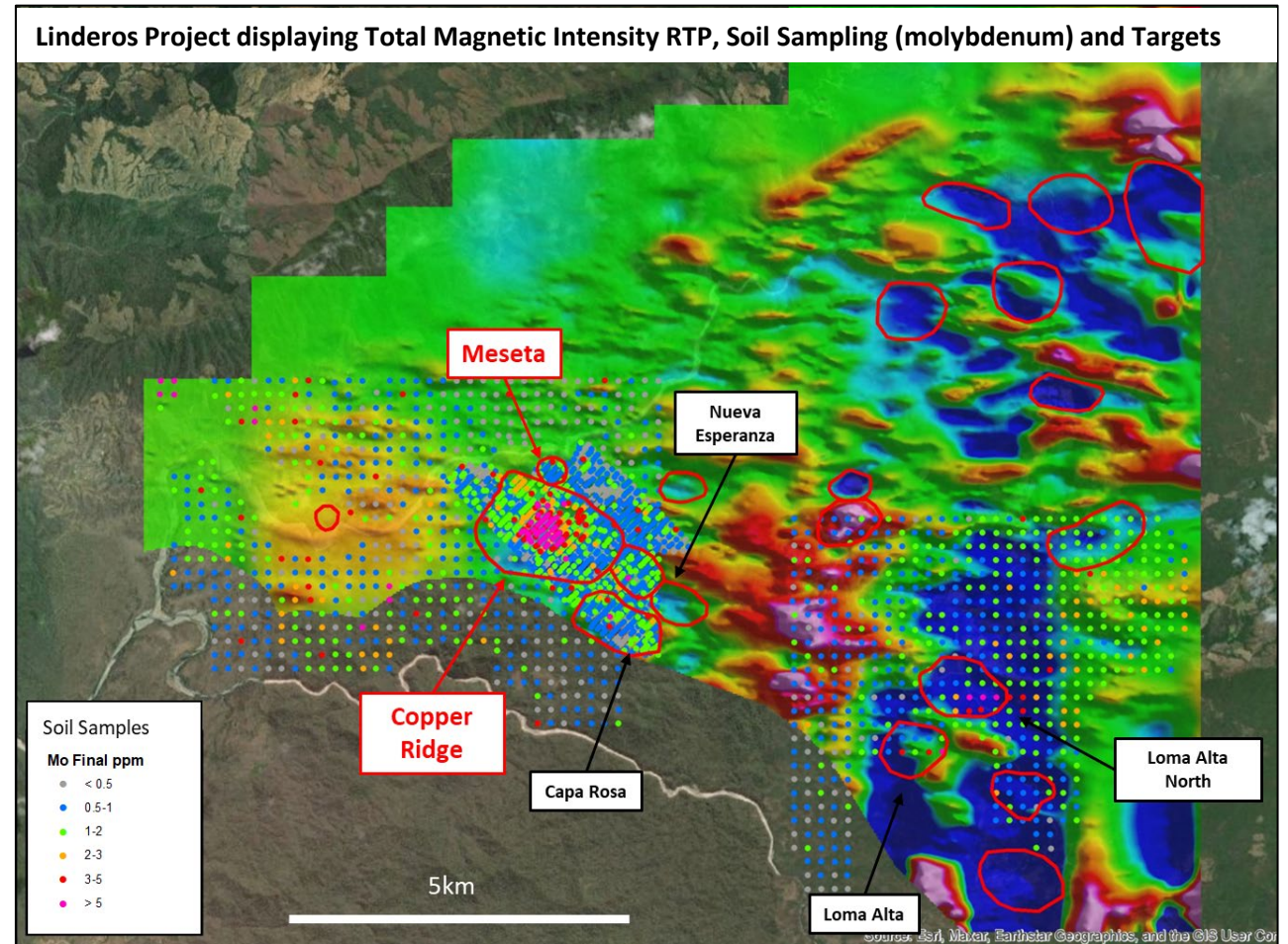


Linderos Project



Pipeline of porphyry and epithermal prospects

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



Linderos Project



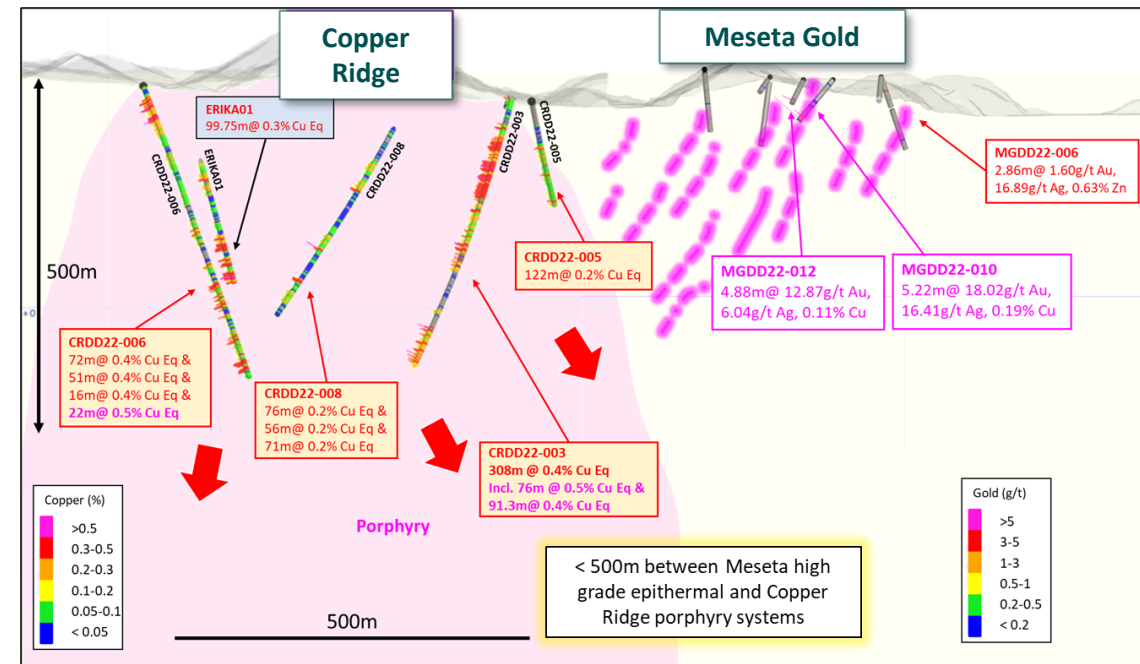
Substantial copper porphyry and epithermal gold systems confirmed by drilling

Copper Ridge Porphyry prospect

- +1km diameter **textbook porphyry signature**- central coincident Au-Cu-Mo, and distal zoned base metal anomalism
- **Wide intervals of copper-gold mineralisation from shallow depths**, most drillholes ending in mineralisation, significant potential to extend mineralisation laterally and at depth
- Better drill results include **308m @ 0.4% Cu Eq from 54m**, higher-grade intercept of **76m @ 0.5% Cu Eq** from 132m

Meseta Gold prospect

- 1-kilometre strike intermediate sulphidation epithermal gold vein- system (similar to Dynasty) **proven by drilling**
- Multiple massive sulphide veins intersected by recent drilling, with significant results including:
 - **7.22m grading 13.77g/t Au, 12.90g/t Ag** from 66m
 - **4.88m grading 12.87g/t Au, 6.04g/t Ag** from 41m



Next Steps:

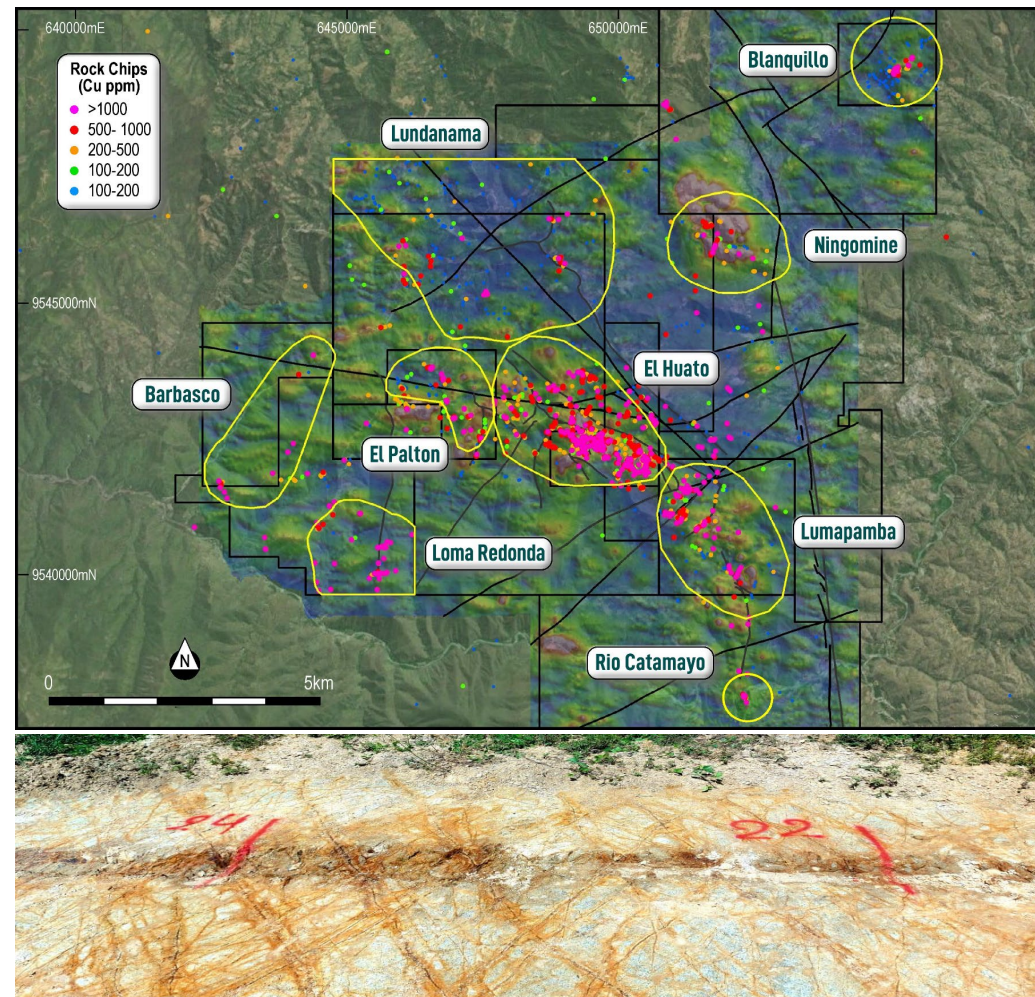
- **IP survey recently completed** with results to inform next drilling campaign at Copper Ridge and Meseta
- **Phase 2 drilling campaign planned** to test scale and tenor of mineralisation at Copper Ridge and Meseta

Copper Duke



Tier 1 porphyry potential supported by multiple datasets

- Large-scale 7km porphyry alteration footprint highlighted by magnetics, soil geochemistry (coincident gold-copper-molybdenum), trenching and surface mapping
- Multi-phase outcropping targets – porphyry, epithermal and breccia systems
- Mapping and trenching has uncovered diorite porphyry with abundant stockwork and sheeted veins, strong copper oxide and iron oxide mineralisation from surface
- Structural complexity and multiple phases of intrusion related mineralisation indicate potential for a long-lived fertile system
- Age dating confirms mineralisation as Palaeocene- the same age as giant copper-molybdenum porphyry deposits in Peru
- All necessary permits in place for drill testing
- Ongoing discussions with potential strategic partners for Copper Duke





A New Frontier in Exploration & Development

What sets Titan apart from the rest?



1

ENVIRONMENTAL RESPECT

Responsible exploration ensuring minimal disturbance to native vegetation and natural landscape

2

COMMUNITY BENEFIT

Working to benefit local communities, with skills training, economic opportunities, local partnerships and community initiatives and development programs

3

BIG IDEAS

Exploring blue-sky opportunities in fertile systems for game changing discoveries and sustainable projects

4

RESPONSIBLE STEWARDSHIP

A commitment to integrity and best practice, to safety, scientific excellence and responsible planning and management of resources

Responsible Exploration

Commitment to transparency, education, employment and inclusion



Red:5 nov 2022, 4:52:02 p. m. GMT
Local:5 nov 2022, 4:52:02 p. m. GMT
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Landowner consultation meeting



Alliances formed with local authorities



Alliances formed with local law enforcement

- Community involvement and consultation at each step, to define development projects for win-win outcomes
- Titan employs locally whenever possible, many geologists and field technicians hired from local communities
- Significant improvement in land access across all projects thanks to dedicated efforts of CSR team

Titan & The Communities



Titan strives to improve the quality of life for the communities in which it operates



Repowering of water treatment plants and maintenance of septic tanks



Donation of grains to local farmers



Medicines and vitamins supplied for children with chronic malnutrition



Materials provided for maintenance of churches, and Community Centres



Pro- mineral exploration and mining rally, local community showing support for Titan Minerals

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.



Additional Project Information

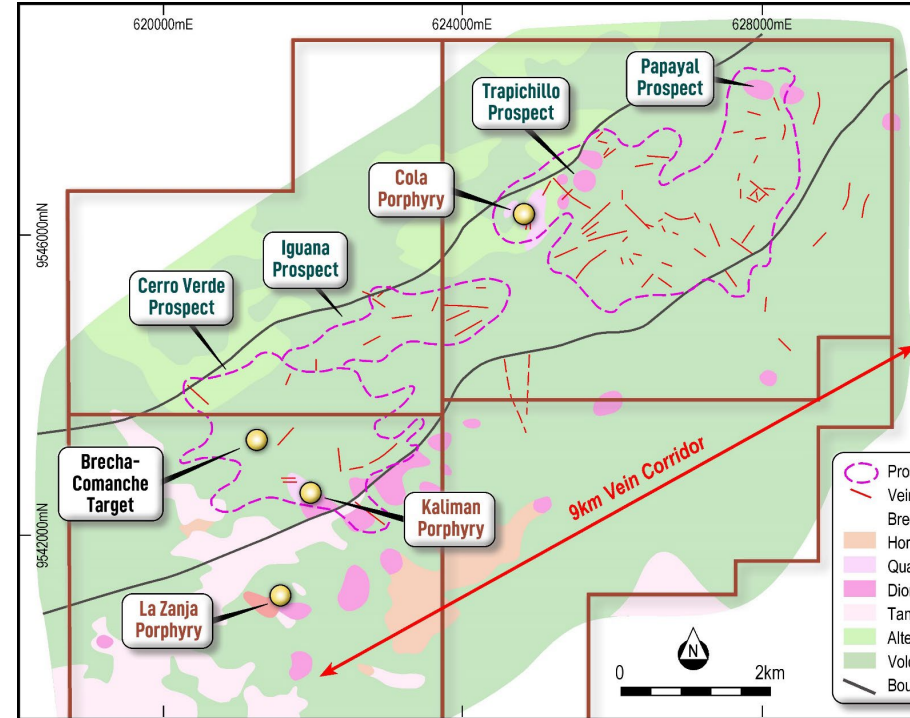
Dynasty Mineral Resource



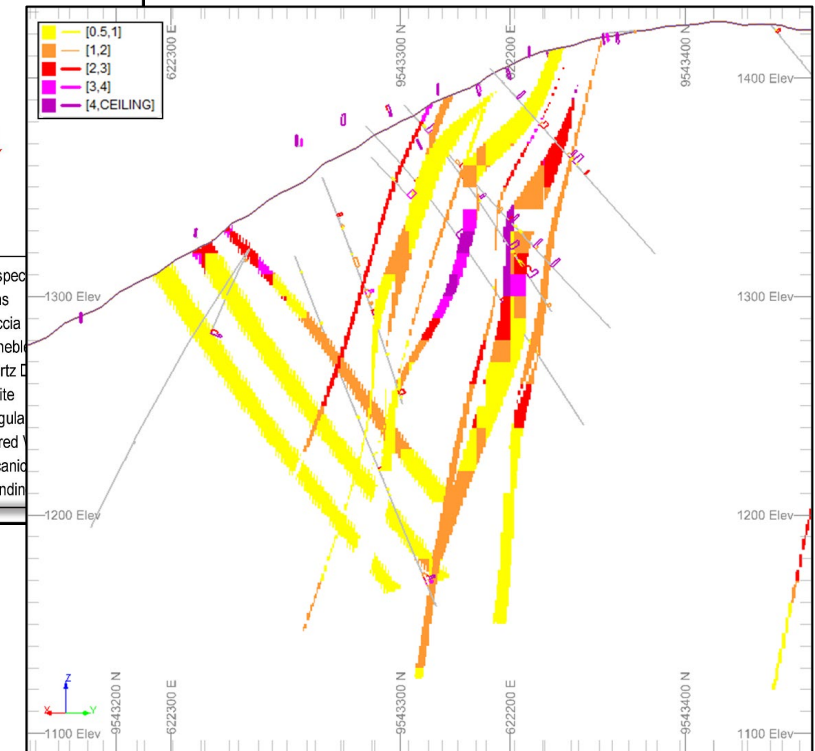
Dynasty Project Mineral Resource Estimate at various cut-off grades

Au Cut-off	Tonnes (M)	Au (g/t)	Ag (g/t)	Contained Gold (Moz)	Contained Silver (Moz)
3.0	9.76	4.80	28.6	1.51	8.98
2.9	10.23	4.72	28.3	1.55	9.31
2.8	10.74	4.63	28.1	1.60	9.70
2.7	11.33	4.53	27.7	1.65	10.08
2.6	11.97	4.43	27.2	1.71	10.47
2.5	12.65	4.33	26.6	1.76	10.82
2.4	13.39	4.23	26.2	1.82	11.26
2.3	14.21	4.12	25.7	1.88	11.76
2.2	15.16	4.00	25.2	1.95	12.28
2.1	16.37	3.86	24.6	2.03	12.96
2.0	17.27	3.77	24.0	2.09	13.33
1.9	18.40	3.66	23.7	2.16	14.01
1.8	20.03	3.51	23.0	2.26	14.78
1.7	21.40	3.40	22.3	2.34	15.38
1.6	23.10	3.27	21.8	2.43	16.19
1.5	24.90	3.14	21.1	2.52	16.91
1.4	27.07	3.01	20.3	2.62	17.65
1.3	28.80	2.91	19.6	2.69	18.19
1.2	30.52	2.82	19.2	2.76	18.87
1.1	31.96	2.74	18.7	2.82	19.25
1.0	33.56	2.66	18.3	2.87	19.74
0.9	36.36	2.53	17.3	2.95	20.19
0.8	38.36	2.44	16.7	3.01	20.61
0.7	39.89	2.38	16.4	3.05	21.07
0.6	41.85	2.30	16.1	3.09	21.72
0.5	43.54	2.23	15.7	3.12	21.98

Dynasty Project displaying epithermal vein corridor, simplified geology and prospects

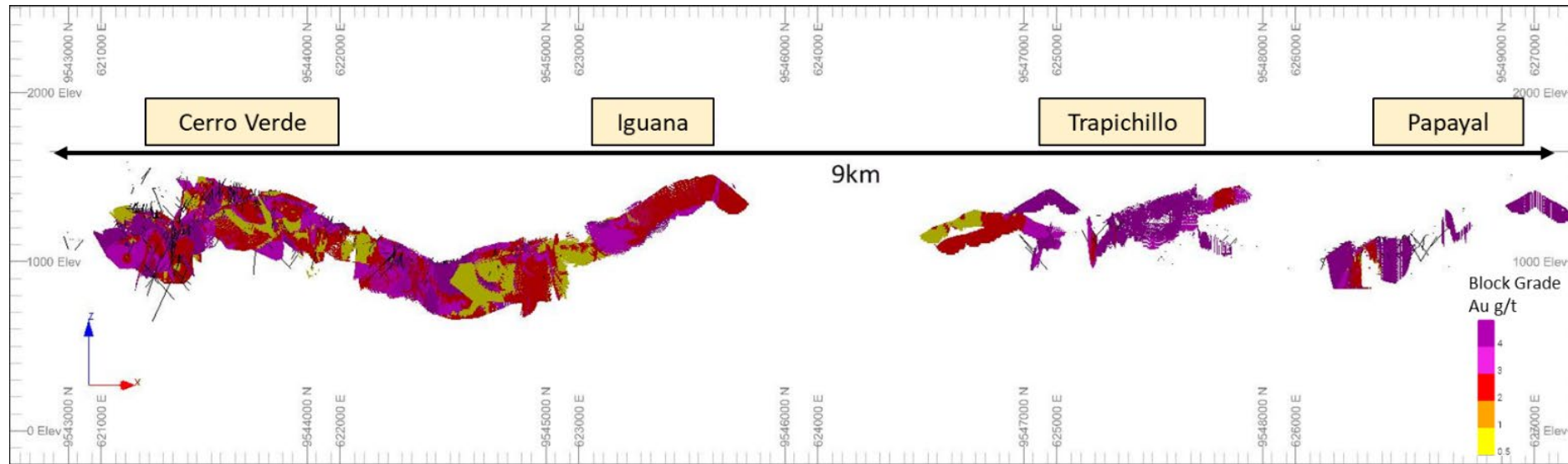


Cross Section looking northeast through Cerro Verde

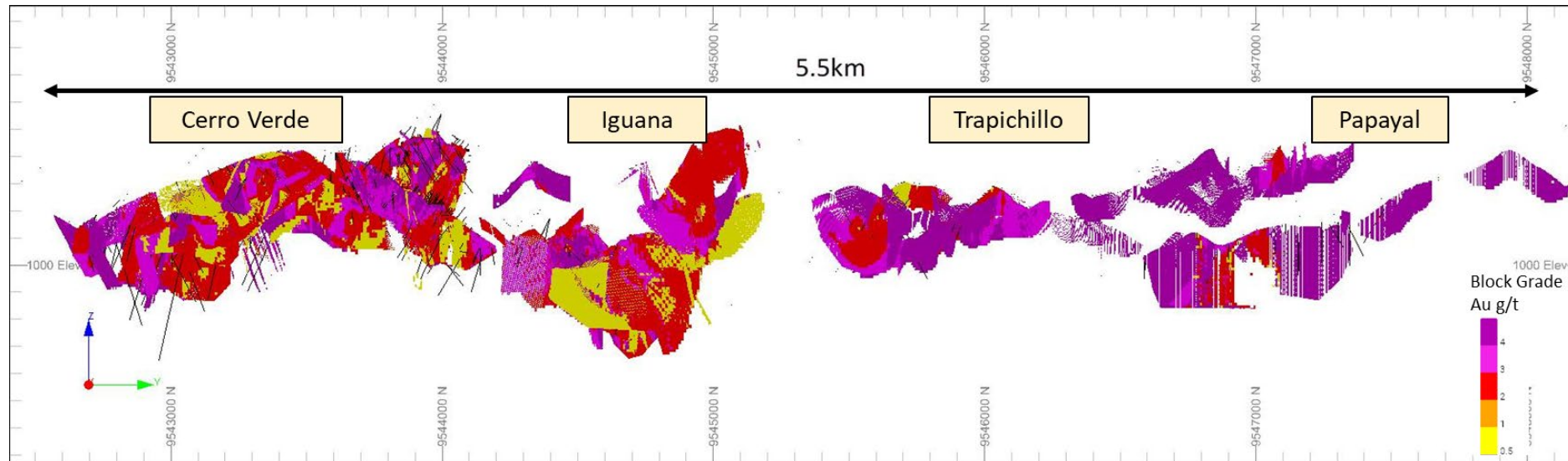




Dynasty Resource Long Sections

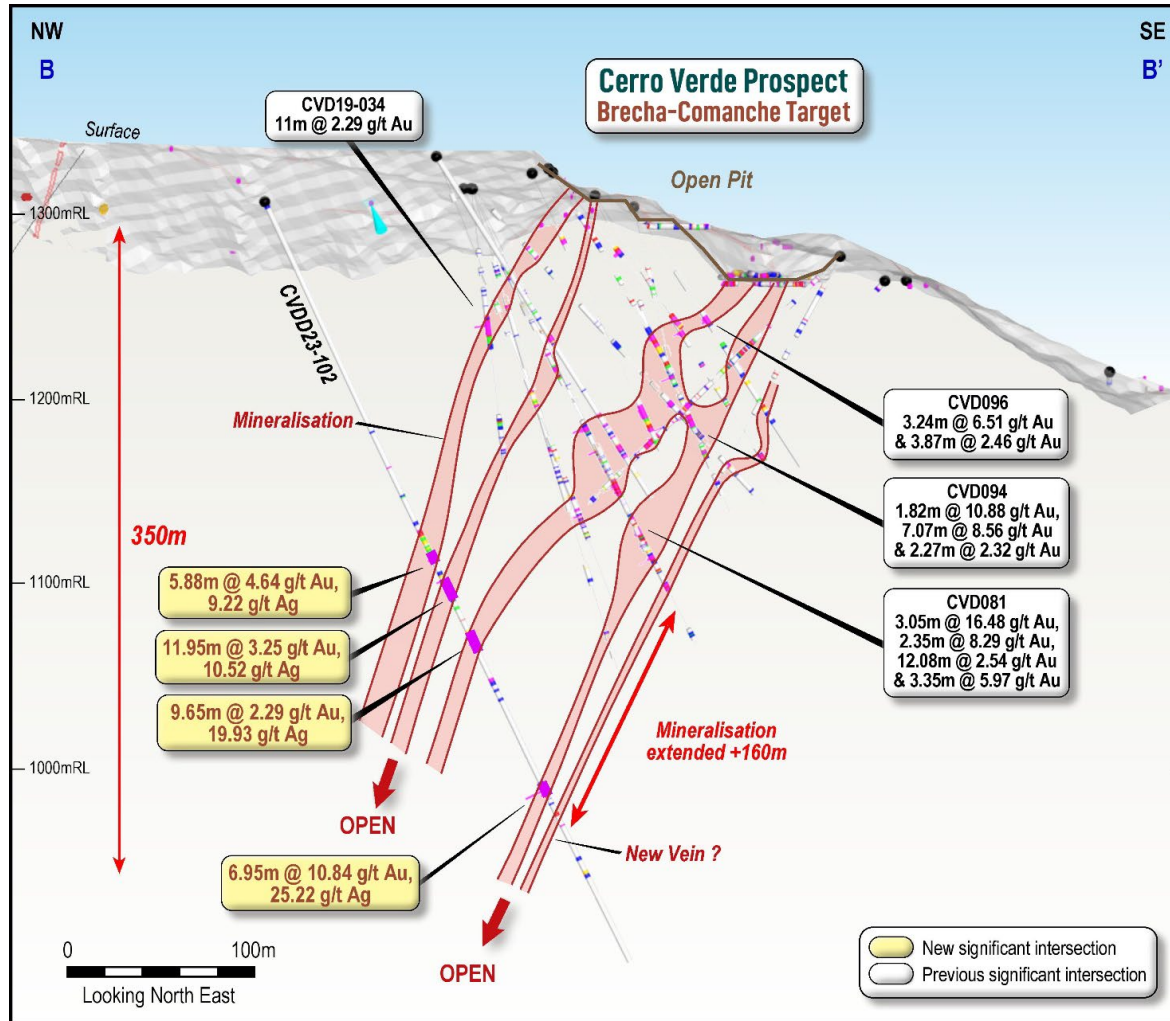


Long Section of Dynasty Mineral Resource looking towards north-west - 315°

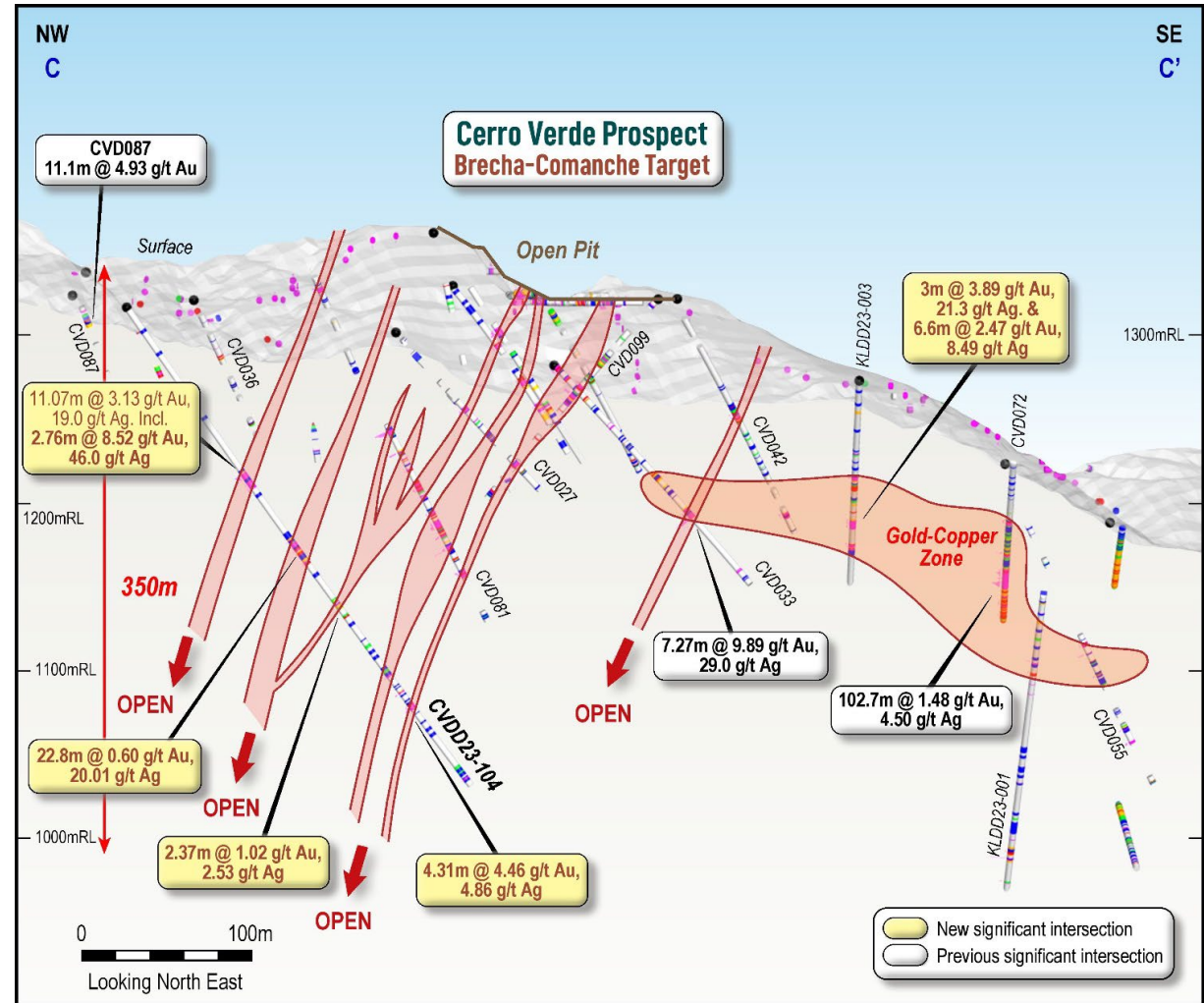


Long Section of Dynasty Mineral Resource looking west - 270°

Dynasty, Brecha Comanche Recent Drill Results



Cross section displaying drilling, interpreted mineralisation and significant intercepts

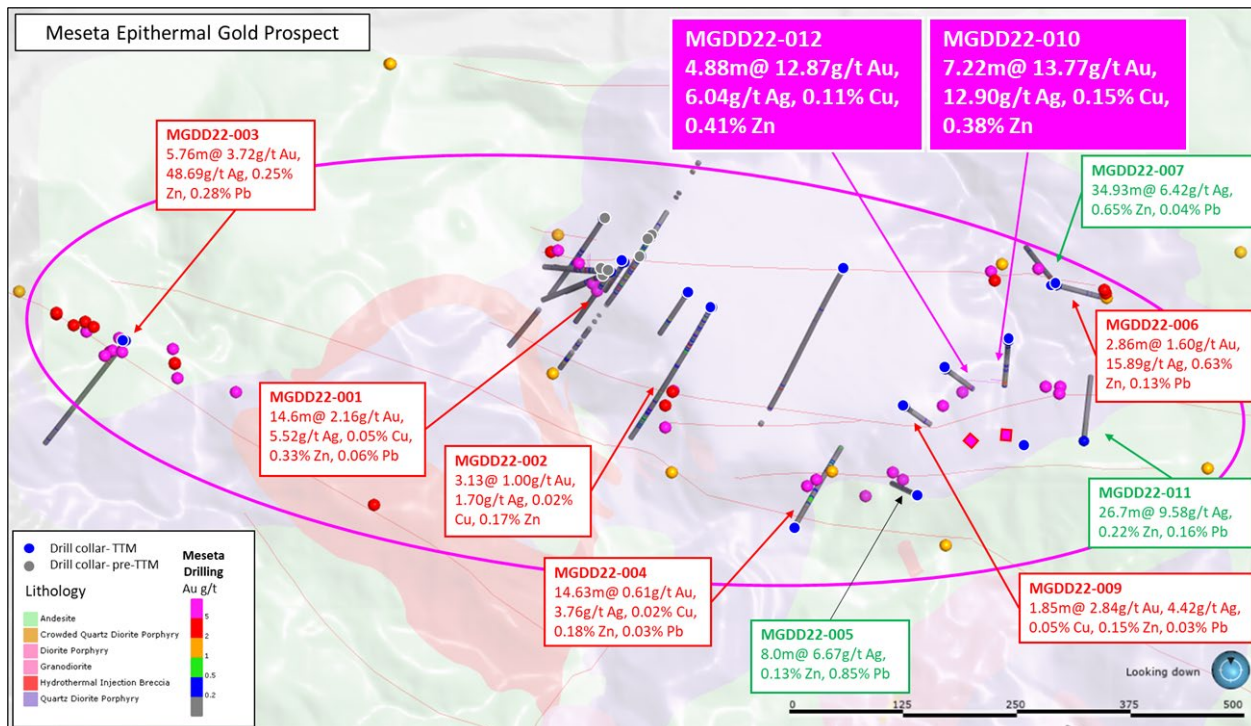


Cross section displaying drilling, interpreted mineralisation and significant intercepts

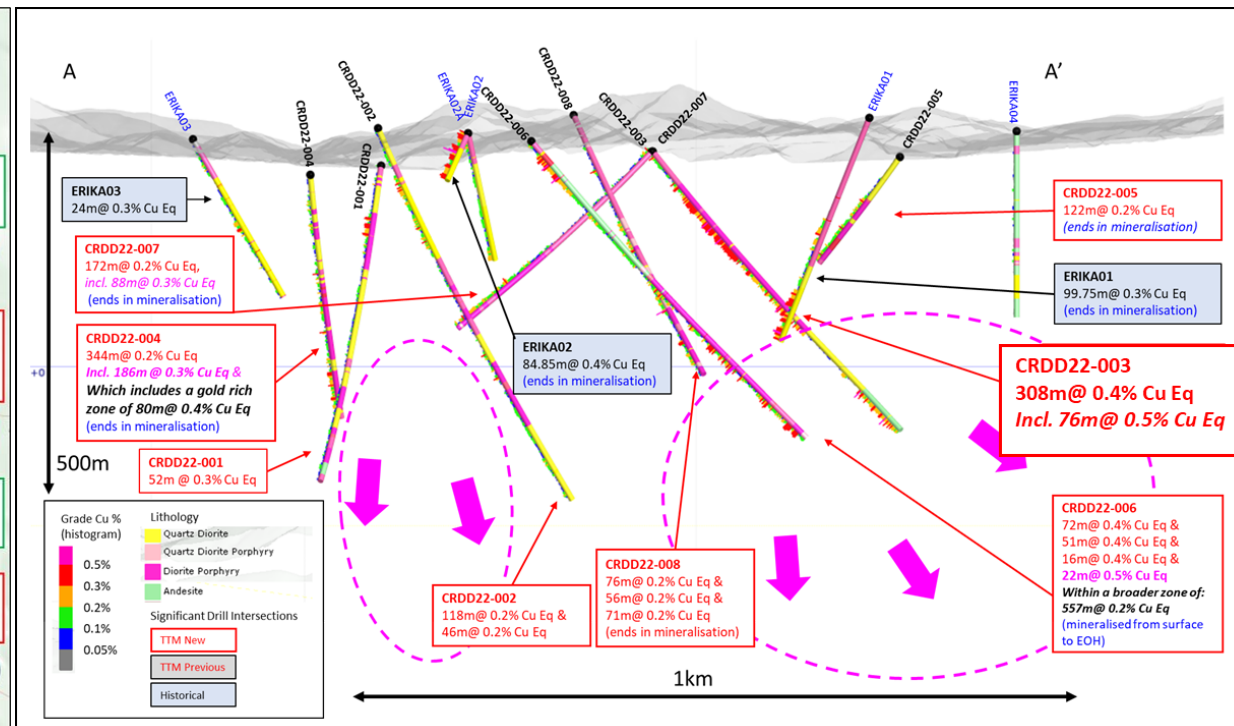
Linderos Project Significant Drilling Results



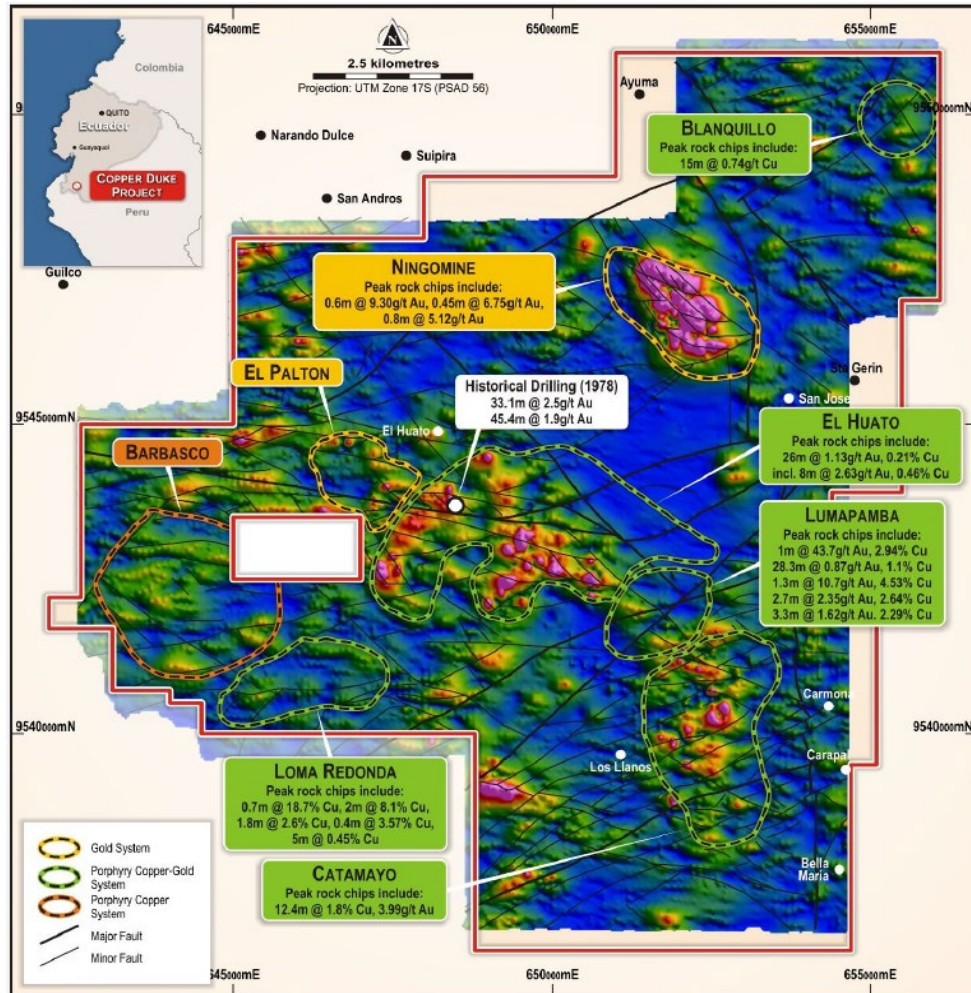
Meseta Gold prospect plan view



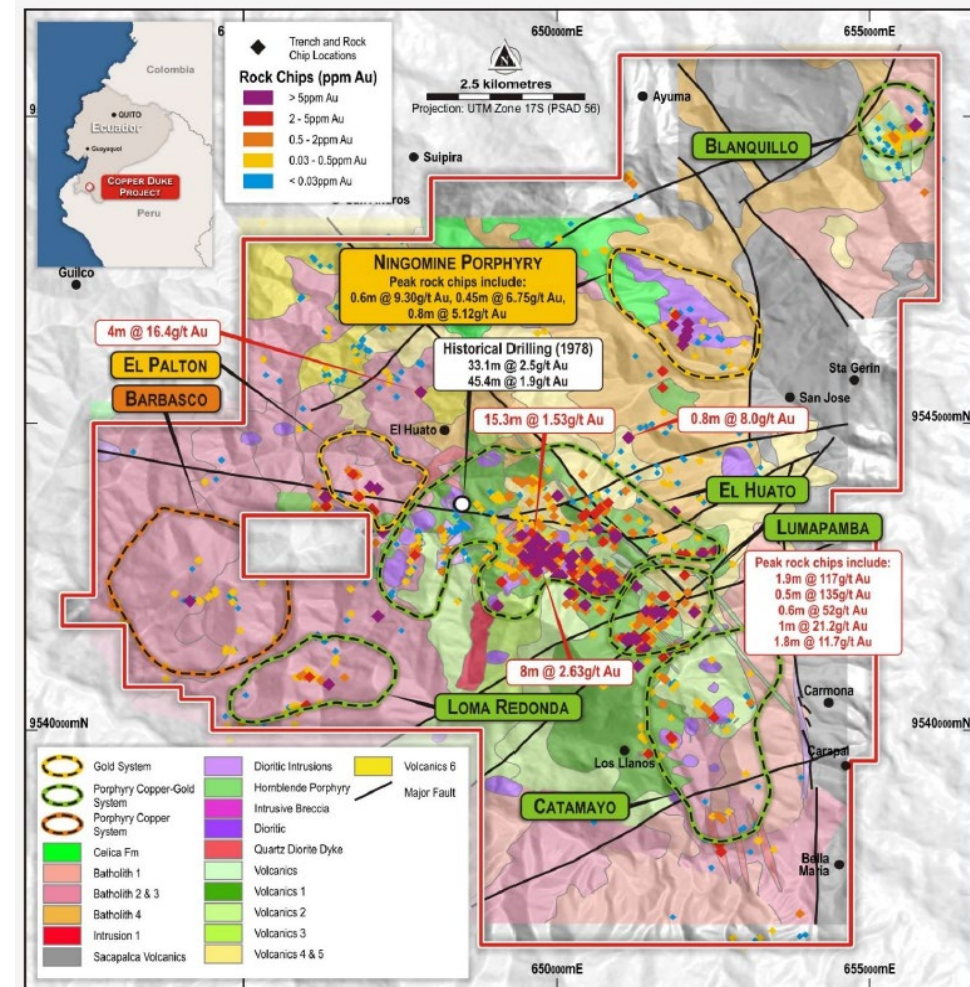
Copper Ridge Long Section displaying drilling and porphyry extensional targets



Copper Duke, Regional Magnetics and Surface Geochemistry

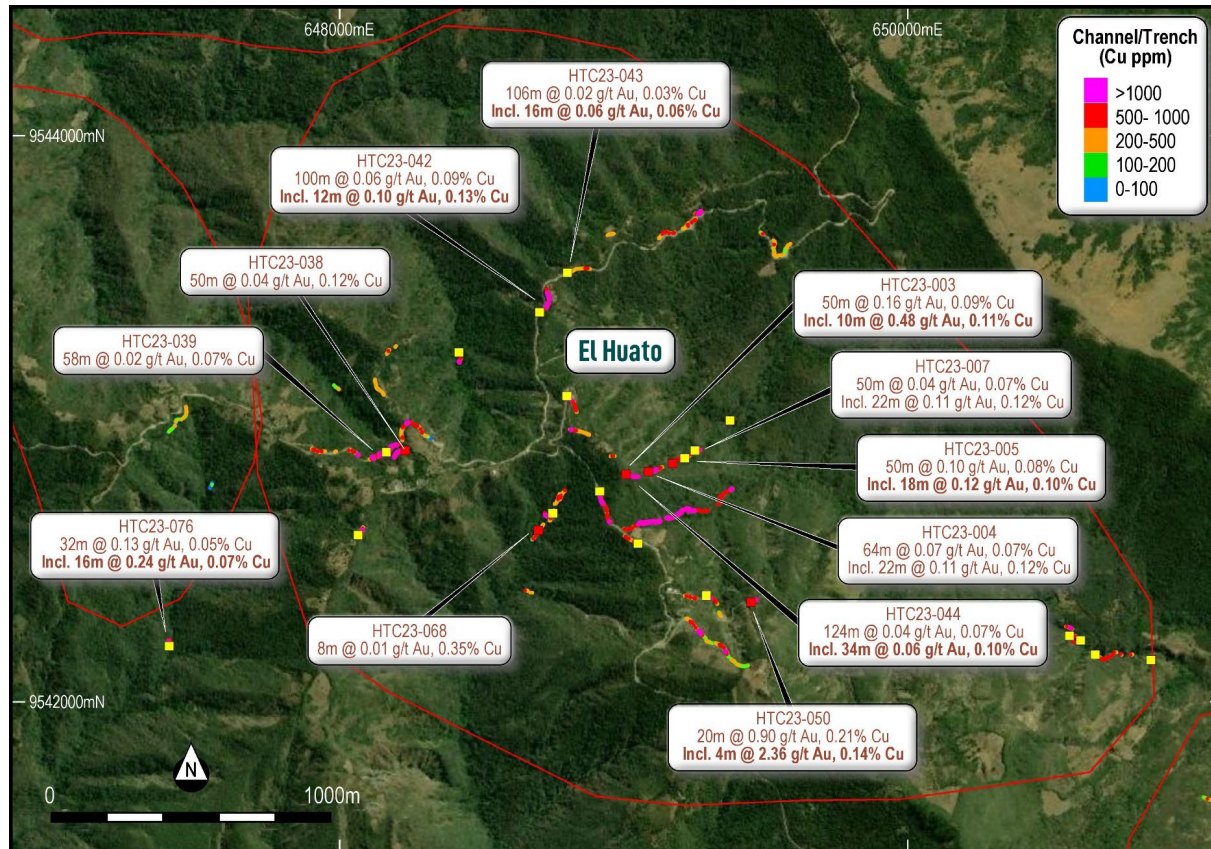


Copper Duke Total Magnetic Intensity Analytic Signal, prospects and significant results

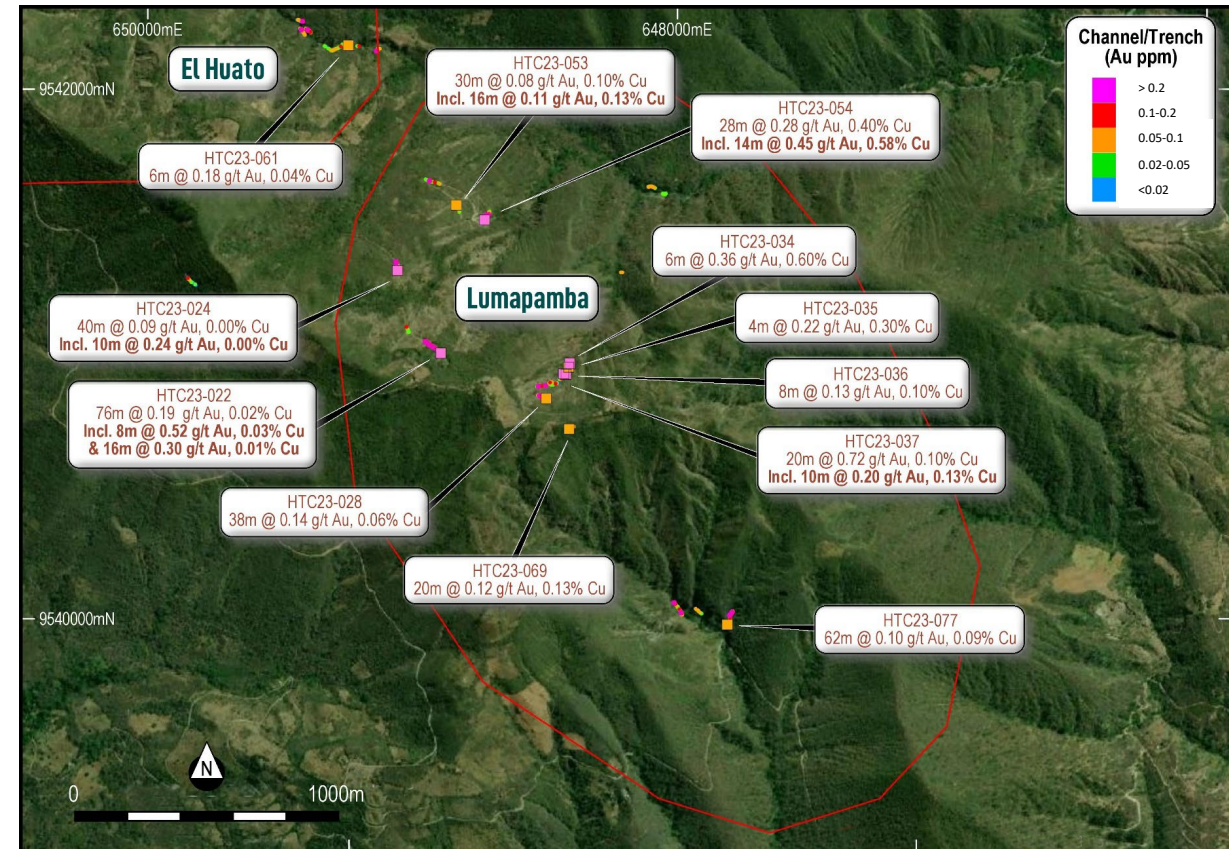


Surface sample locations with gold assays on revised geology interpretation following interpretations of high-resolution airborne geophysics dataset

Copper Duke, Trench & Channel Sample Results in Priority Areas



El Huato prospect surface trench sample results



Lumapamba prospect surface trench sample results



MEETING CLOSED

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