HANNAN METALS

Discovery of large gold and copper mineralizing systems in new frontiers

02 SEPT 2025

TSXV: HAN
OTCPINK: HANNF
FRA: C8MQ

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Qualified Person: The qualified person for Hannan’s projects, Michael Hudson, Executive Chairman & CEO for Hannan, and a Fellow of the Australasian Institute of Mining and Metallurgy, has reviewed and verified the contents of this presentation.

02 Sept 2025

Overview

A gold-copper focused exploration company attracting the support of some of the largest players in the mining space

- Focus on new frontiers – **alkaline epithermal gold discovery:**
  - 135.2m @ 1.3g/t Au and 9 g/t Ag including:
  - 69.1 m @ 2.4 g/t Au and 13 g/t Ag including:
  - 26.0 m @ 5.4 g/t Au and 27 g/t Ag
- Momentum – first drill permits
- Anticipating a pipeline of drill ready porphyry-alkaline epithermal targets over the next five years
- JOGMEC (JV – San Martin) and TECK (9.9% equity) partnerships

Valiente (Peru): multiple (up to 18) major copper-gold porphyry, skarn, epithermal systems located in a new, unexplored Miocene belt (100% owned)

San Martin (Peru): high-grade sediment hosted copper-silver analogous to the Central African copper belt (JOGMEC JV)

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Capital Structure

INSIDERS:	14%
SHARES ON ISSUE:	129.6m
FULLY DILUTED:	139.6m
SHARE PRICE:	$0.74 (SEPT 01, 2025)
MARKET CAP:	C$92m (SEPT 01, 2025)
CASH:	C$1.9m (FEB 28, 2025)
WARRANTS:	-
OPTIONS	10.0m
TMX TSX Venture Exchange	HAN
OTCPink	HANNF

	Price	No. of Securities	
Stock Options			
Expiring December 28, 2025	$0.28	3,085,000	
Expiring March 1, 2026	$0.28	150,000	
Expiring August 22, 2028	$0.25	4,263,500	
Expiring September 6, 2029	$0.60	2,033,100	**9,531,600**
Warrants			
Expiring June 27, 2026	$0.50	4,568,110	**4,568,110**

Peru: Targeting Giant Metal Districts

Big company land position

Hannan Tenure in Peru: 1,605 km²

Valiente 920 km²

Discovery of 18 unexplored Miocene-age porphyry copper-gold belt capable of hosting multiple mineralizing systems

San Martin 685 km²

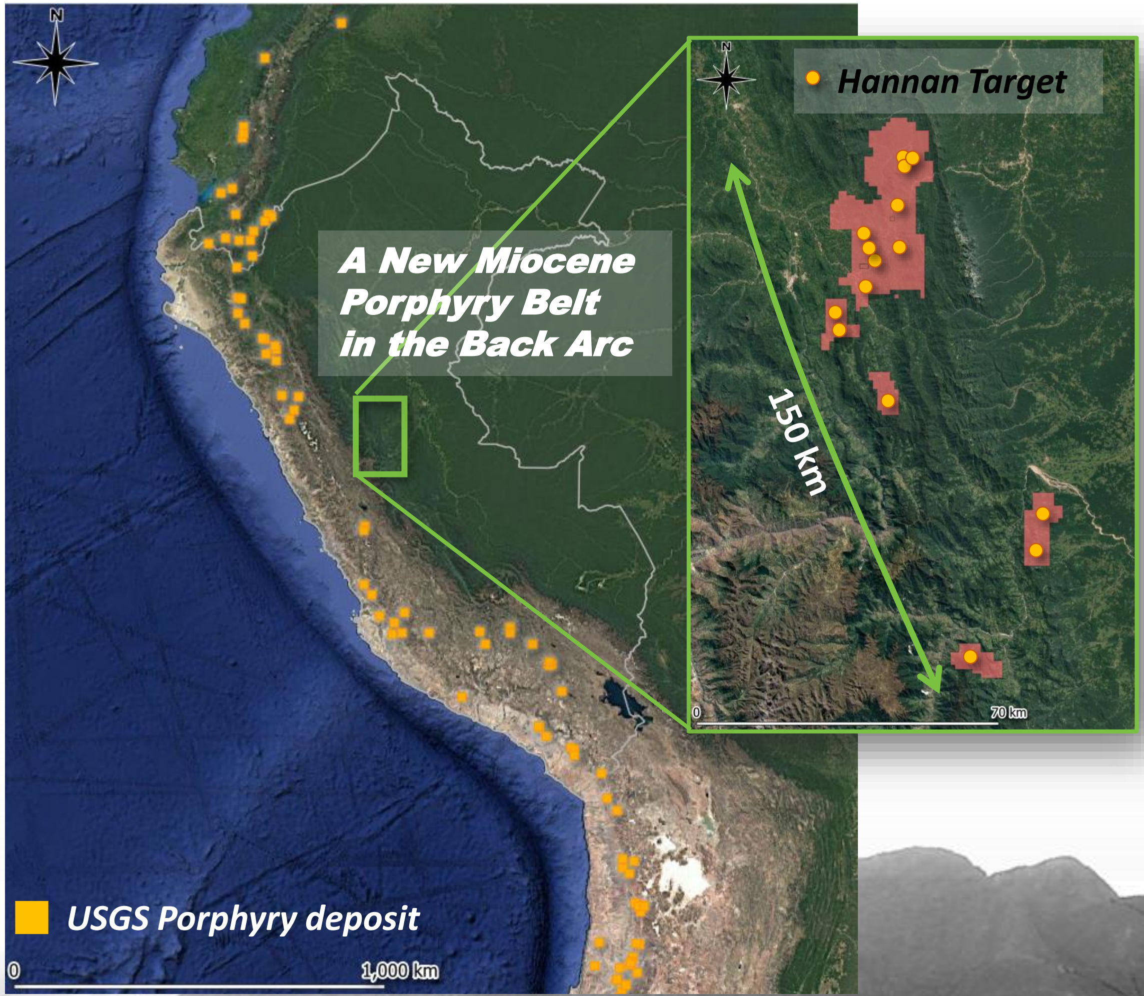
High-grade unexplored copper basin with key features analogue to the Central African Copper Belt

WHY THE BACK ARC?

1. **Untapped Discovery Potential**: Back-arc basins remain significantly under-explored, unlike mature districts where most near-surface deposits have been identified.

2. **Favorable Metallogenic Setting**: The unique geodynamic environment of back-arc regions creates ideal conditions for developing large, high-grade

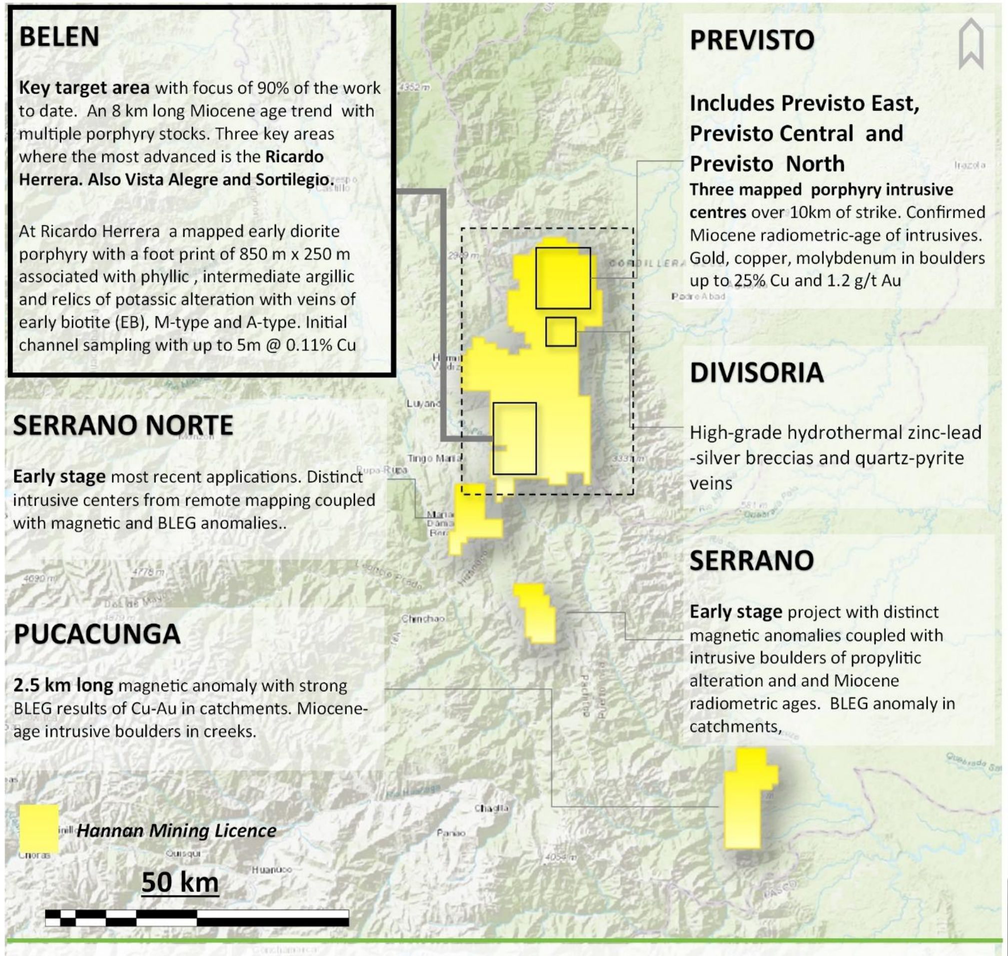
3. **Reduced Competition and Lower Entry Costs:** lower acquisition costs, less competition and a more favorable risk-reward profile than mature, fragmented districts.



Peru – Valiente Porphyry Cluster

A giant metal district in pre-discovery stage

- Footprint comparable to giant porphyry districts in the Andes
- Multiple intrusive events peaking at 21Ma, 15Ma and 11Ma (Miocene-age – key timing in Andes)
- Mineralized porphyry/skarn/epithermal targets identified in at least 18 areas across the whole belt.
- Pipeline of exploration targets that will deliver sequential drill results over multiple targets over the next 2-5 years.



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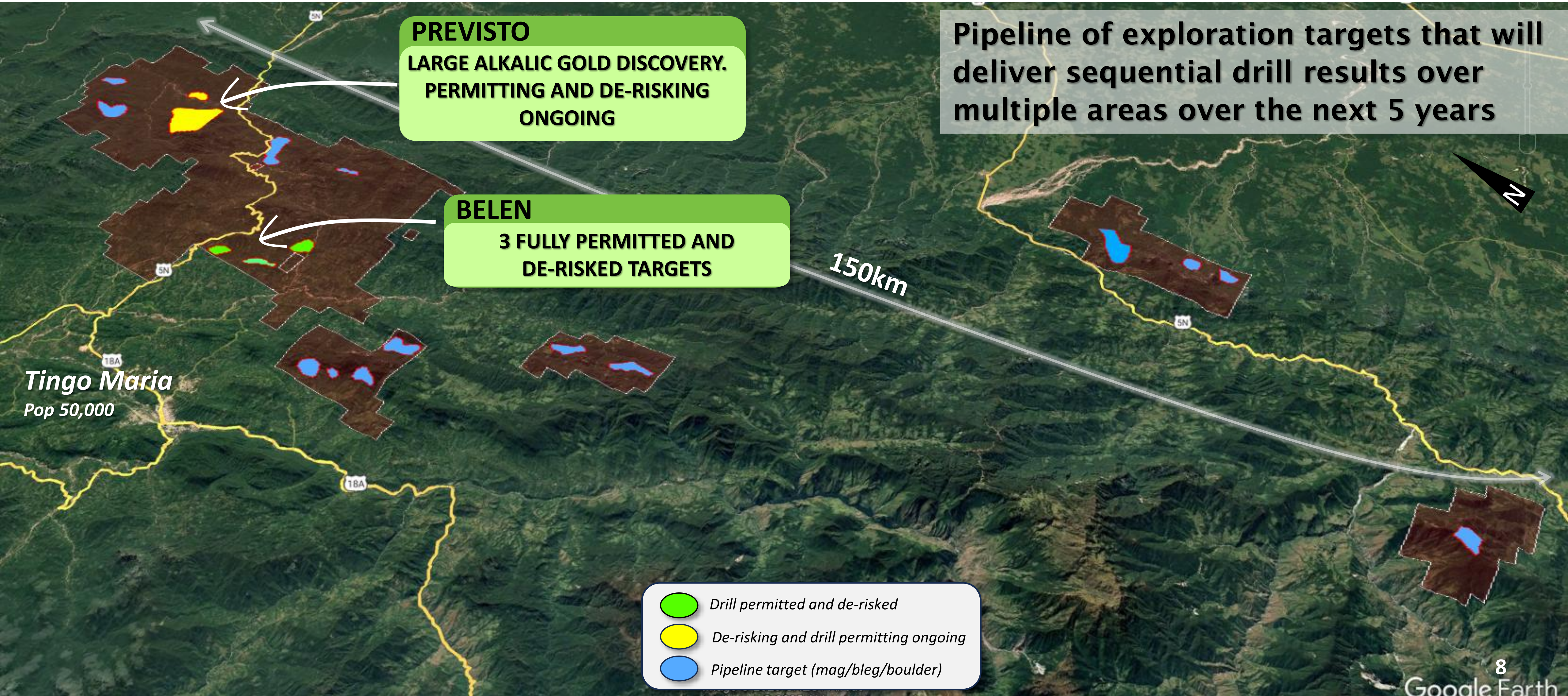
Peru – Valiente Porphyry Cluster

A giant metal district in early discovery stage



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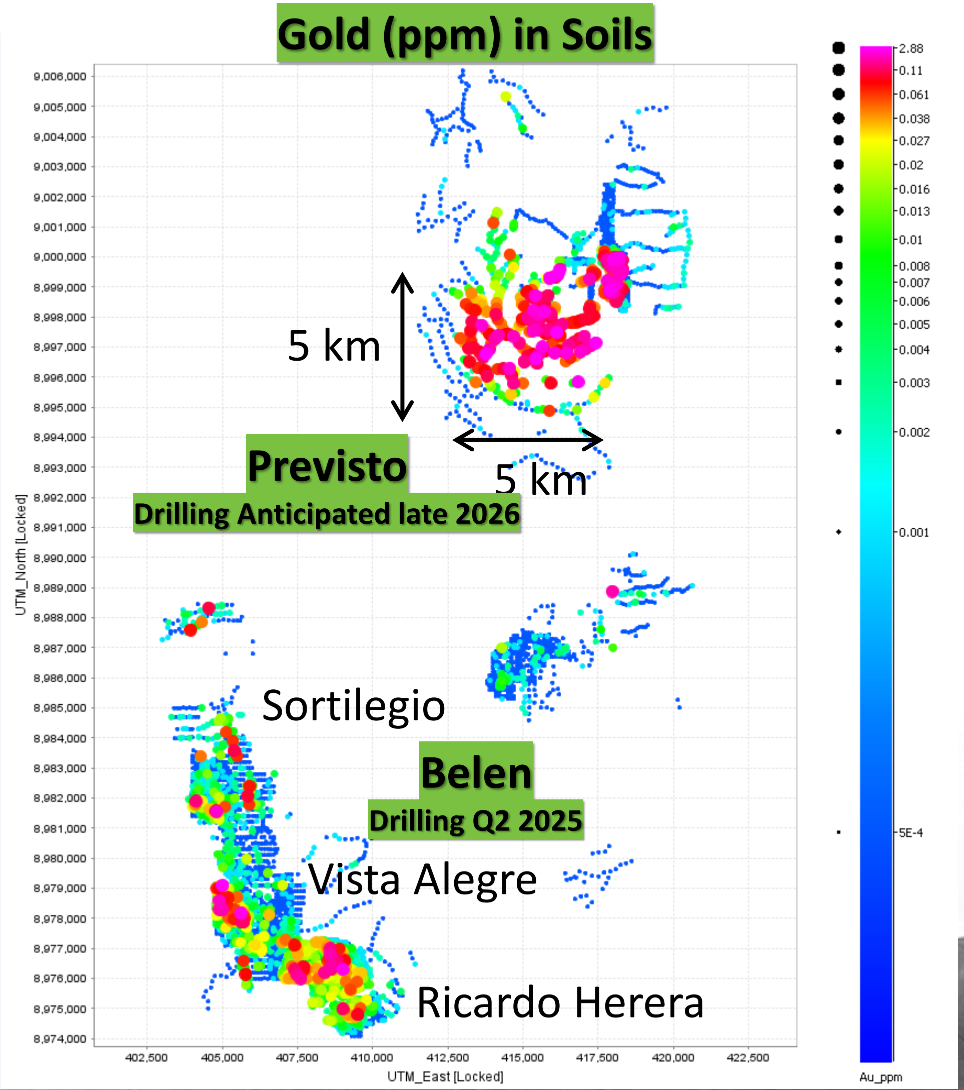
Previsto a Giant Gold Target

- An exceptionally large-scale target 5 km x 5 km
- Discovery - alkaline epithermal gold channels:
  - 69.1 m @ 2.4 g/t Au and 13 g/t Ag, including:
    - 26.0 m @ 5.4 g/t Au and 27 g/t Ag
- Outcropping copper target over 750m x 200m :
  - 126m @ 0.22 % Cu
  - 192m @ 0.11 % Cu
- In 2024 Hannan completed
  - Top ridge soil survey – infill is ongoing
  - IP orientation survey over 15-line km
  - High resolution LiDAR survey
  - Detailed mapping and channel sampling (ongoing)
  - Mapping and prospecting of creeks



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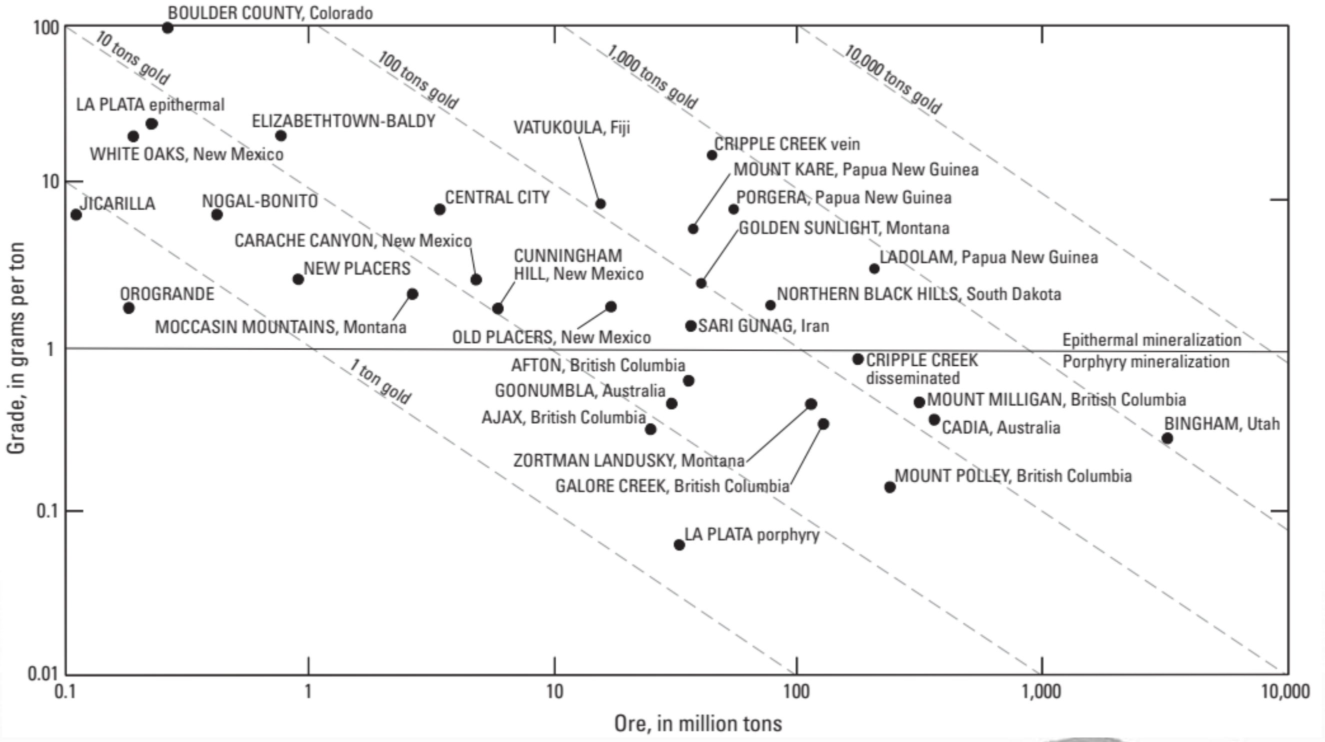
Why Target Alkaline Epithermal Gold?

Exceptional Gold Endowment

Alkaline epithermal systems host some of the world's richest gold deposits

Vertically Extensive Mineralization

Alkaline systems typically show exceptional vertical continuity of gold mineralization to depths exceeding 1,000 meters



USGS 2020, after Kelley and Ludington 2002

The Alkaline Epithermal Gold Model

Unique Tectonic Setting: specific back-arc environments with transitional tectonics and deep-seated strucutres

Specialized Magmatism: oxidized, volatile-rich alkaline magmas that are efficient sources of gold, tellurium, and vanadium

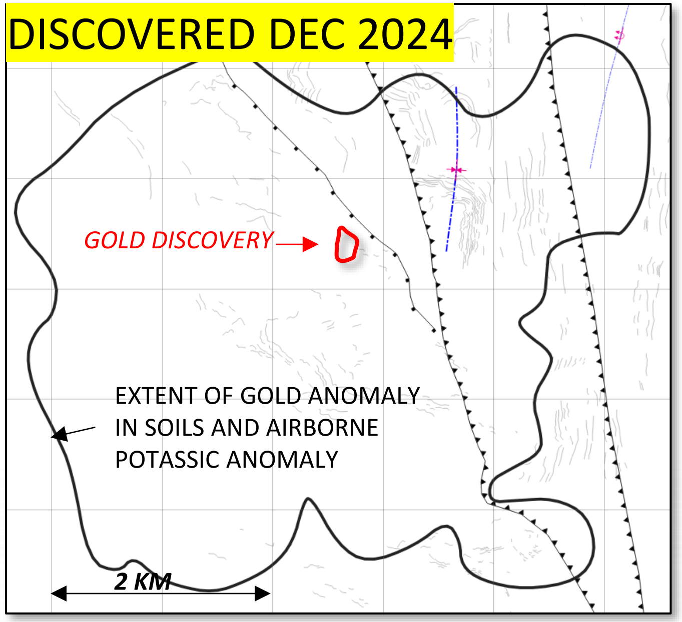
Distinctive Hydrothermal System: characteristic potassic alteration and diagnostic roscoelite-telluride-fluorite mineral assemblages

Geological Environments: within calderas or subvolcanic with shallow hypabyssal intrusions and diatremes

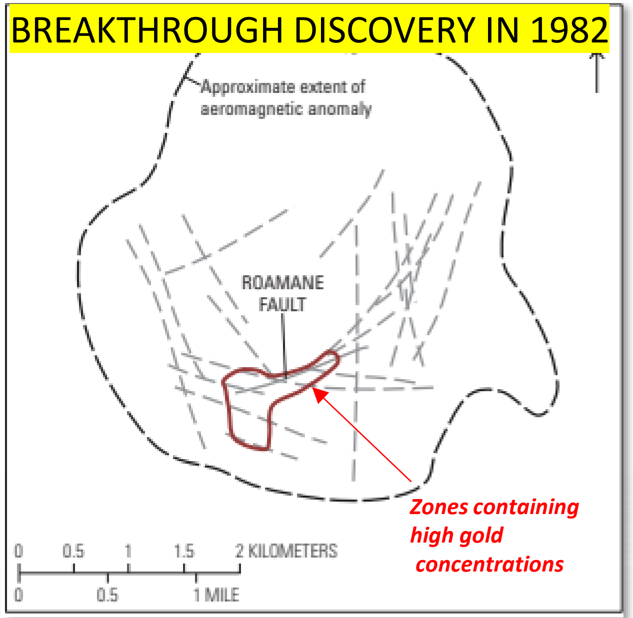
From Hay etal. 2020

Previsto Compared to Major Deposits

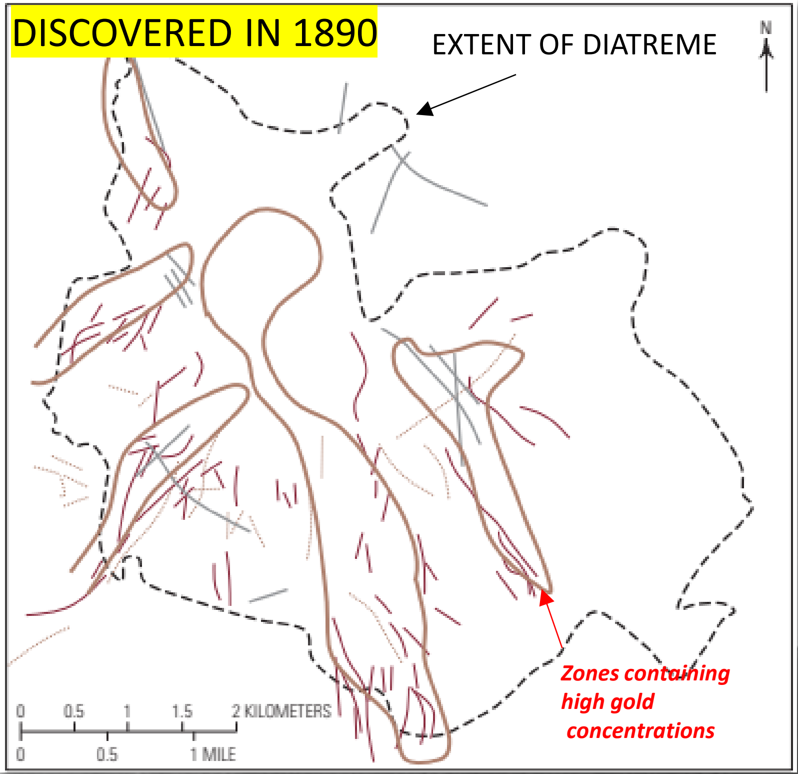
HANNAN ALKALINE EXPLORATION TARGET:
PREVISTO INTRUSIVE COMPLEX



PORGERA INTRUSIVE COMPLEX: **EST. GOLD ENDOWMENT TO DATE 33-37MOz**



CRIPPLE CREEK DISTRICT HISTORIC
EST. GOLD ENDOWMENT TO DATE 27-30MOz



Previsto: Transtensional Structure & Hydrothermal system

Structural Framework:

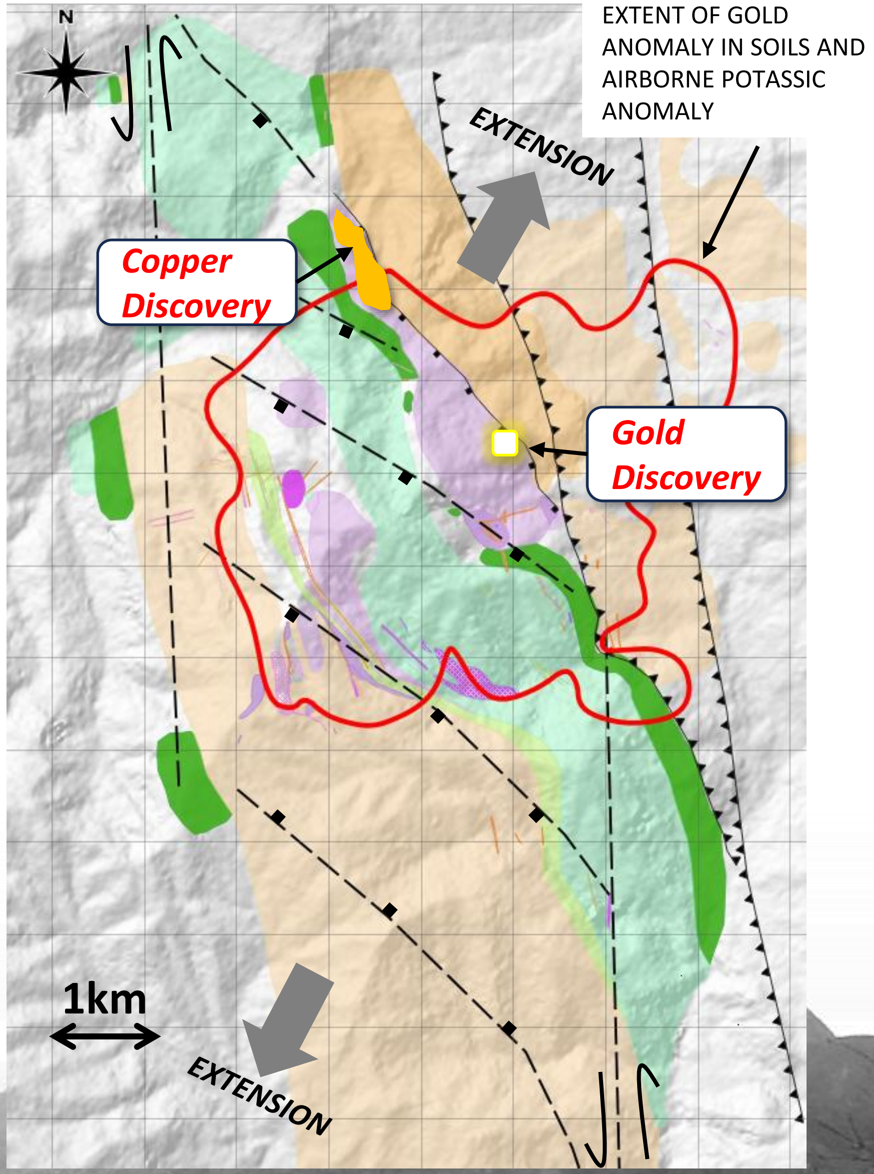
- Pull-apart basin identified through field mapping and airborne magnetic surveys.
- Intrusion of alkalic magma into extensional structures

Magmatic-Hydrothermal System:

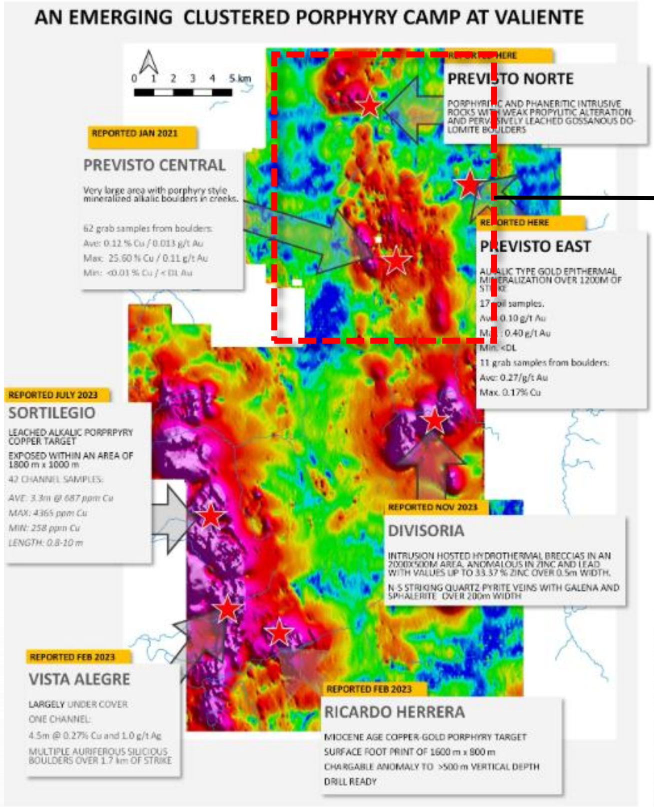
- Original syenitic protolith (?) extensively modified by K-metasomatism, now >>10% K_2O common.
- Characterized by pervasive illite alteration and K-feldspar megacrysts and adularia alteration

Host Rock Interaction:

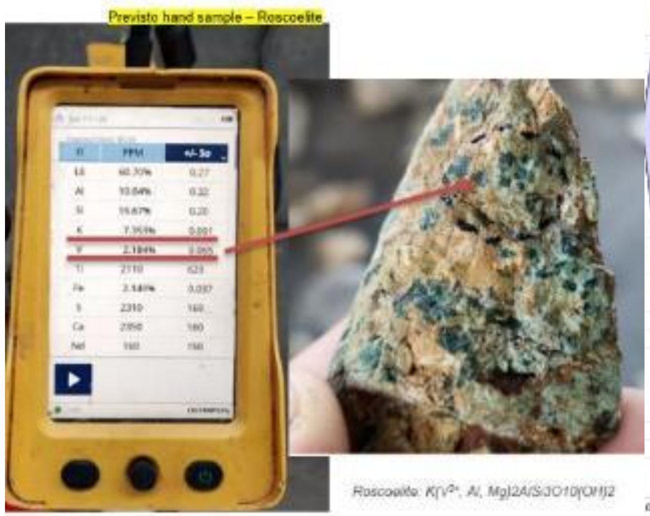
- Contact metamorphism of marine sedimentary sequence:
    - Chonta Formation (mudstone-siltstone-limestone)
    - Vivian Formation (white sandstone)

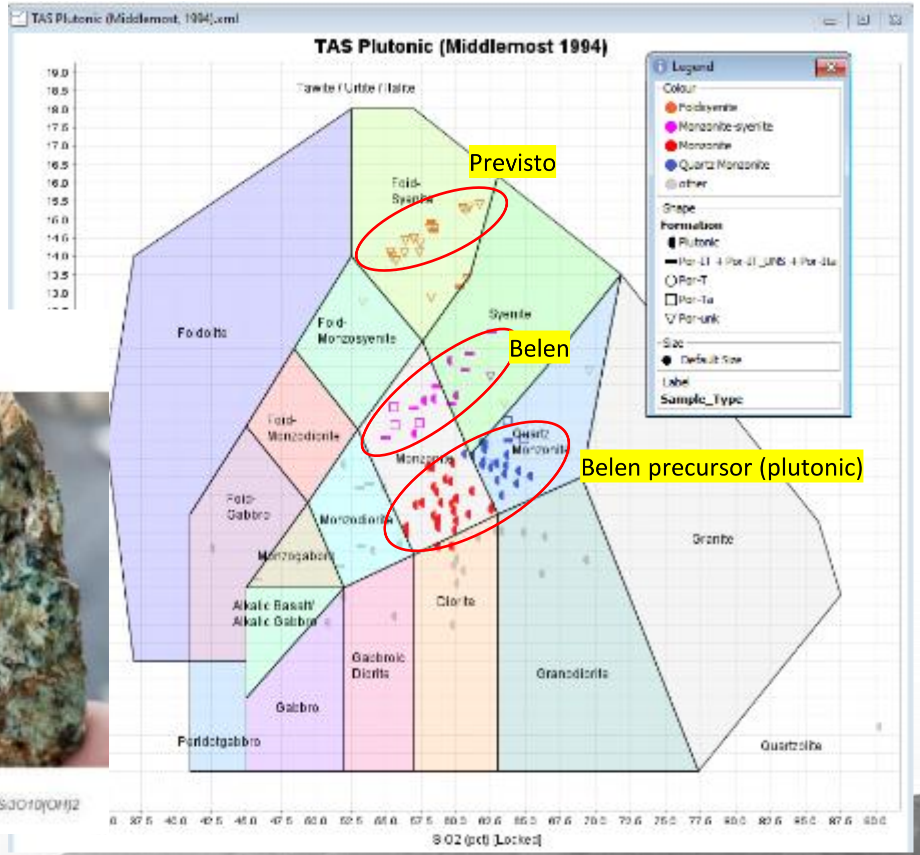


Valiente – Previsto Target



Litho-geochemistry distinguish this target from the Belen zone with an alkaline composition of the porphyry stocks.





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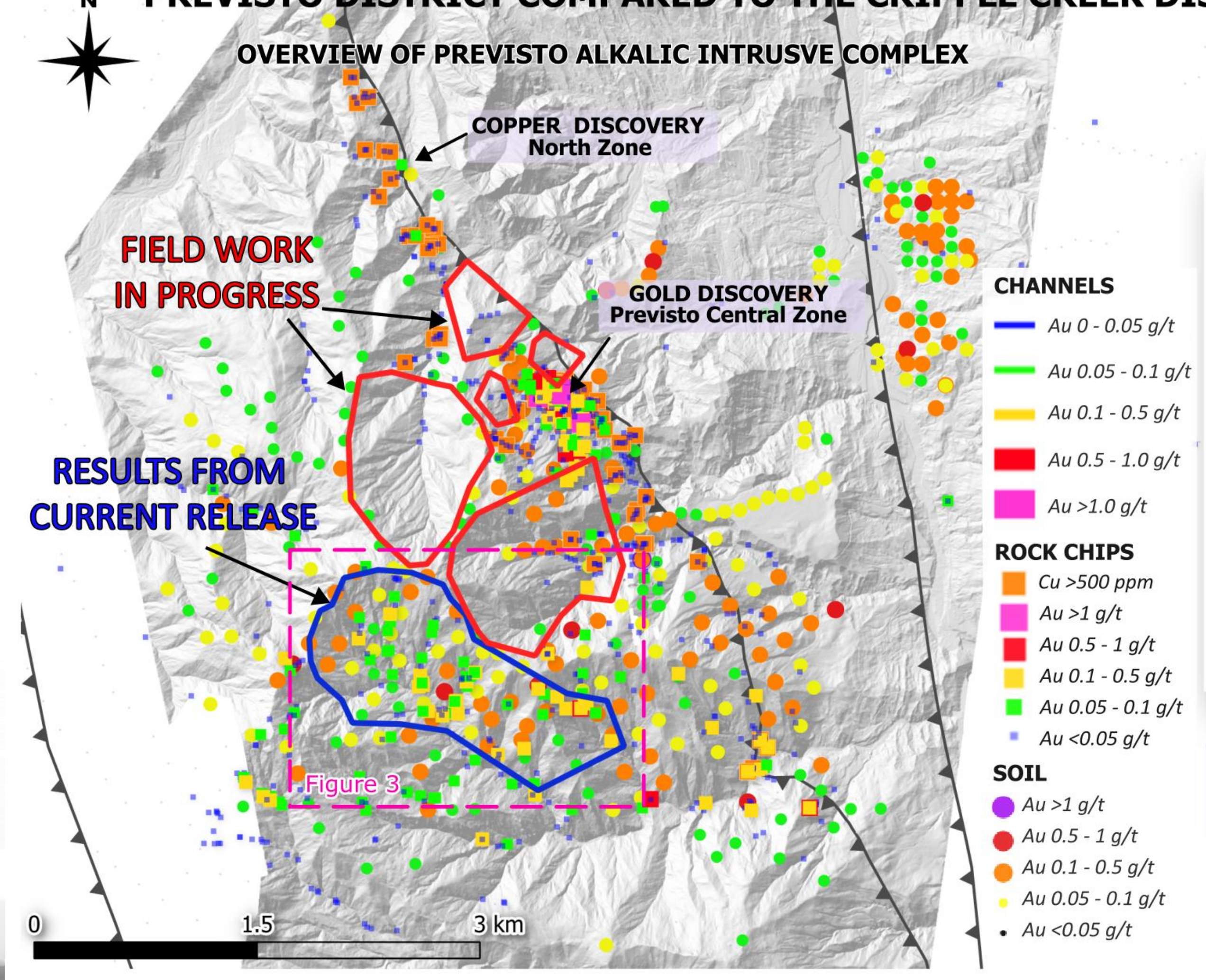
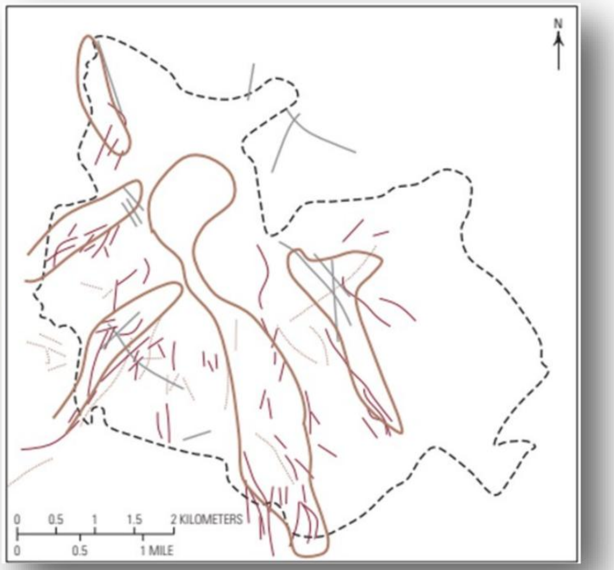
Previsto Significant Discoveries

PREVISTO DISTRICT COMPARED TO THE CRIPPLE CREEK DISTRICT COLORADO, USA



CRIPPLE CREEK DIATREAM

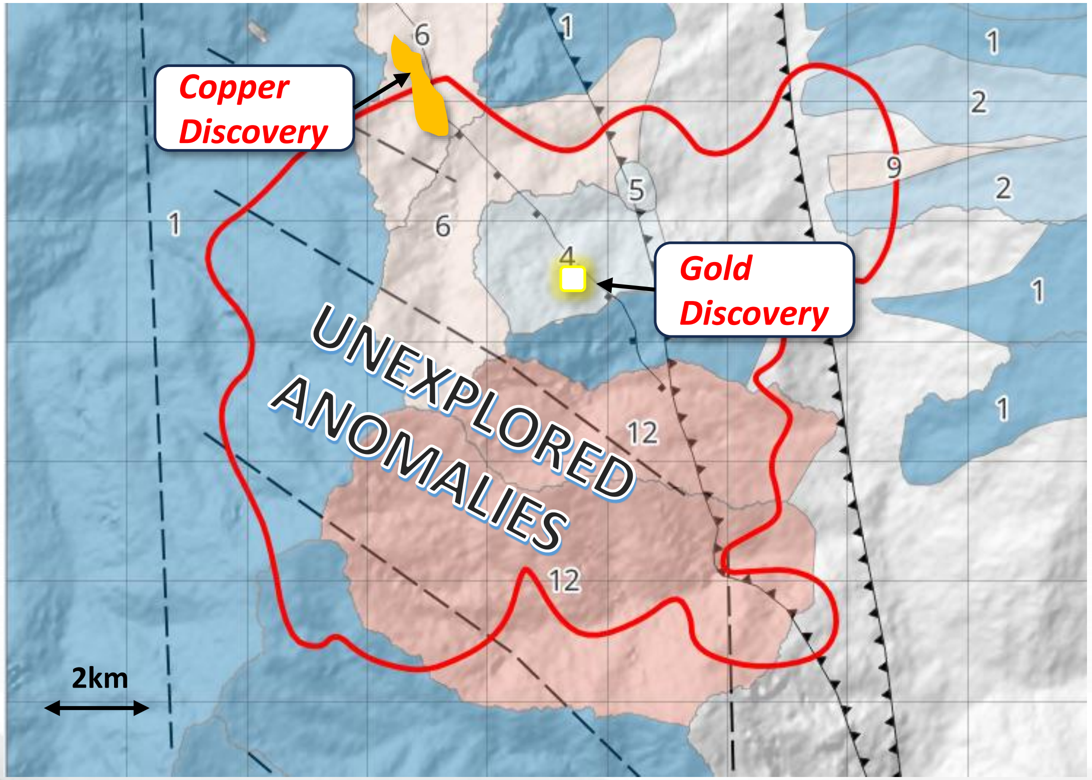


CRIPPLE CREEK DISTRICT. DISCOVERED 1890

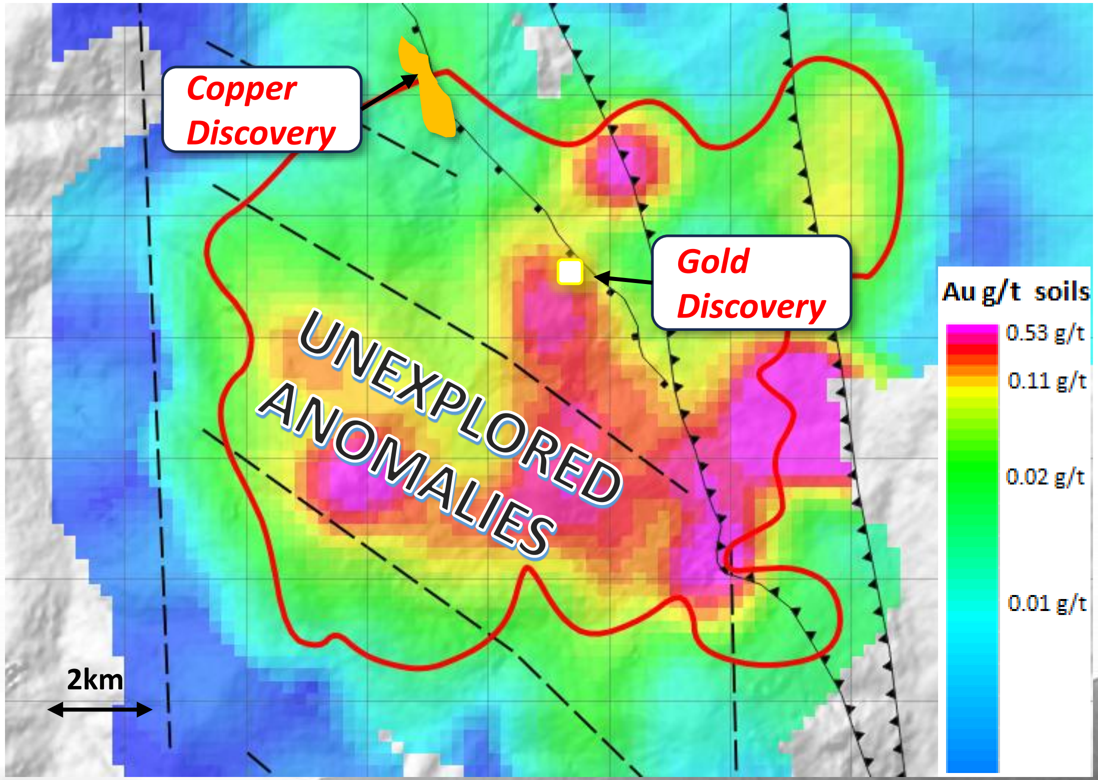
EST. GOLD ENDOWMENT TO DATE 27-30MOz

Significant Exploration Upside

BLEG GOLD RESULTS PPB (50g CN)

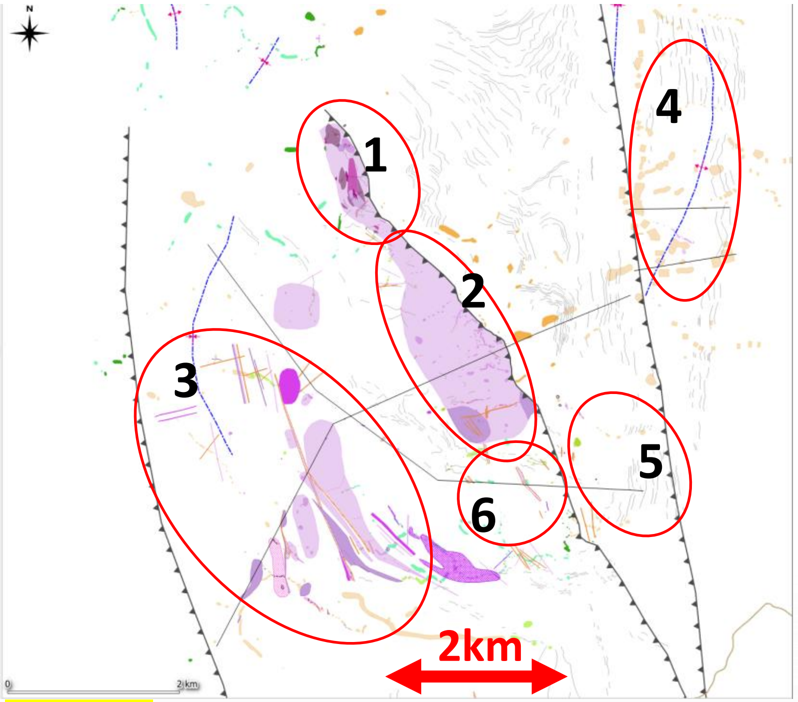


SOIL GOLD RESULTS g/t (30g FA)



Previsto Soil Geochemistry

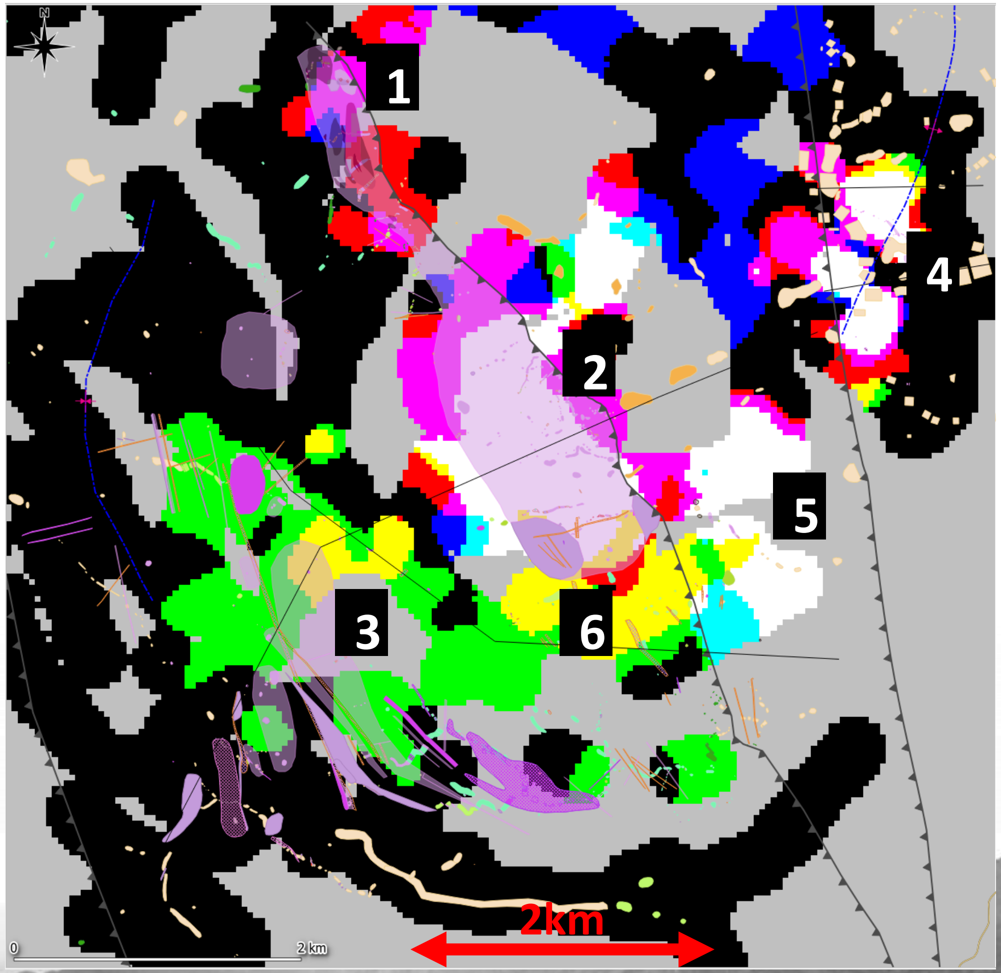
MAPPED INTRUSIONS AT PREVISTO



1: Copper
2: Copper-gold-moly
3: Gold
4: Copper-gold-moly
5: Gold
6: Copper-gold

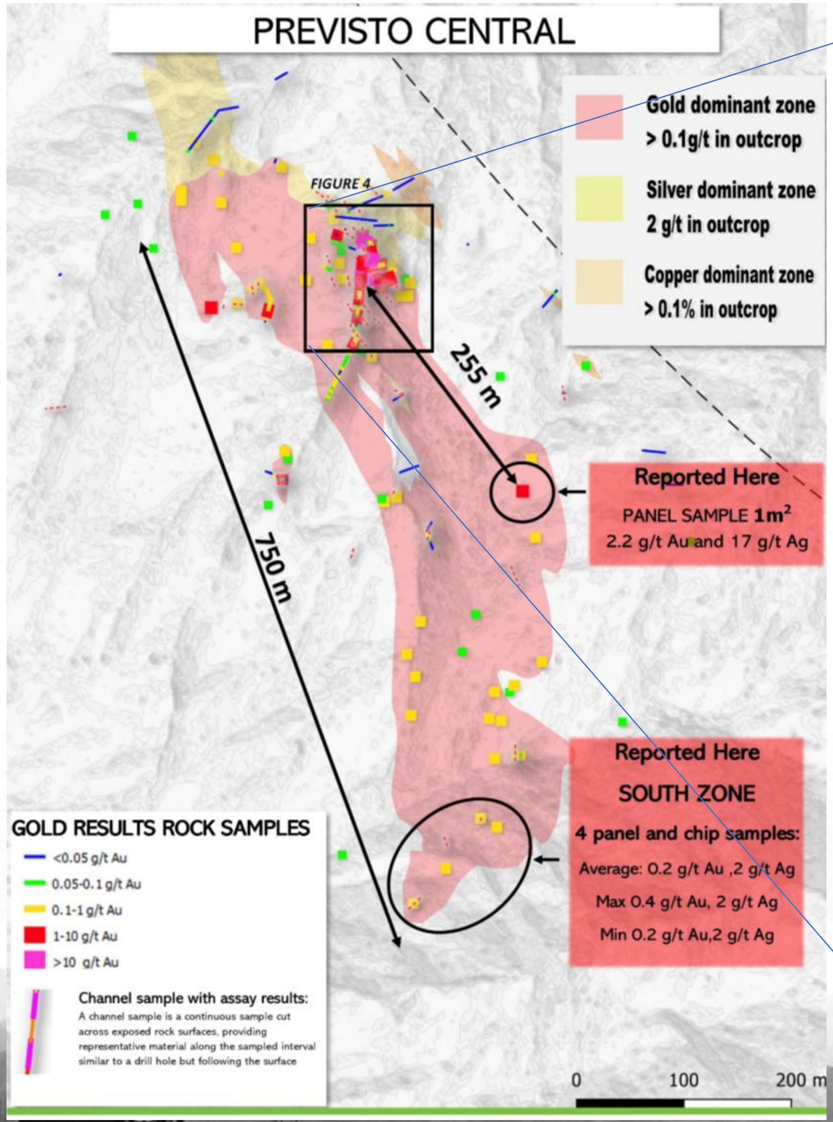
KFP Porphyry
FP Porphyry
mKFP Porphyry
FHP Porphyry
KFP Porphyry Bx
Microdiorite
BXH
mKFPP

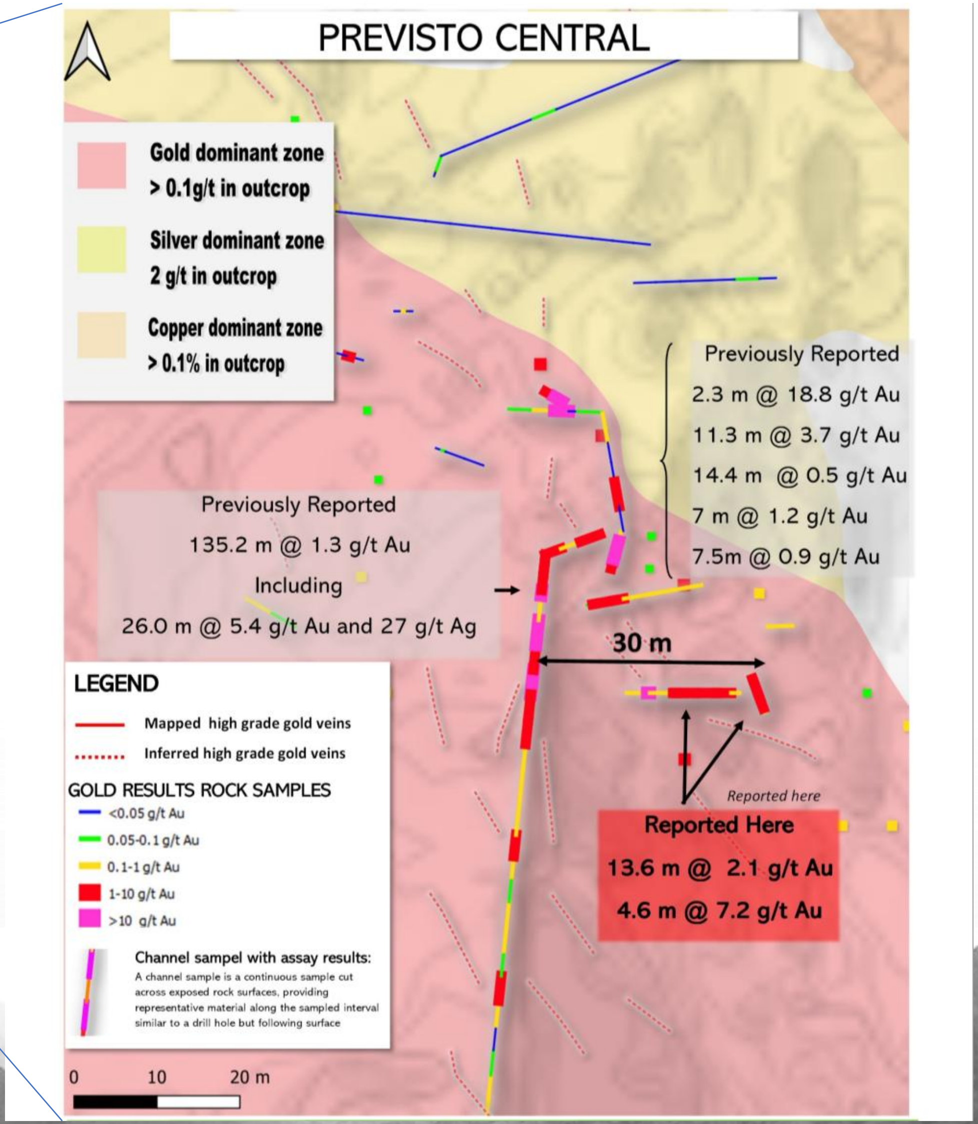
SOIL RGB MAP OVER THE MAPPED AREA



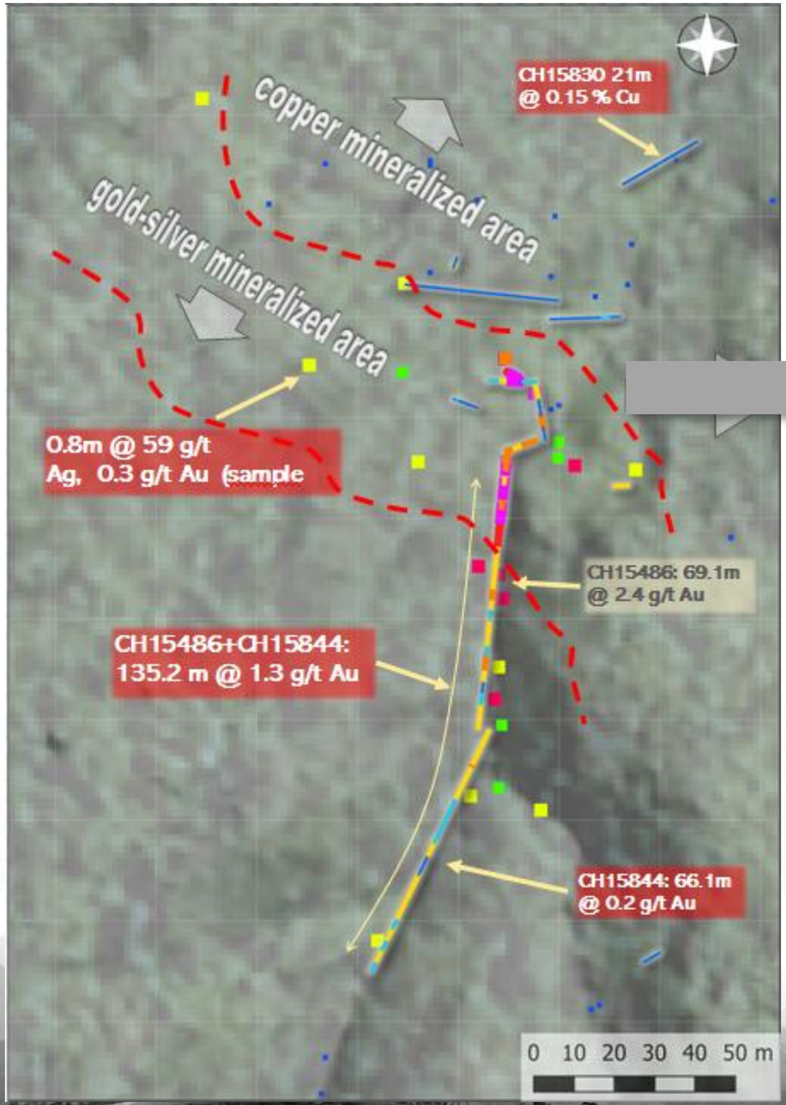
COPPER
GOLD
MOLY

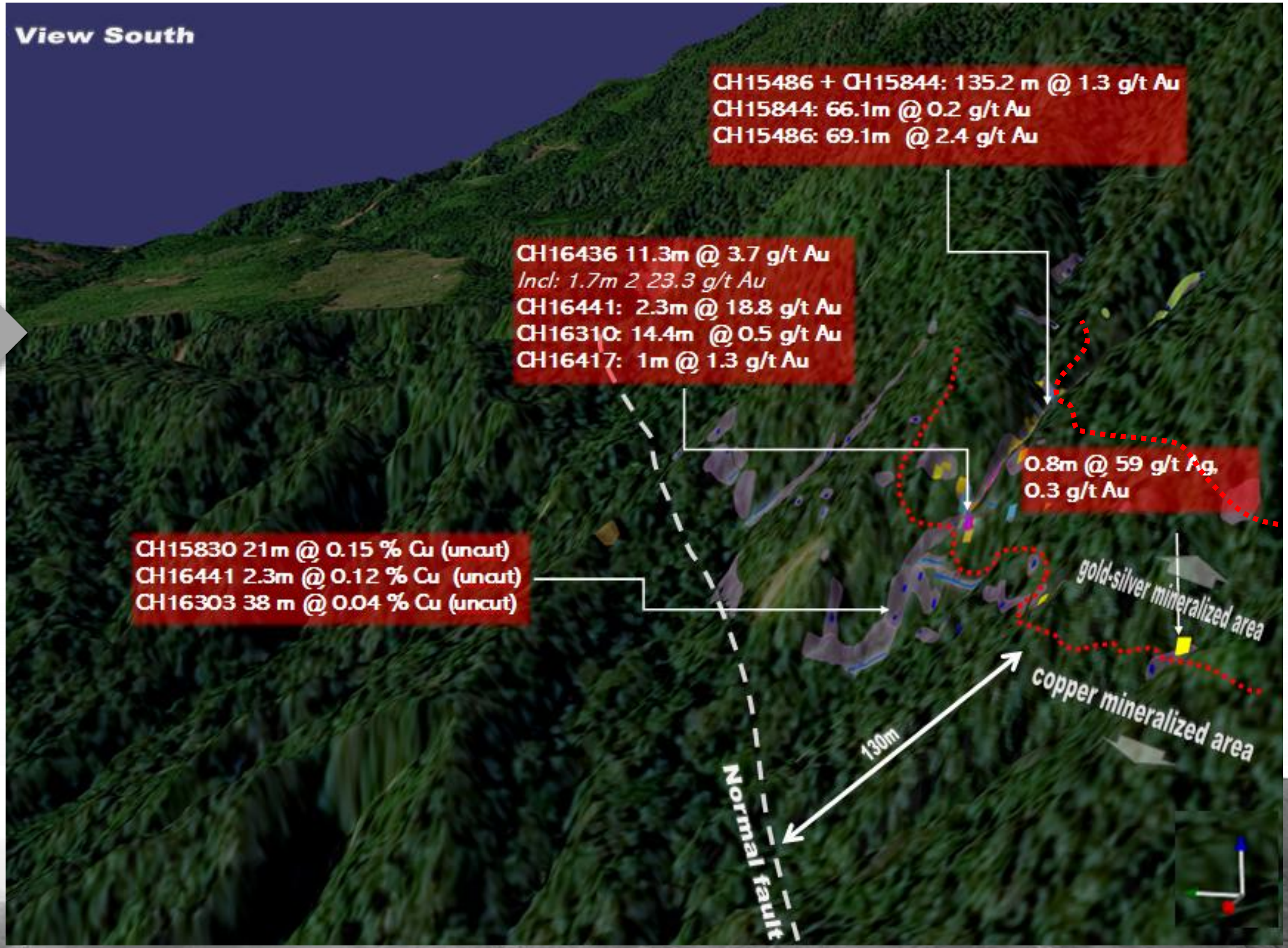
Previsto Results Gold Highlights



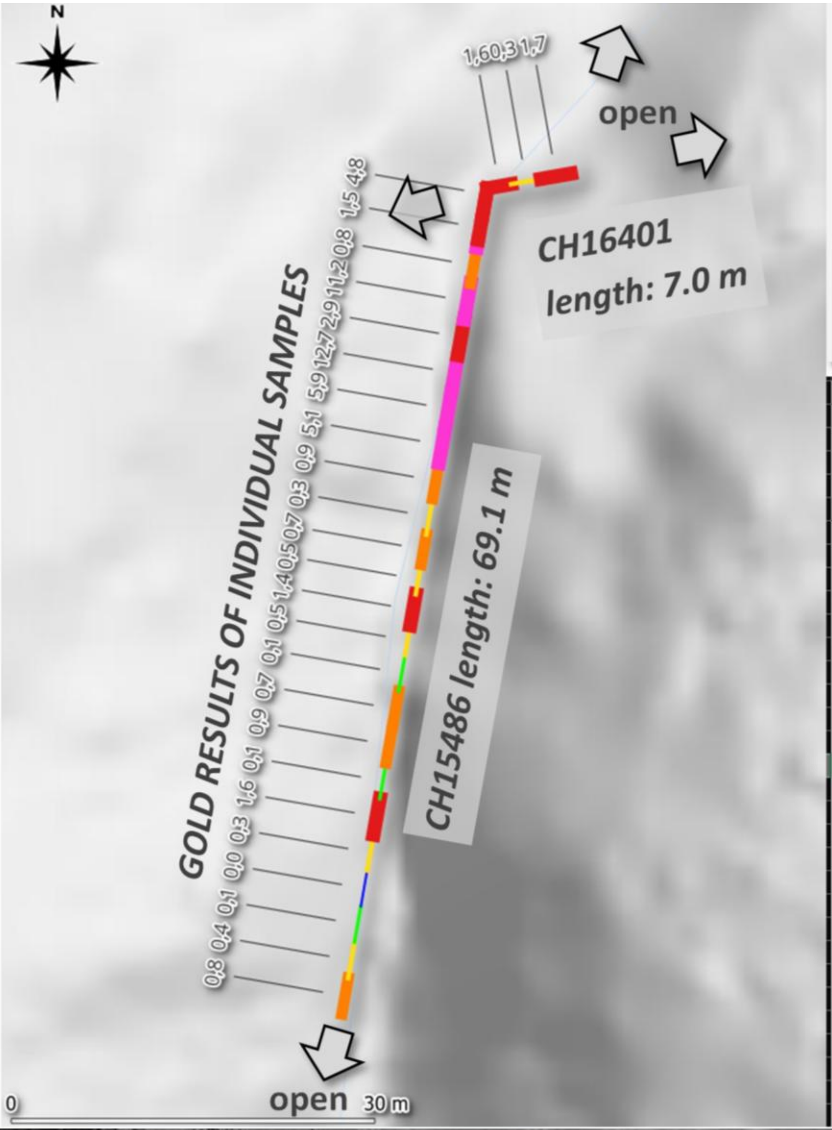


Previsto Results Gold Highlights





Previsto Channel Detail



CHANNEL RESULTS :

CH15486: 69.1 m @ 2.4 g/t Au and 13 g/t Ag, including:

26.0 m @ 5.4 g/t Au and 27 g/t Ag from 43.1m

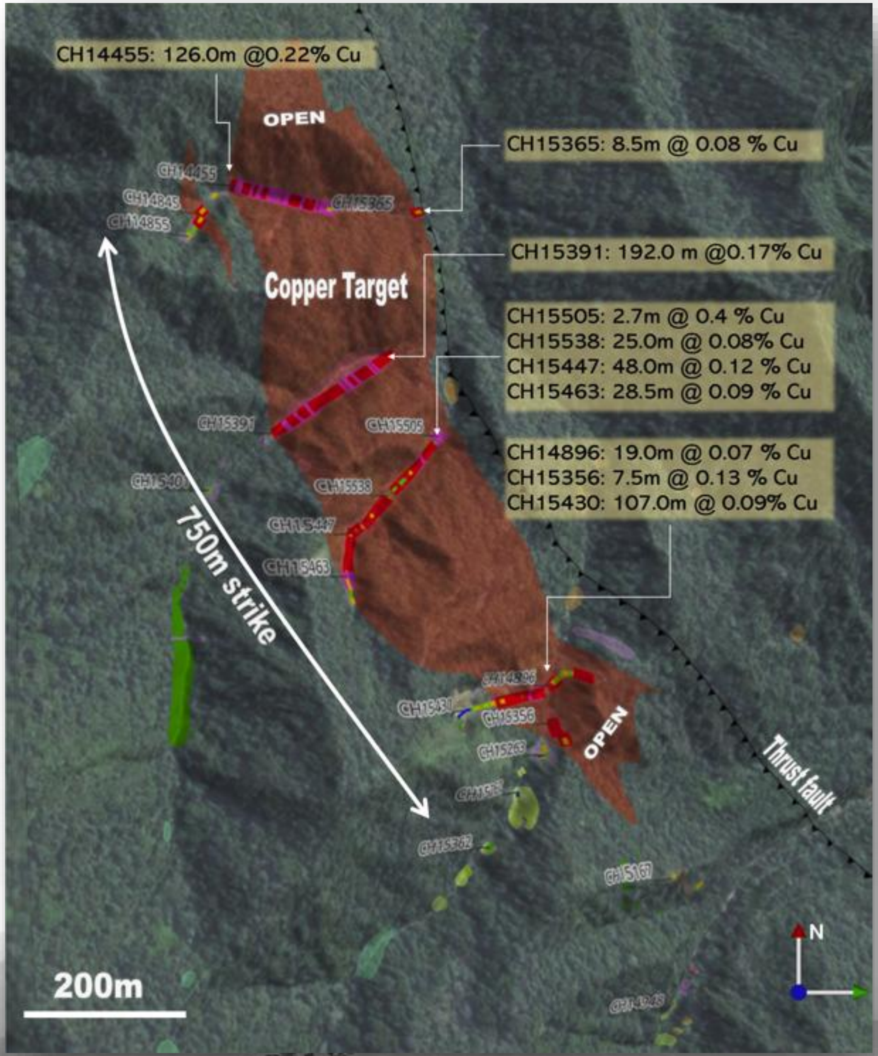
CH16401: 7.0 m @ 1.2 g/t Au and 19 g/t Ag, including:

2.0 m @ 1.6 g/t Au and 15 g/t Ag from 0m

2.5 m @ 1.7 g/t Au and 38 g/t Ag from 4.5m

Sample ID	From (m)	To (m)	Length (m)	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm	Te ppm	V ppm
CH16401 - 7m												
16401	0	2	2	1,6	15	475	21	107	30	16	11	1485
16402	2	4,5	2,5	0,3	3	297	32	133	25	18	2	418
16403	4,5	7	2,5	1,7	38	639	65	67	107	414	35	5790
CH15486 - 69.05m												
15486	0	3	3	0,8	5	220	170	37	101	48	7	320
15487	3	6	3	0,4	5	298	121	75	52	28	3	280
15488	6	9	3	0,1	3	170	84	35	56	16	2	215
15489	9	12	3	0,0	2	203	216	40	53	31	1	196
15490	12	15	3	0,3	3	289	294	75	47	56	3	373
15491	15	18	3	1,6	3	214	193	72	39	16	3	287
15492	18	21	3	0,1	1	124	204	26	28	14	1	213
15493	21	24	3	0,9	3	90	194	18	14	10	5	348
15494	24	27	3	0,7	5	128	108	22	42	15	4	258
15495	27	30	3	0,1	4	127	80	21	17	22	2	303
15496	30	32,5	2,5	0,5	5	108	144	21	19	21	3	287
16414	32,5	35,1	2,6	1,4	10	196	210	30	27	28	13	483
16413	35,1	37,6	2,5	0,5	4	116	67	33	21	13	9	568
16412	37,6	40,1	2,5	0,7	9	159	648	31	11	126	15	601
16411	40,1	43,1	3	0,3	7	117	686	24	15	210	7	948
16410	43,1	46,1	3	0,9	9	129	402	30	17	64	13	1530
16409	46,1	49,1	3	5,1	16	139	71	18	22	17	19	335
16408	49,1	52,1	3	5,9	23	310	65	33	58	30	22	900
16407	52,1	55,1	3	12,7	49	299	300	28	25	112	43	8530
16406	55,1	58,1	3	2,9	27	350	49	41	39	14	16	792
16405	58,1	61,1	3	11,2	53	364	65	84	52	21	36	2530
16404	61,1	64,1	3	0,8	16	360	34	70	39	18	9	1345
15100	64,1	64,75	0,65	16,1	60	378	31	48	13	17	48	10000
15099	64,75	66,75	2	1,5	15	430	22	129	39	16	8	1330
15098	66,75	68,05	1,3	3,6	27	560	29	87	39	13	20	1865
15097	68,05	69,05	1	4,8	19	512	25	95	34	10	11	1840

Previsto Results Copper Highlights



Extensive Mineralized Footprint: Copper mineralization confirmed over 750m strike length (inferred to 1300m) with widths up to 192m through systematic channel sampling.

Distinctive Alteration Pattern: unusual porphyry characteristics with moderate to strong phyllic alteration (V-rich mica), discrete potassic zones, and multiple sulphide vein assemblages.

High Expansion Potential: open to north, south, and east with evidence of primary sulfides (pyrite 1-5%, chalcopyrite up to 1%) and secondary copper minerals, suggesting a significantly larger mineralized body.

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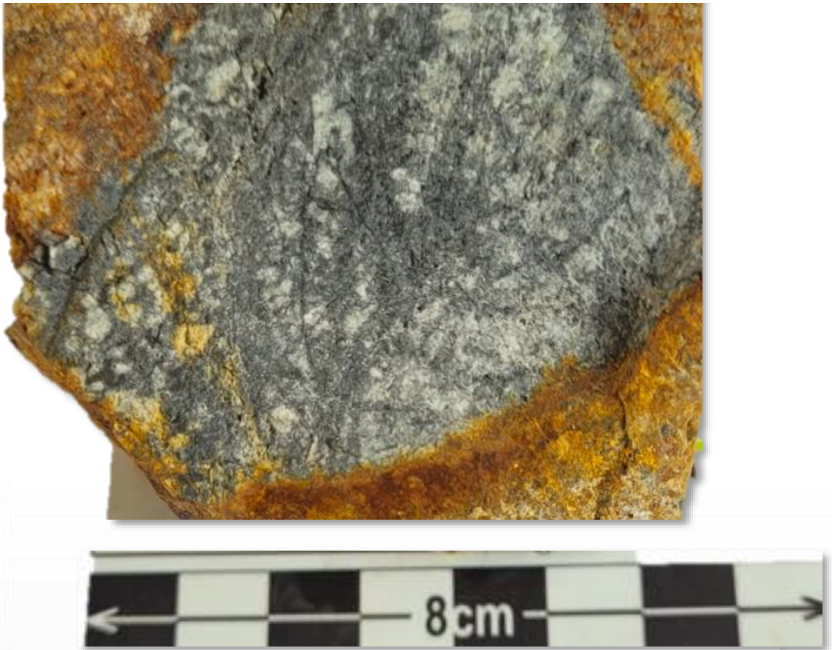
Gold Related Alteration And Mineralization

INCREASING GOLD GRADE



Grey adularia pyrite alteration
3m @ : 0.89g/t Au, 3g/t Ag, 5ppm Te

Granular adularia with manganese oxide after rhodochrosite alteration: 1.3m @ 3.6g/t Au, 27g/t Ag, 5ppm Te

Pervasive roscoelite alteration with adularia: 1.7m @ 23.4g/t Au, 87g/t Ag, 91 ppm Te

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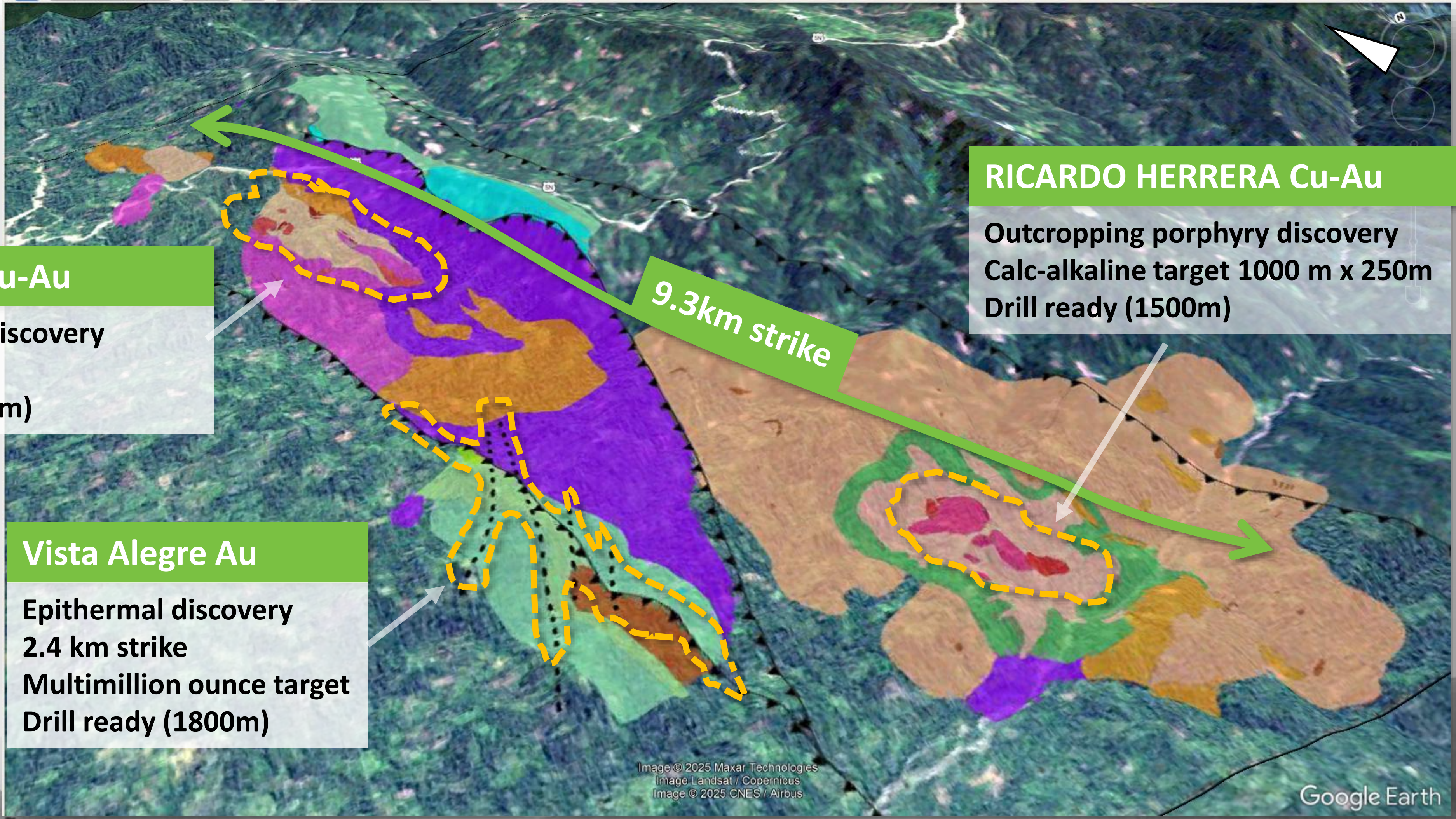
Belen Overview – 3 targets Q2 2025 Drilling



SORTILEGIO Cu-Au

Blind porphyry discovery
Alkaline target
Drill ready (1500m)

Vista Alegre Au

Epithermal discovery
2.4 km strike
Multimillion ounce target
Drill ready (1800m)

RICARDO HERRERA Cu-Au

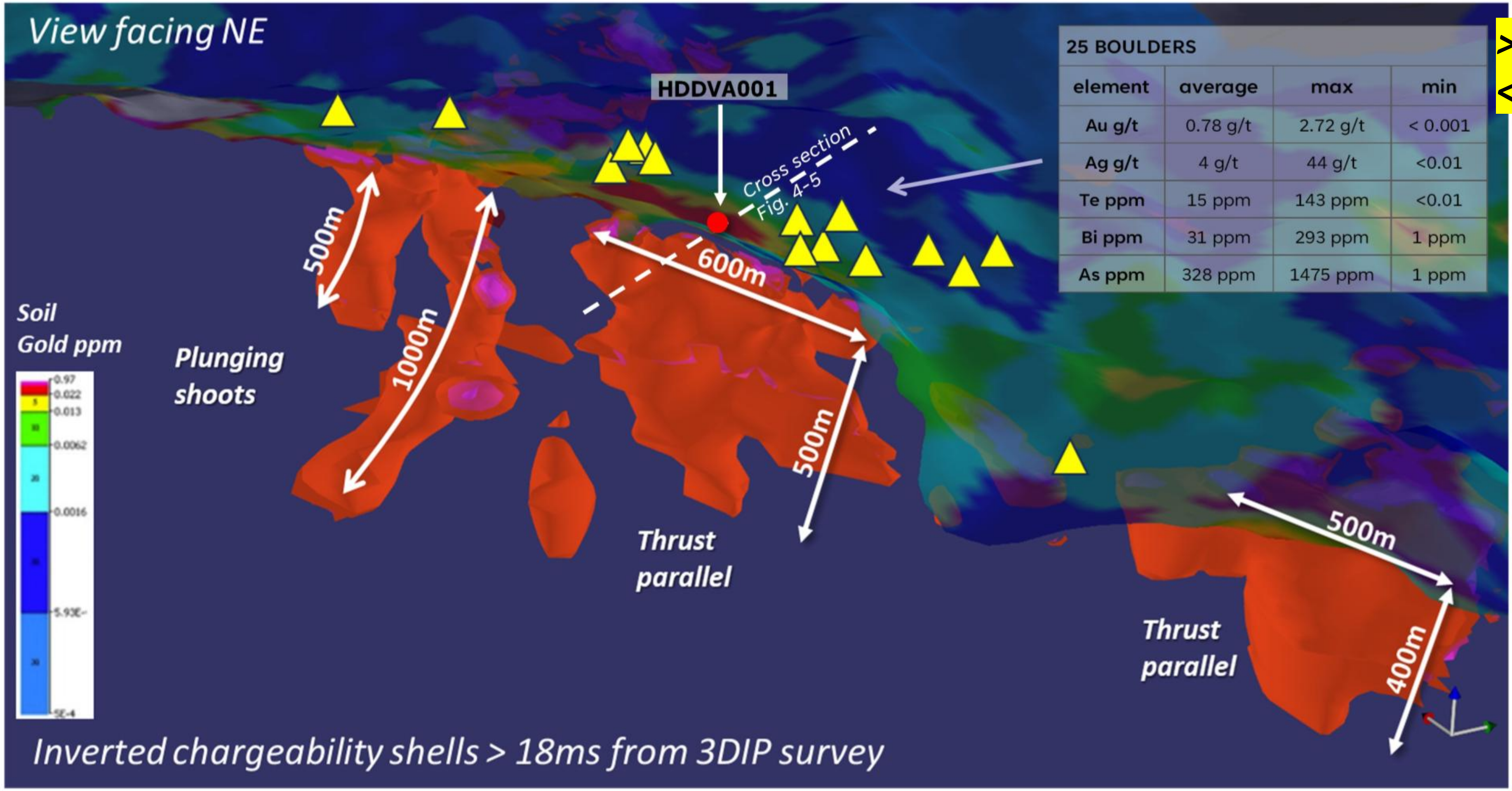
Outcropping porphyry discovery
Calc-alkaline target 1000 m x 250m
Drill ready (1500m)

Vista Alegre – Epithermal Gold Target

Epithermal discovery
> 2.4 km strike

High chargeability-low
resistivity

Multi-million ounce target potential
Drill ready

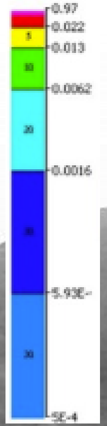


25 BOULDERS

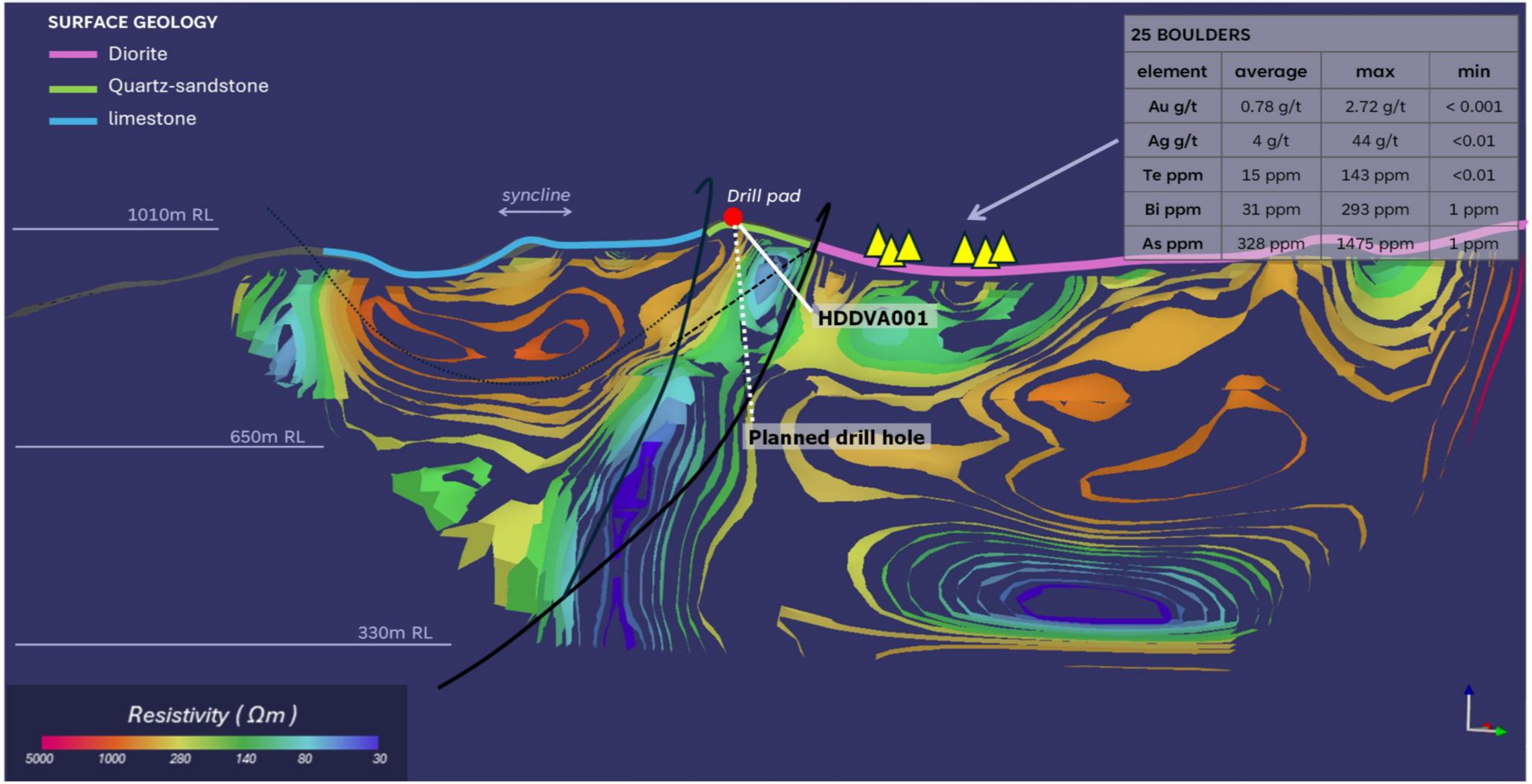
element	average	max	min
Au g/t	0.78 g/t	2.72 g/t	< 0.001
Ag g/t	4 g/t	44 g/t	<0.01
Te ppm	15 ppm	143 ppm	<0.01
Bi ppm	31 ppm	293 ppm	1 ppm
As ppm	328 ppm	1475 ppm	1 ppm

>25 boulders
<0.01 – 2.7 ppm Au

Soil
Gold ppm



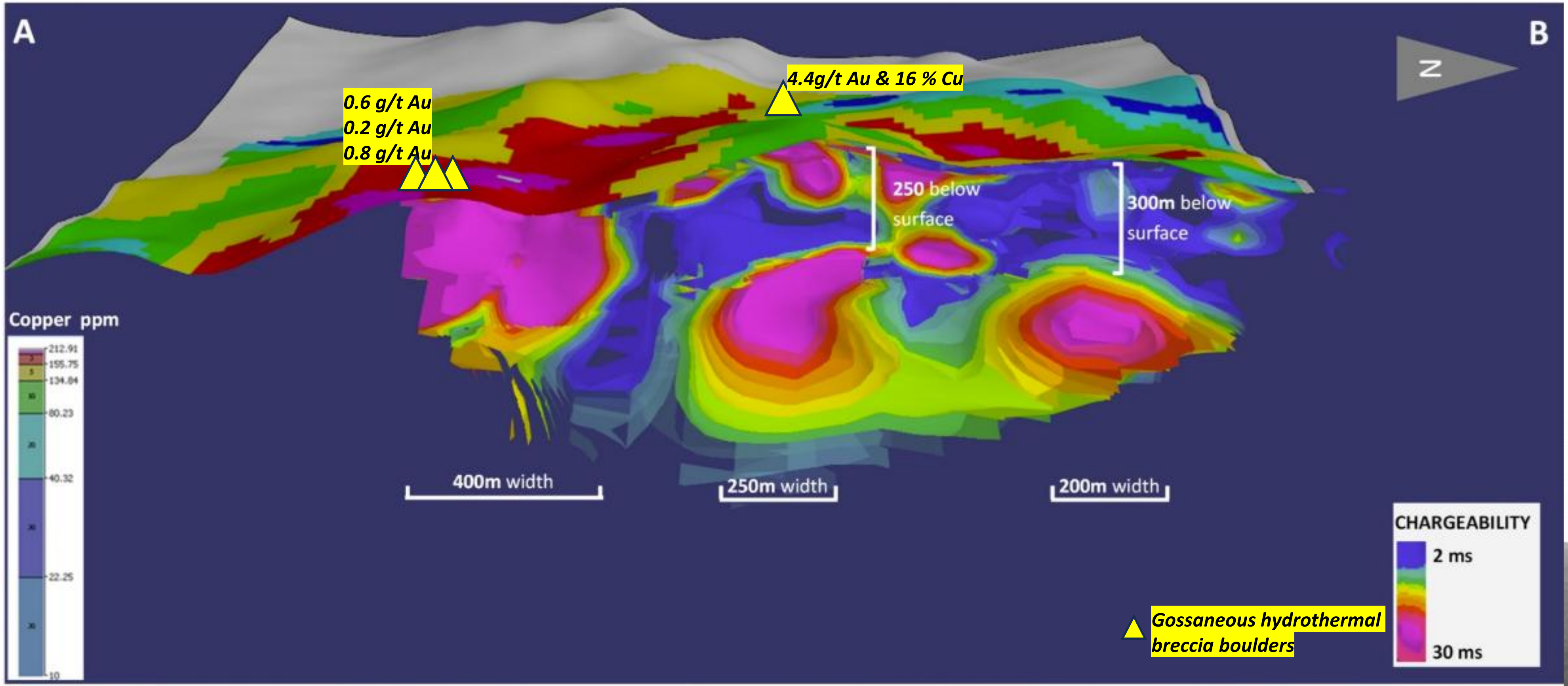
Vista Alegre – Epithermal Gold Target



25 BOULDERS			
element	average	max	min
Au g/t	0.78 g/t	2.72 g/t	< 0.001
Ag g/t	4 g/t	44 g/t	<0.01
Te ppm	15 ppm	143 ppm	<0.01
Bi ppm	31 ppm	293 ppm	1 ppm
As ppm	328 ppm	1475 ppm	1 ppm

Sortilegio Alkalic Cu-Au - IP Geophysics

LONGSECTION ACROSS THE 3D IP SURVEY AREA AT SORTILEGIO



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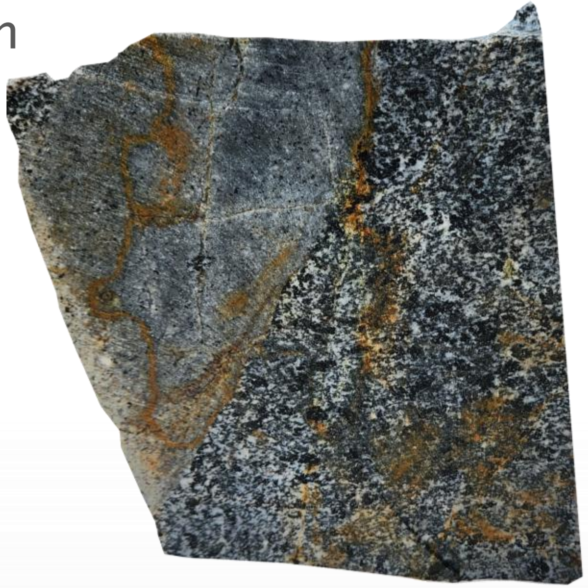
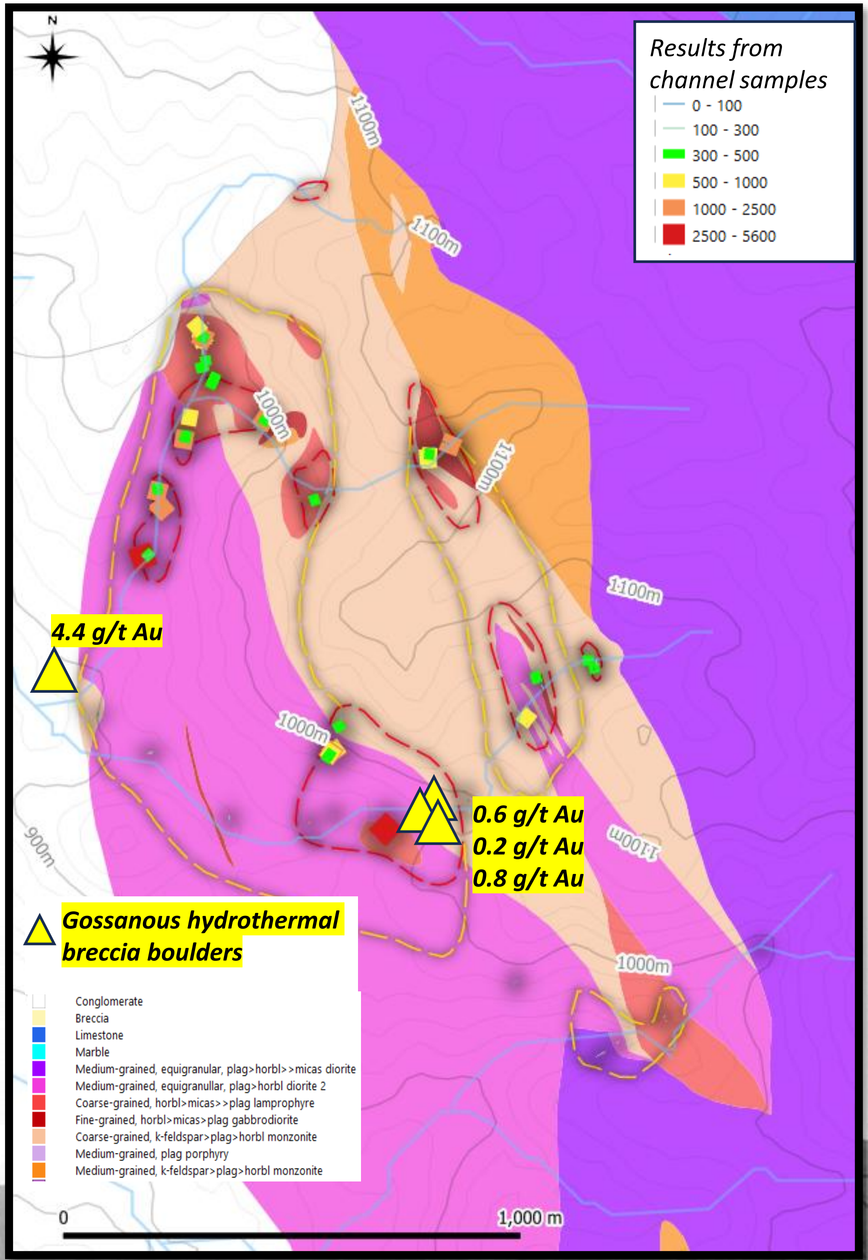
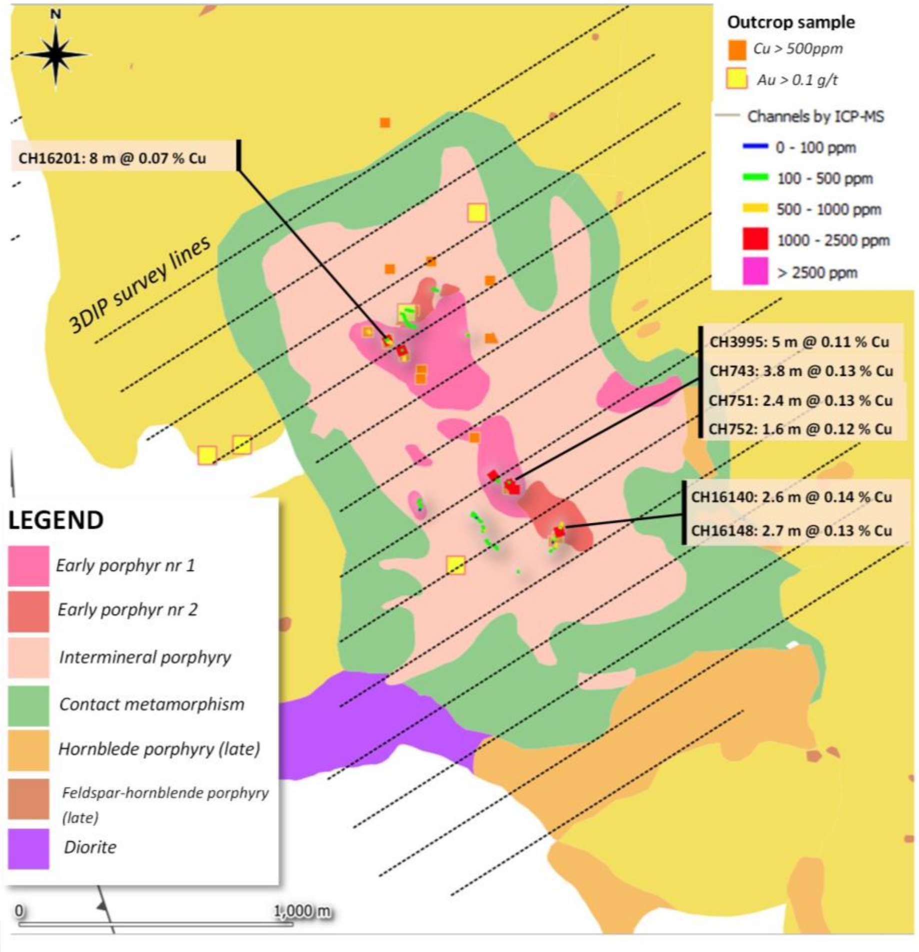
SORTILEGIO

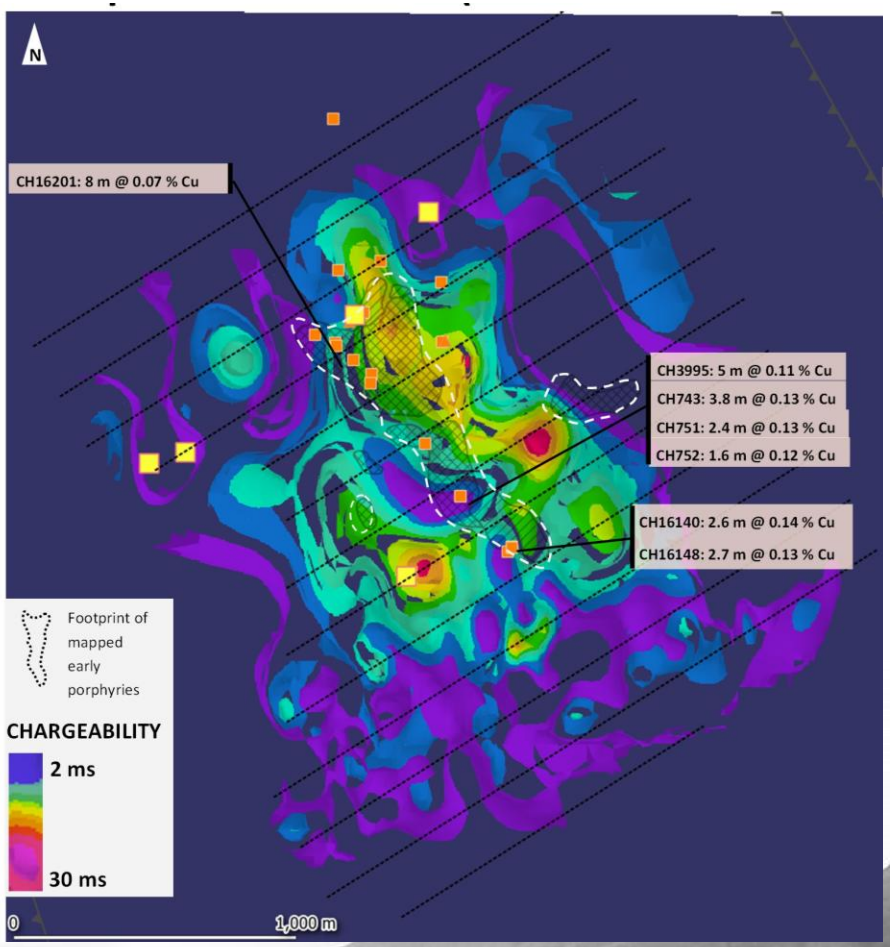
- Multistage event of intrusive rocks from basic to acid composition.
- 1.5km x 1.0 km alkalic porphyry target.
- 6 cores zones of copper mineralization in the form of stockwork of goethite-hematite veinlets were identified.
- 42 channels have been taken from the 6 zones with >20 veinlets / meter.
- Of these 38 channels have composite values of 2.54m @ 788 ppm Cu and with a maximum of 4365 ppm Cu and minimum of 258 ppm Cu with a length from 0.8m to 10m





Ricardo Herrera Porphyry - IP Geophysics





Hannan in 2025

1. Exploration Focus: targeting large gold and copper mineralizing systems in unexplored areas of Peru.

2. Unique Exploration Advantage: The projects leverage untapped back-arc basin settings known for high-grade deposits, reduced competition, and better risk-reward profile

3.Drilling Now at Belen, Valiente (Peru)

4. Strategic Partnerships: Hannan Metals has partnerships with JOGMEC (San Martin JV) and TECK (9.9% equity stake), reflecting strong industry support

HANNAN METALS

Discovery of large copper and gold mineralizing systems in new frontiers

Hannanmetals

TSXv: HAN

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Appendices

Hannanmetals

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Peru – San Martin Cu-Ag Project

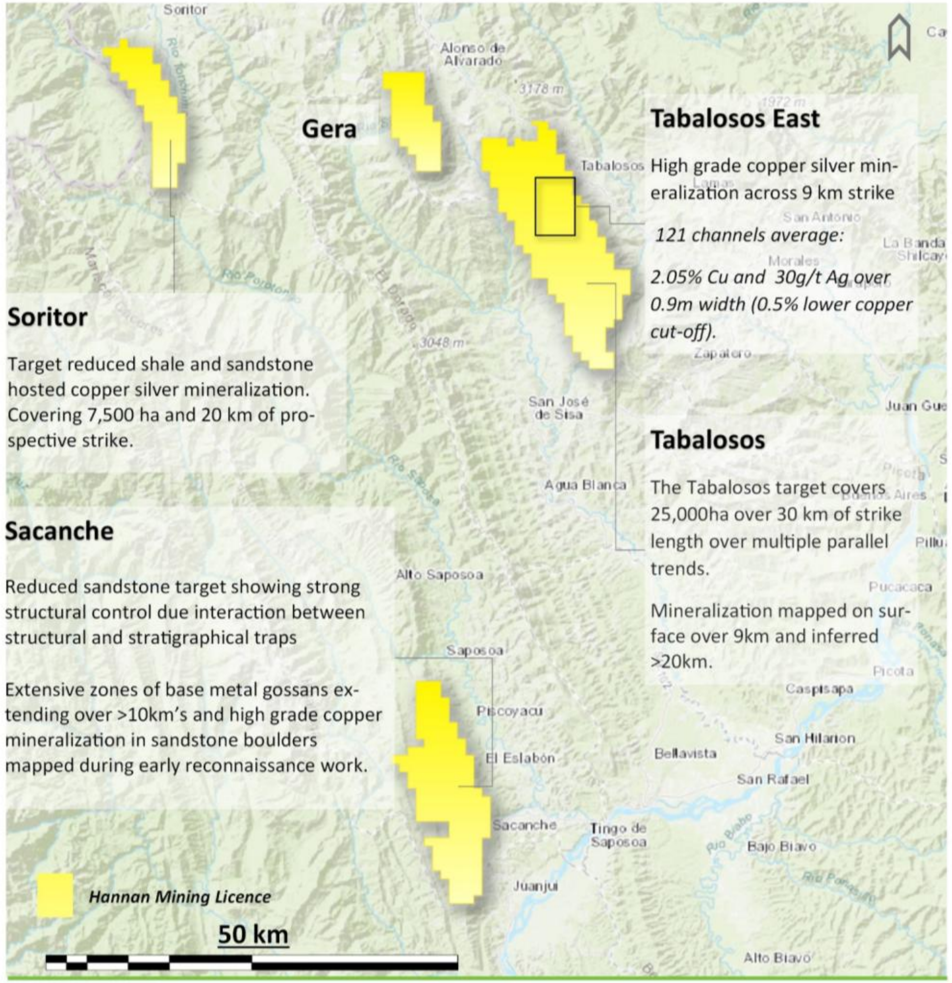
Reduced Sandstone Target Style

Highly sought after and prospective style of sediment hosted copper mineralization discovered in San Martin

Extensive zones of base metal gossans extending over >10km’s and high-grade copper mineralization in sandstone boulders

DIA Drill Permit Granted Jan 2024, drilling planned Q4 2024

New discovery at Soritor: 2.3 km of strike including 5.8 m at 3.1% copper and 65 g/t silver from surface.



Peru – San Martin Cu-Ag Project

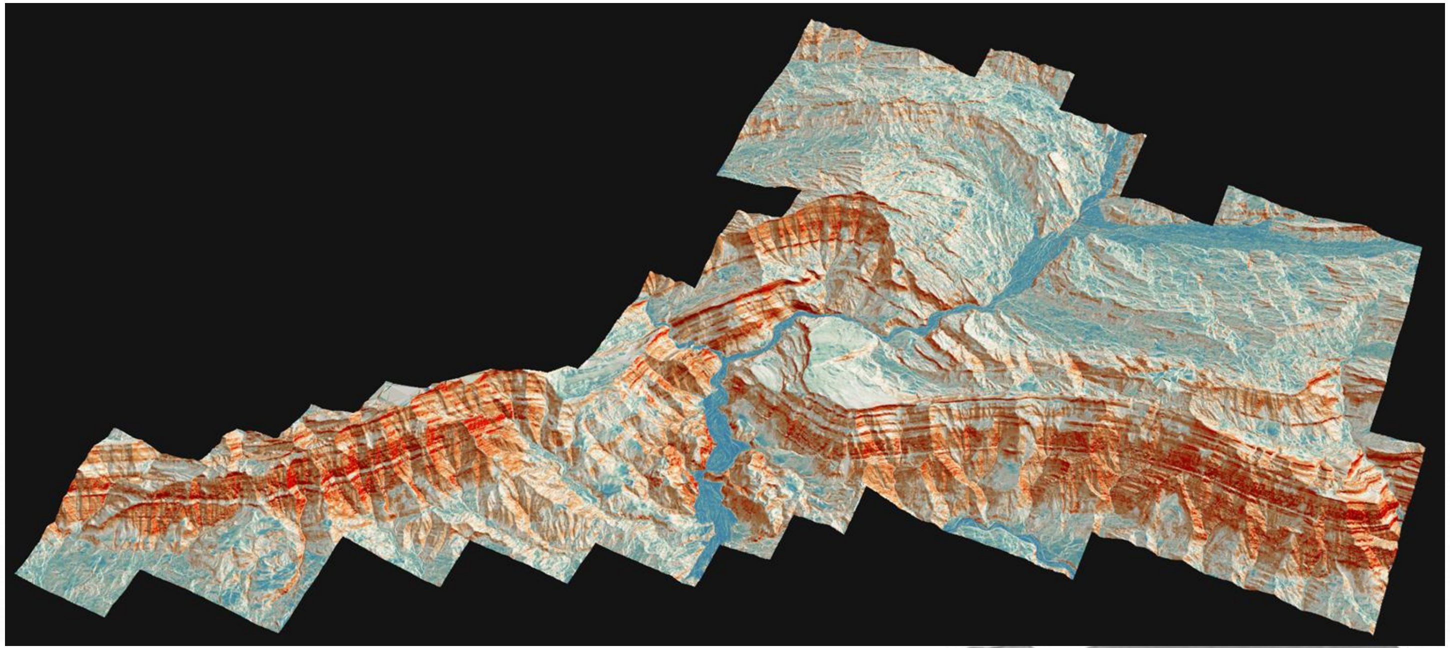
An emerging sediment hosted copper basin

Key geological elements for the development of giant deposits

Analogous to the Central African Copper Belt, the San Martin Project evolved as a salt rich intra-cratonic basin and was subsequently affected by compressional deformation

Two targets reduced shale and reduced sandstone target.

HANNAN LiDAR SURVEY



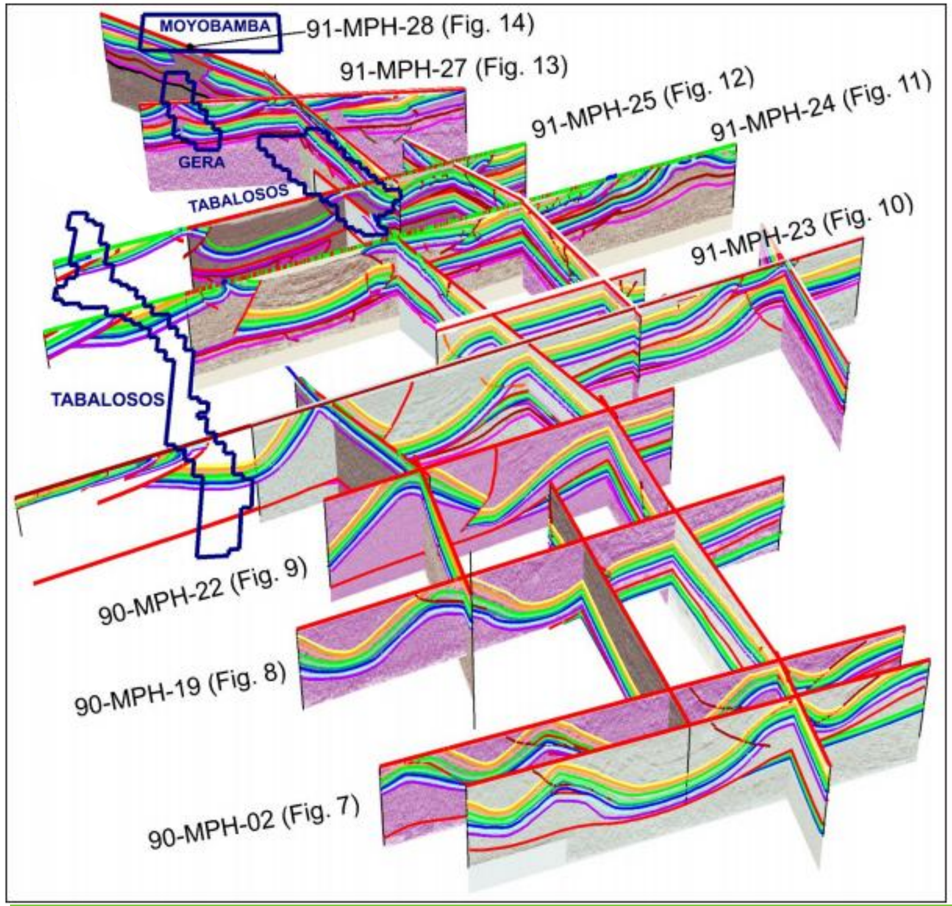
Peru – San Martin Cu-Ag Project

Geological de-risking

- Project has been de-risking with 2D seismic to understand basin evolution and fluid pathways
- LiDAR is used to map mineralization at low cost under the dense jungle canopy.
- High grade copper silver mineralization across vast areas. *121 channels average:*

2.05% Cu and 30g/t Ag over 0.9m width

(0.5% lower copper cut-off)

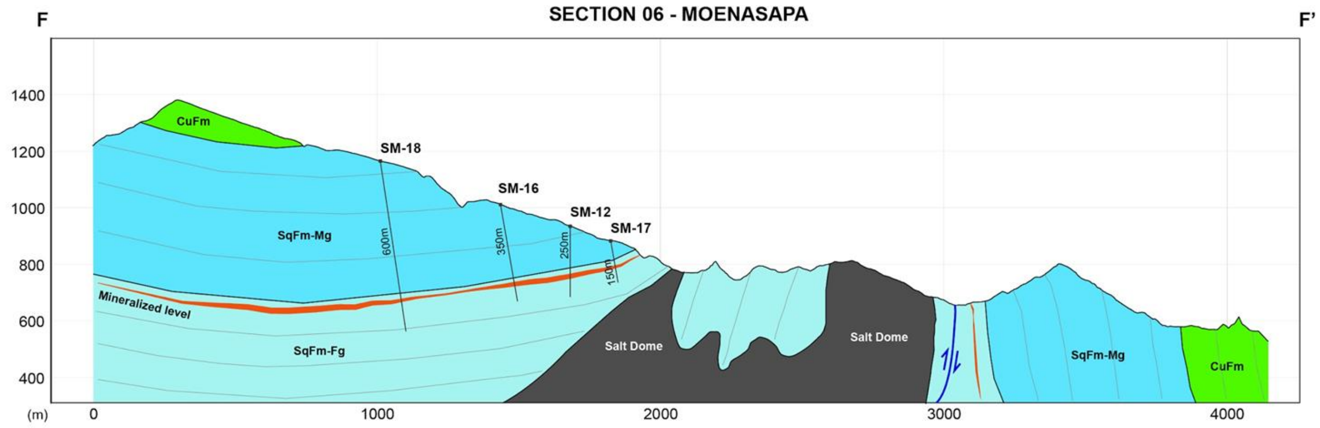


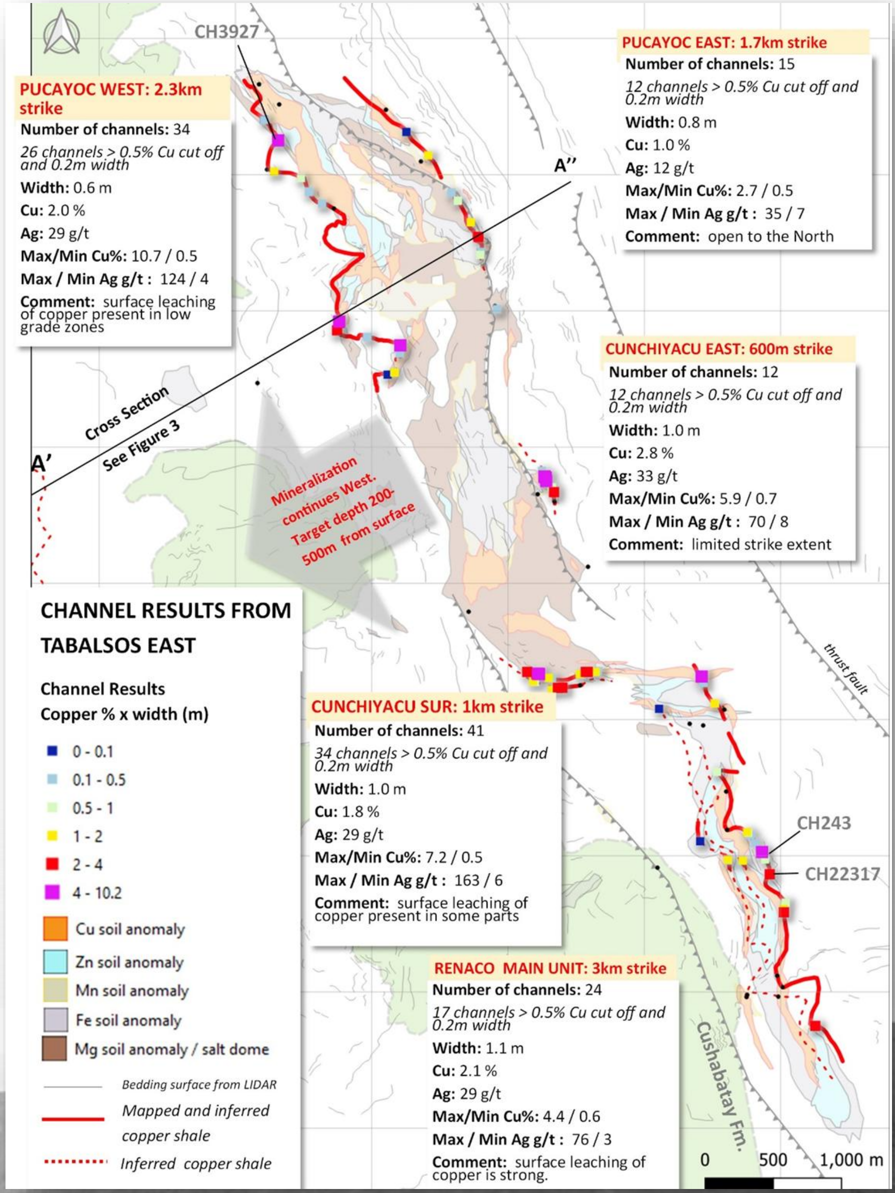
Peru – San Martin

Drill Program 2024 – Q2

2000m drill program – fully funded by JOGMEC

Outcropping high grade copper mineralization over 7 km of strike and down to a vertical depth of at least 500 meters





Peru – San Martin

Planned Drill Program