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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.

07 Nov 2024

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)

Capital Structure

INSIDERS:	14%
SHARES ON ISSUE:	120.9m
FULLY DILUTED:	139.2m
SHARE PRICE:	$0.93 (JULY 18, 2025)
MARKET CAP:	C$116m (JULY 18, 2025)
CASH:	C$1.9m (FEB 28, 2025)
WARRANTS:	4.7m
OPTIONS	9.5m
TMX TSX Venture Exchange	HAN
OTCPink	HANNF

Historic Chart for Cdn:HAN by Stockwatch.com 604.687.1500 - (c) 2025
Fri Jul 18 2025 Op=0.98 Hi=0.99 Lo=0.92 Cl=0.93 Vol=197,026 Year hi=1.49 lo=0.40

	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 km^2

Valiente 920 km^2

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

San Martin 685 km^2

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

Peru

SAN MARTIN

TARAPOTO

VALIENTE

TINGO MARIA

LIMA

0   1,000 km

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.
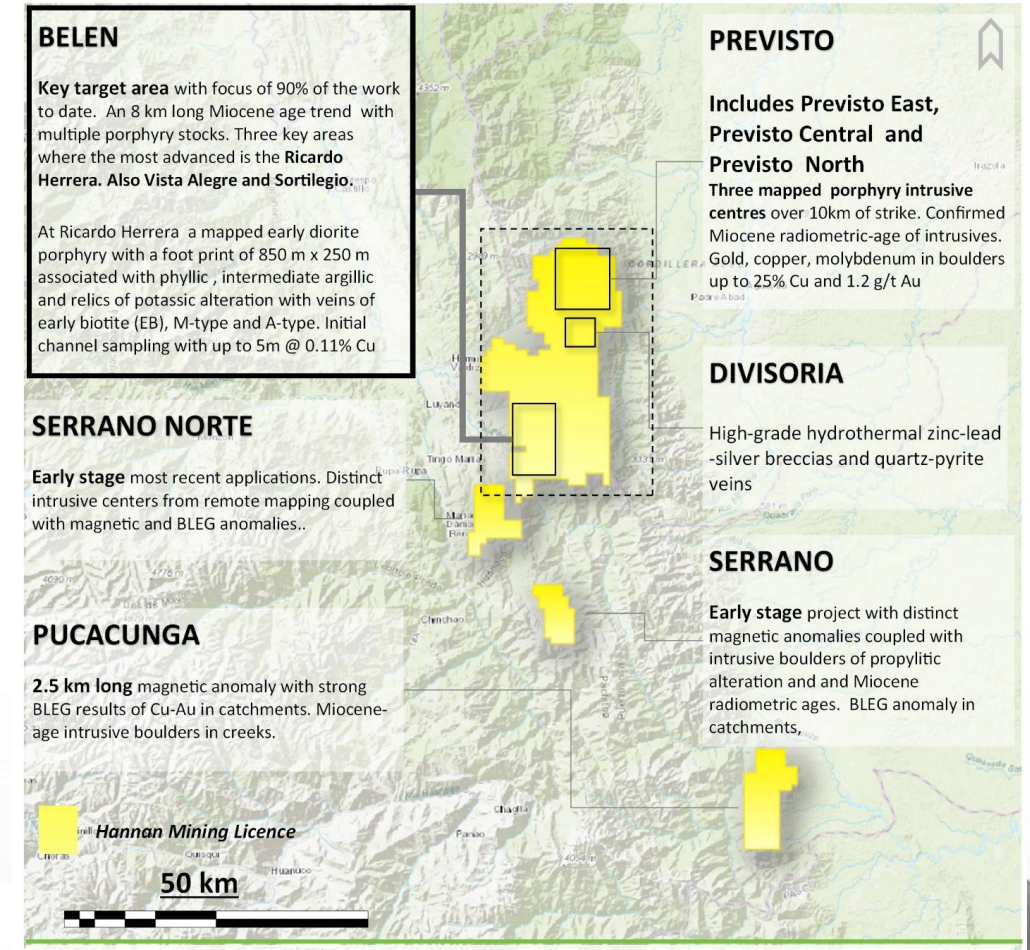

A New Miocene Porphyry Belt in the Back Arc

Hannan Target

150 km

USGS Porphyry deposit
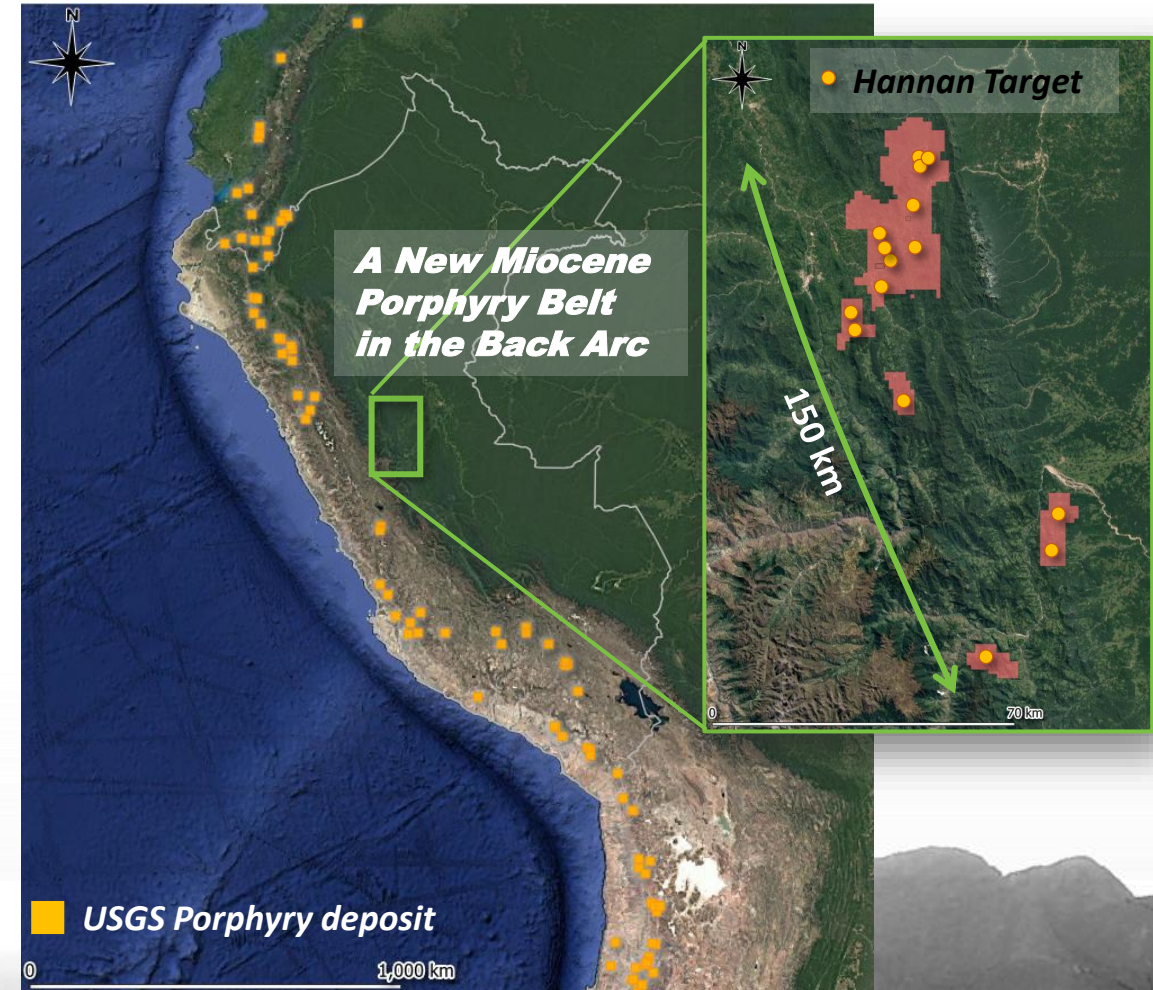
Peru – Valiente Porphyry Cluster

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.
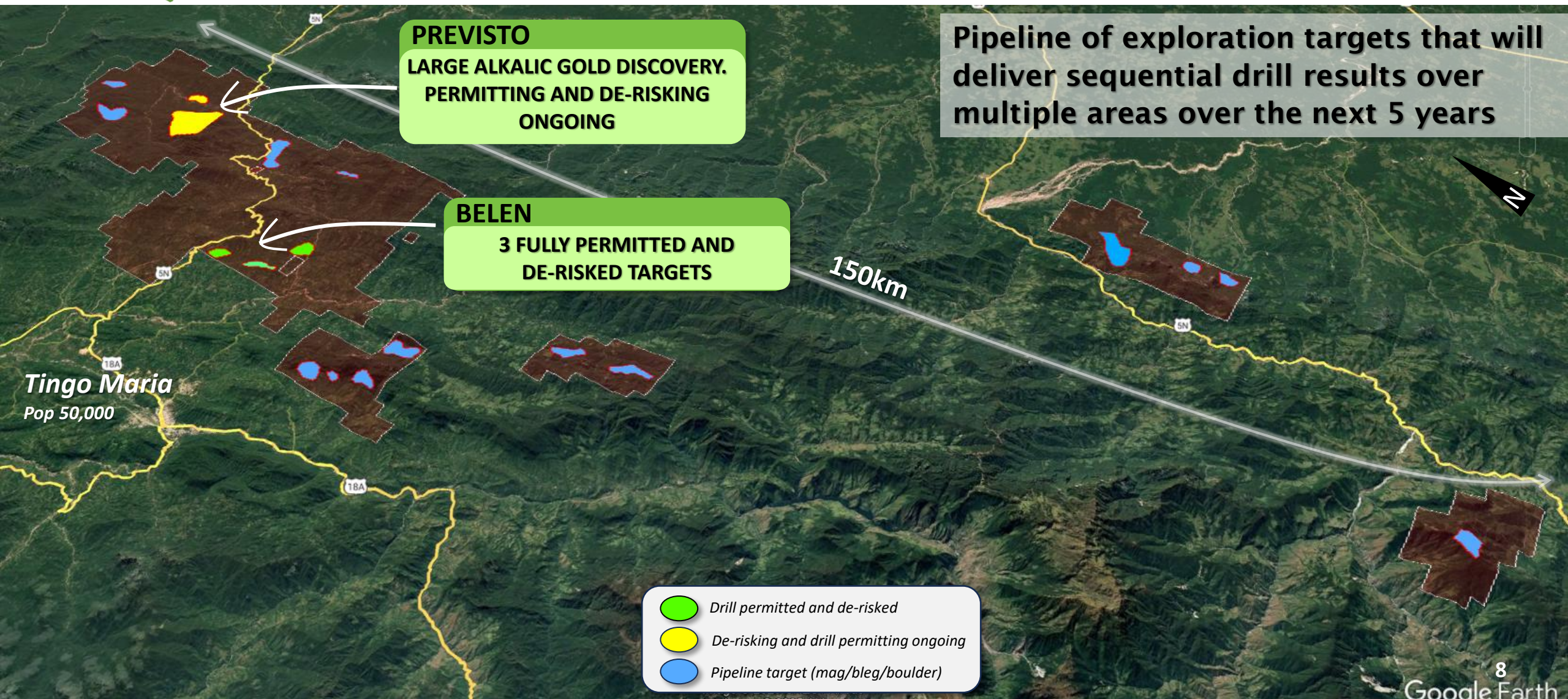

BELEN

Key target area with focus of 90% of the work to date. An 8 km long Miocene age trend with multiple porphyry stocks. Three key areas where the most advanced is the **Ricardo Herrera. Also Vista Alegre and Sortilegio.**

At Ricardo Herrera a mapped early diorite porphyry with a foot print of 850 m x 250 m associated with phyllic , intermediate argillic and relics of potassic alteration with veins of early biotite (EB), M-type and A-type. Initial channel sampling with up to 5m @ 0.11% Cu

SERRANO NORTE

Early stage most recent applications. Distinct intrusive centers from remote mapping coupled with magnetic and BLEG anomalies..

PUCACUNGA

2.5 km long magnetic anomaly with strong BLEG results of Cu-Au in catchments. Miocene-age intrusive boulders in creeks.

🟨 *Hannan Mining Licence*

50 km

PREVISTO

Includes Previsto East, Previsto Central and Previsto North
Three mapped porphyry intrusive centres over 10km of strike. Confirmed Miocene radiometric-age of intrusives. Gold, copper, molybdenum in boulders up to 25% Cu and 1.2 g/t Au

DIVISORIA

High-grade hydrothermal zinc-lead -silver breccias and quartz-pyrite veins

SERRANO

Early stage project with distinct magnetic anomalies coupled with intrusive boulders of propylitic alteration and and Miocene radiometric ages. BLEG anomaly in catchments,

Peru – Valiente Porphyry Cluster

A giant metal district in early discovery stage

PREVISTO
LARGE ALKALIC GOLD DISCOVERY. PERMITTING AND DE-RISKING ONGOING

BELEN
3 FULLY PERMITTED AND DE-RISKED TARGETS

Pipeline of exploration targets that will deliver sequential drill results over multiple areas over the next 5 years

150km

Tingo Maria
Pop 50,000

Drill permitted and de-risked

De-risking and drill permitting ongoing

Pipeline target (mag/bleg/boulder)

8

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

Gold (ppm) in Soils

5 km

5 km

Previsto
Drilling Anticipated late 2026

Sortilegio

Belen
Drilling Q2 2025

Vista Alegre

Ricardo Herera
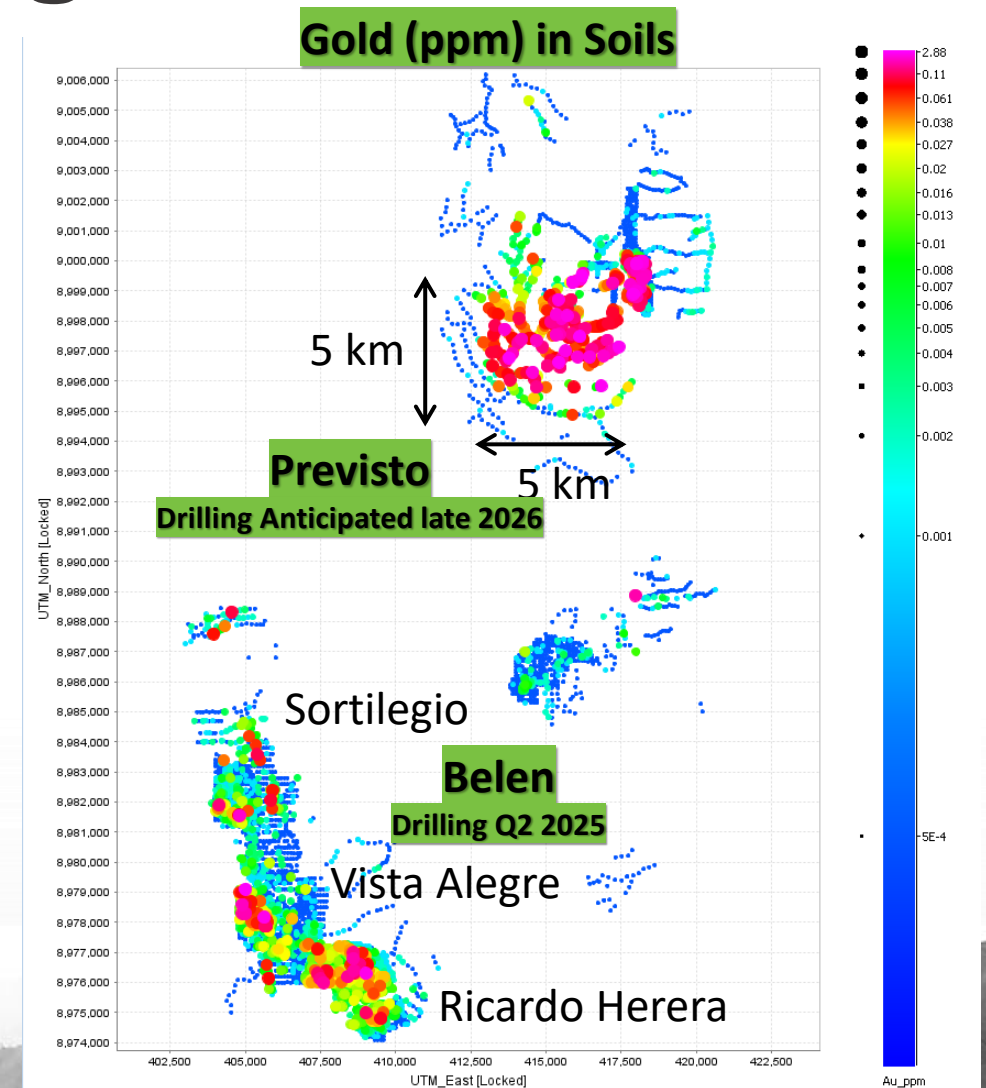
Why Target Alkaline Epithermal Gold?

✓= **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
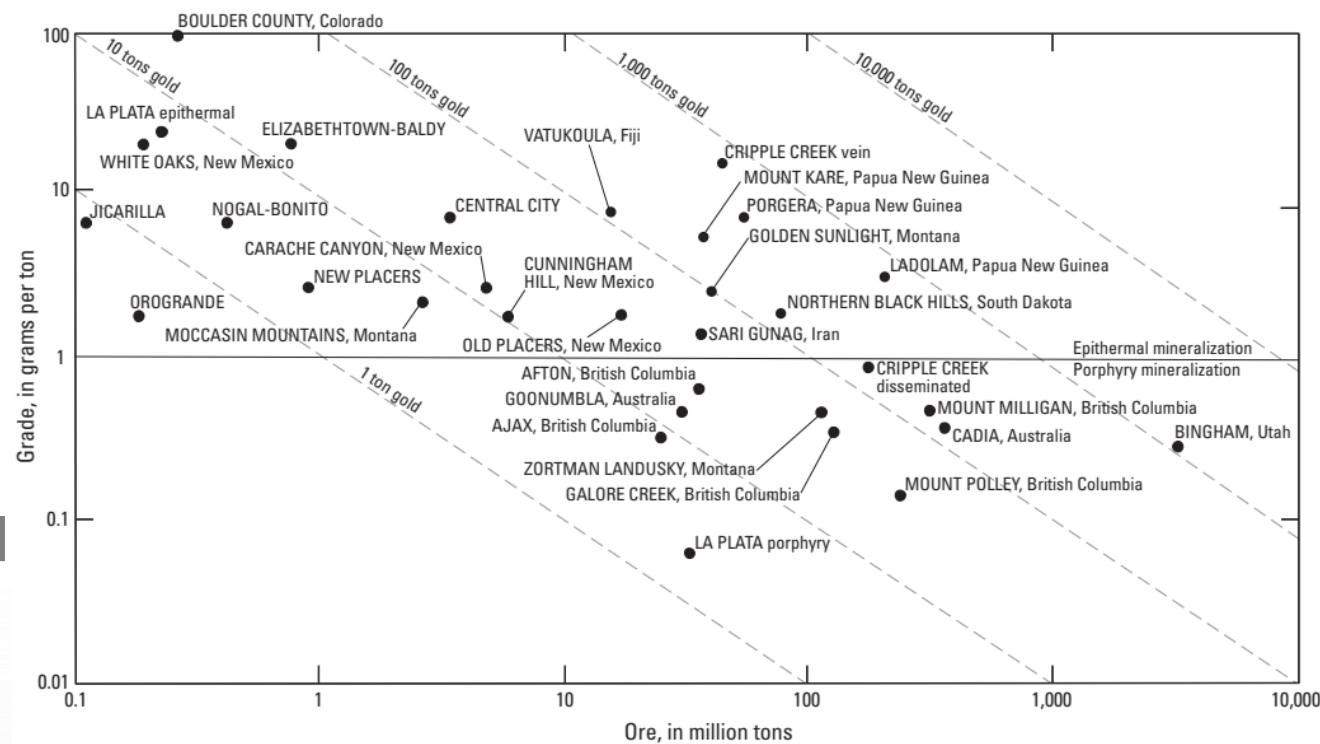
USGS 2020, after Kelley and Ludington 2002

The Alkaline Epithermal Gold Model

From Hay etal. 2020

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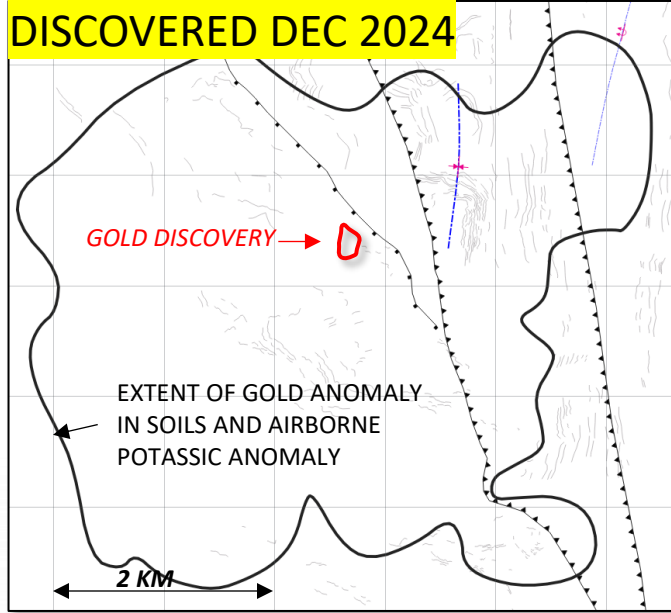
Geological Environments: within calderas or subvolcanic with shallow hypabyssal intrusions and diatremes

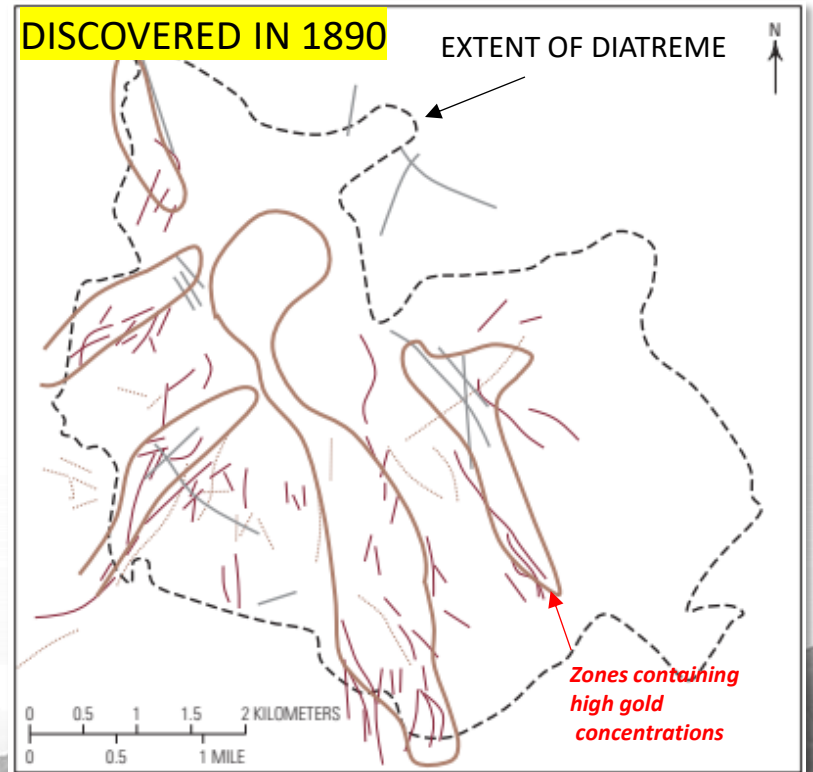EXAMPLE: PORGERA (PNG)

Previsto Compared to Major Deposits

HANNAN ALKALINE EXPLORATION TARGET:
PREVISTO INTRUSIVE COMPLEX

PORGERA INTRUSIVE COMPLEX: **EST. GOLD ENDOWMENT TO DATE 33-37MOz**
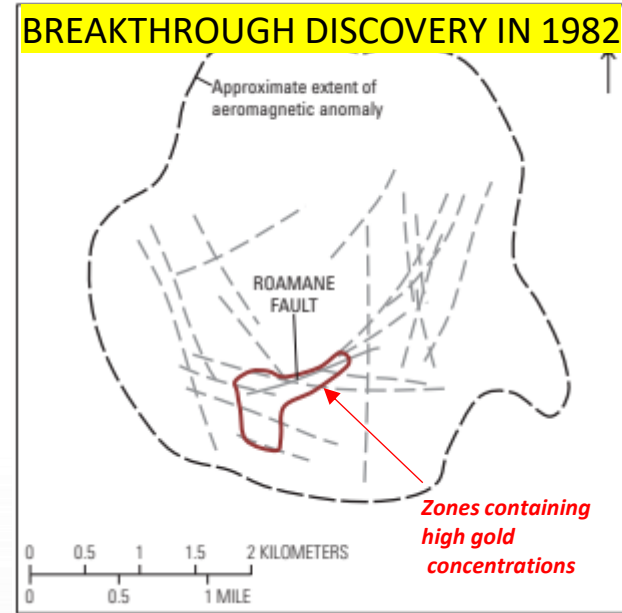
CRIPPLE CREEK DISTRICT HISTORIC **EST. GOLD ENDOWMENT TO DATE 27-30MOz**

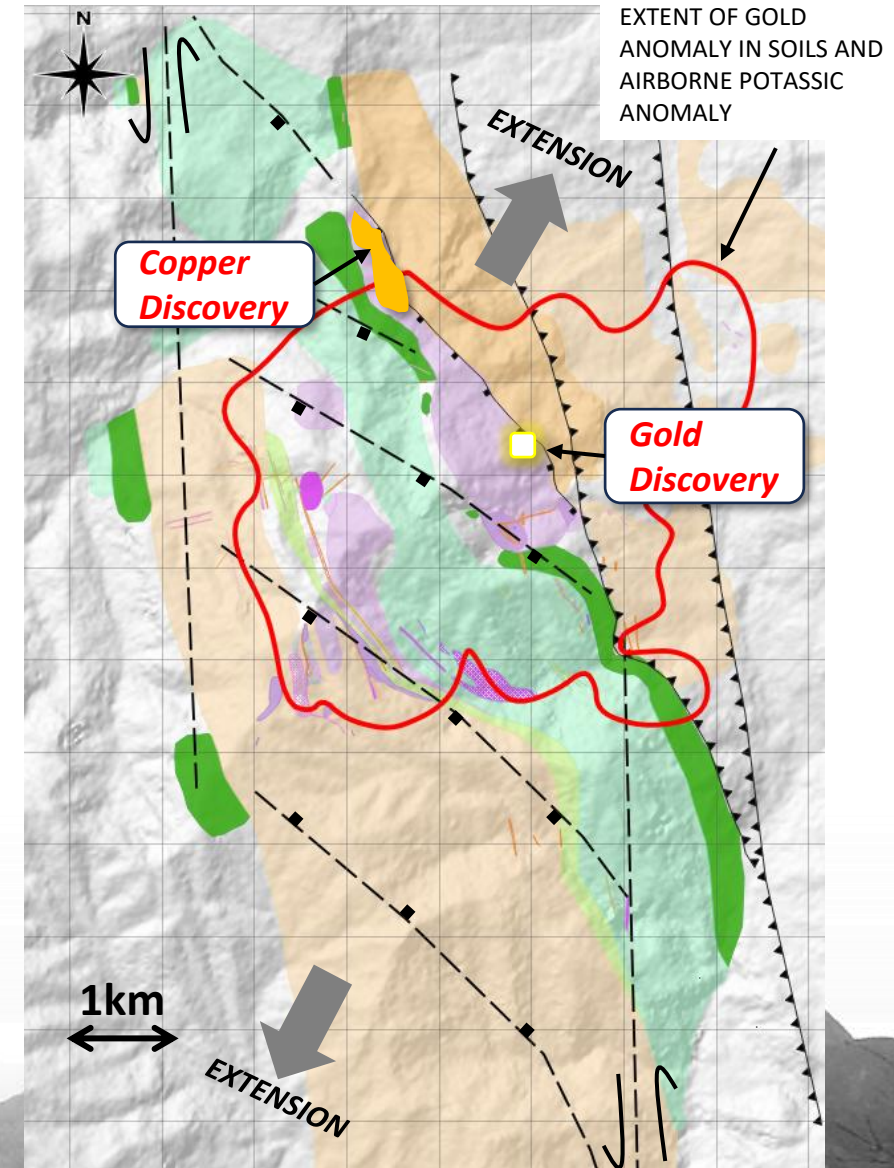# Previsto: Transtensional Structure & Hydrothermal system

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.
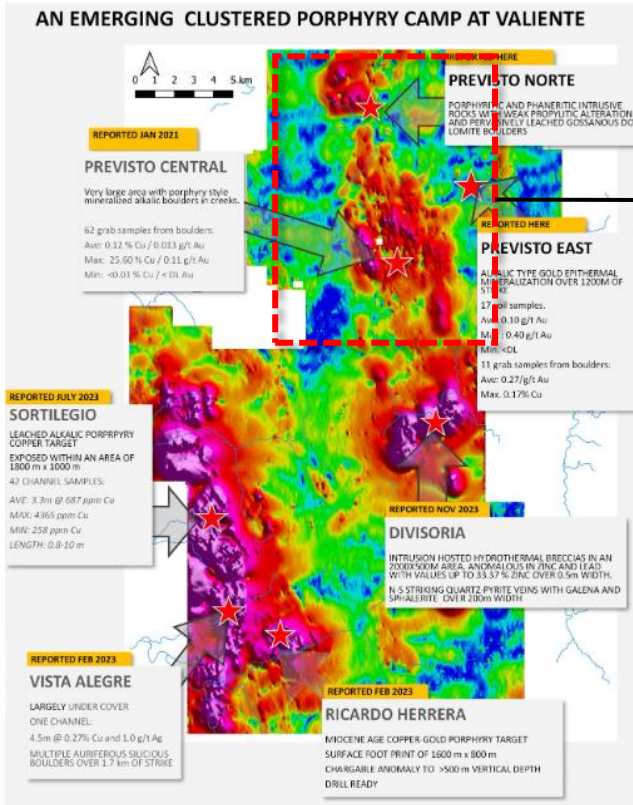- Characterized by pervasive illite alteration and K-feldspar megacrysts and adularia alteration

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

EXTENT OF GOLD ANOMALY IN SOILS AND AIRBORNE POTASSIC ANOMALY

EXTENSION

Copper Discovery
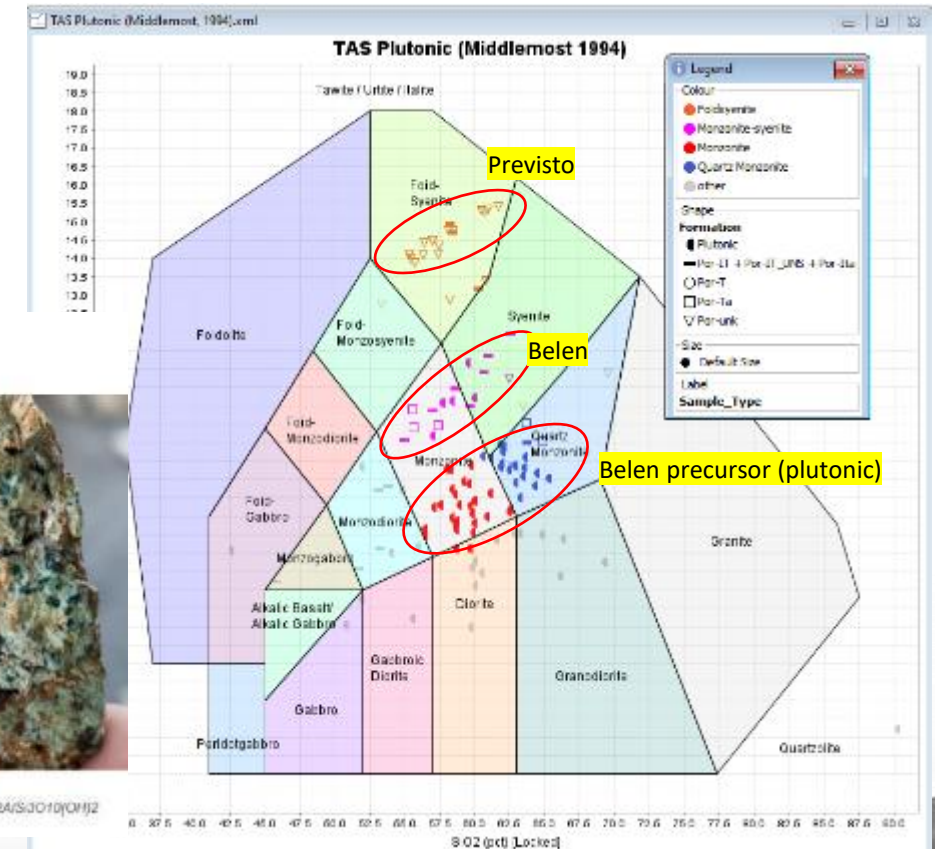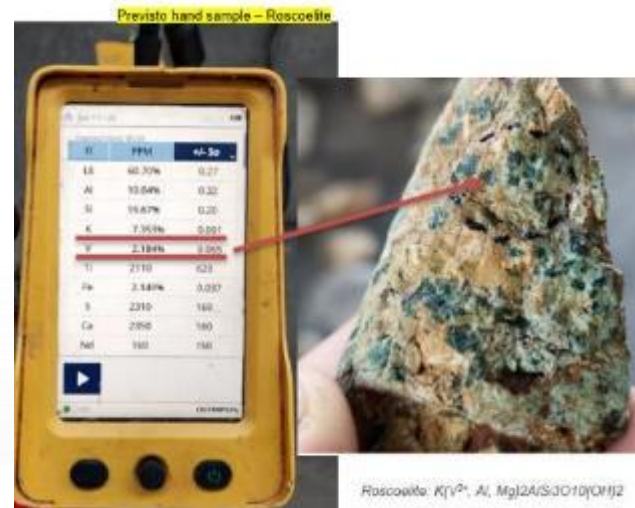
Gold Discovery
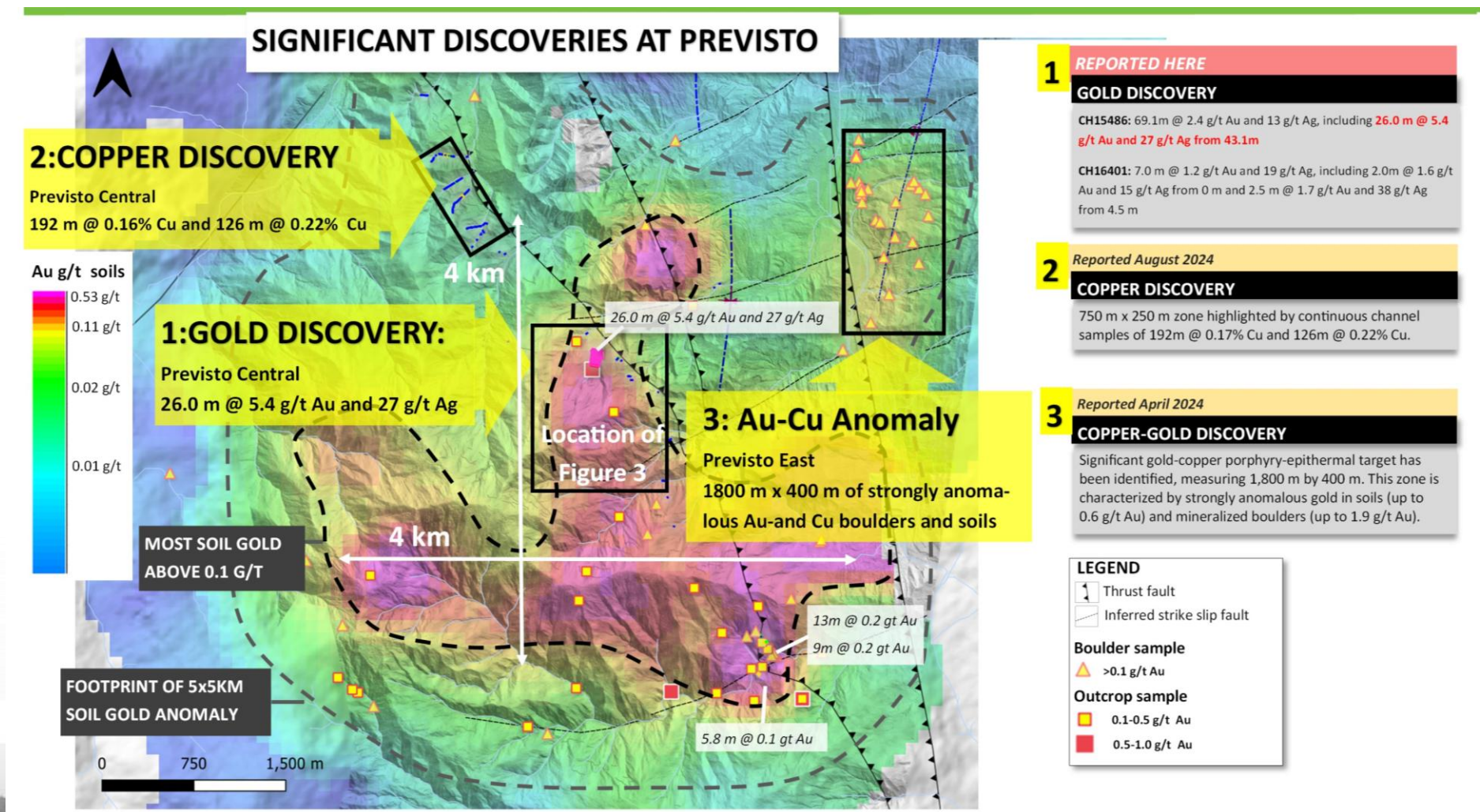
1km

EXTENSION

Valiente – Previsto Target

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

Previsto Significant Discoveries

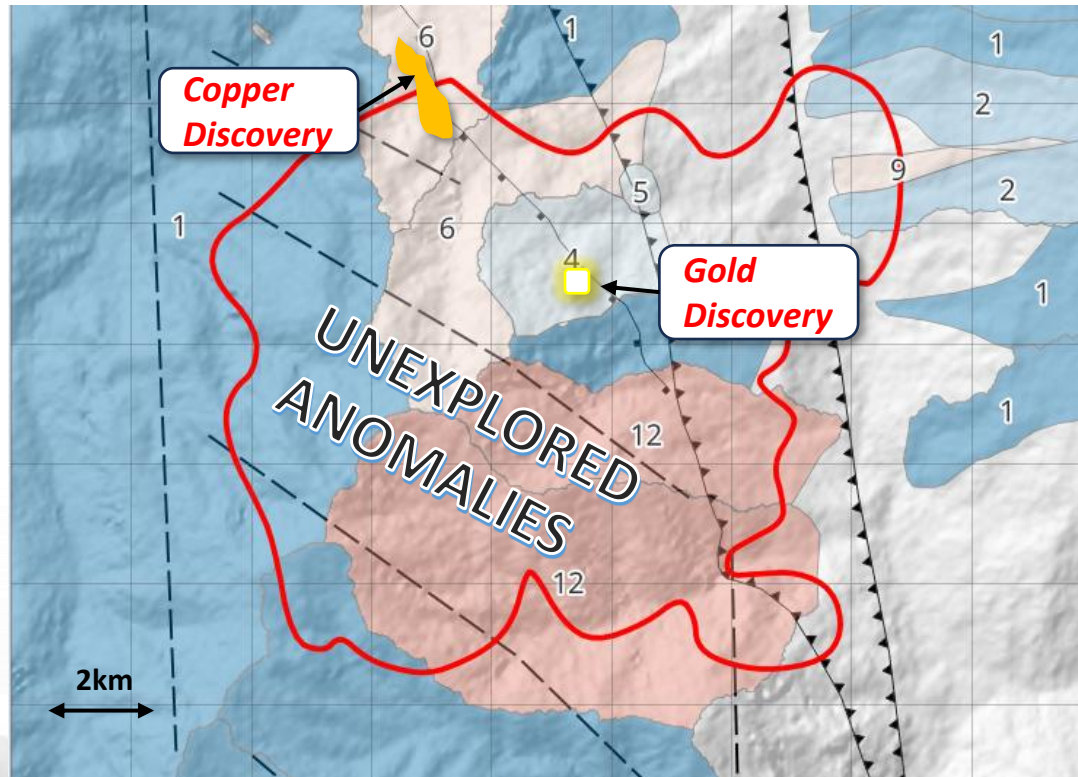Hannan Metals Ltd (TSXV:HAN): Discovery of large mineralizing systems in new frontier areas of Peru

Significant Exploration Upside

BLEG GOLD RESULTS PPB (50g CN)

SOIL GOLD RESULTS g/t (30g FA)

Copper Discovery

Gold Discovery

UNEXPLORED ANOMALIES

2km

Au g/t soils

0.53 g/t
0.11 g/t
0.02 g/t
0.01 g/t
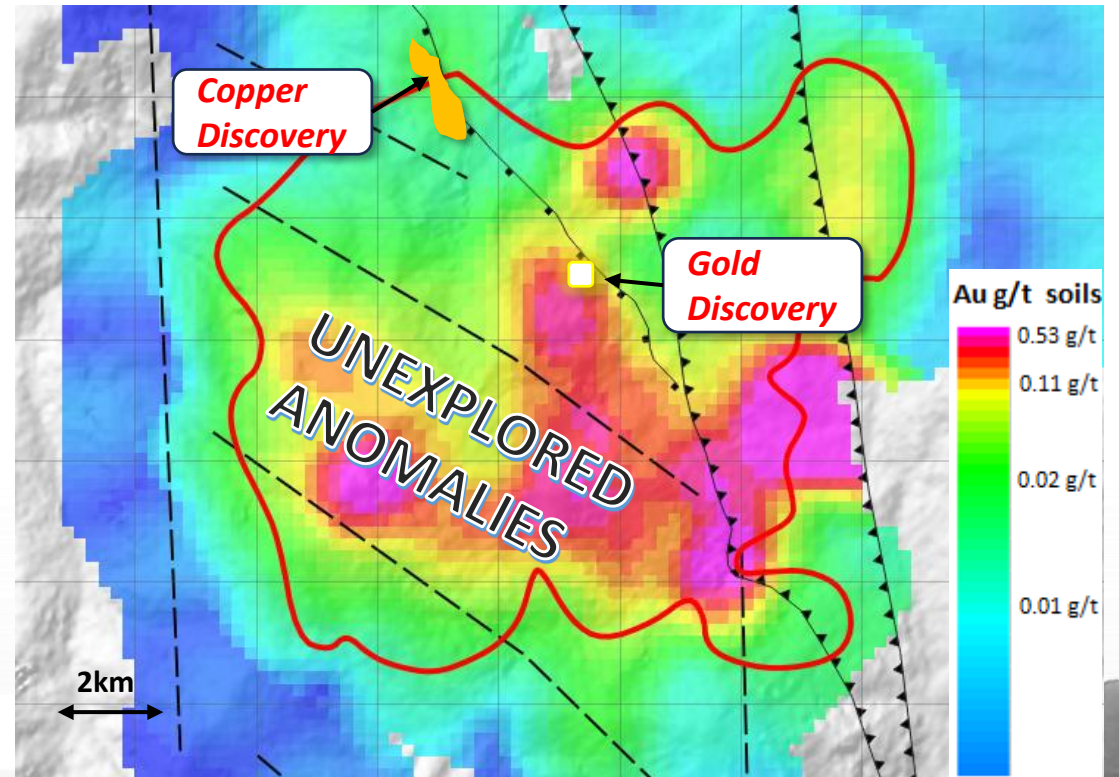
Previsto Soil Geochemistry

MAPPED INTRUSIONS AT PREVISTO

SOIL RGB MAP OVER THE MAPPED AREA

COPPER
GOLD
MOLY

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

Legend:
- KFP Porphyry
- FP Porphyry
- mKFP Porphyry
- FHP Porphyry
- KFP Porphyry Bx
- Microdiorite
- BXH
- mKFPP
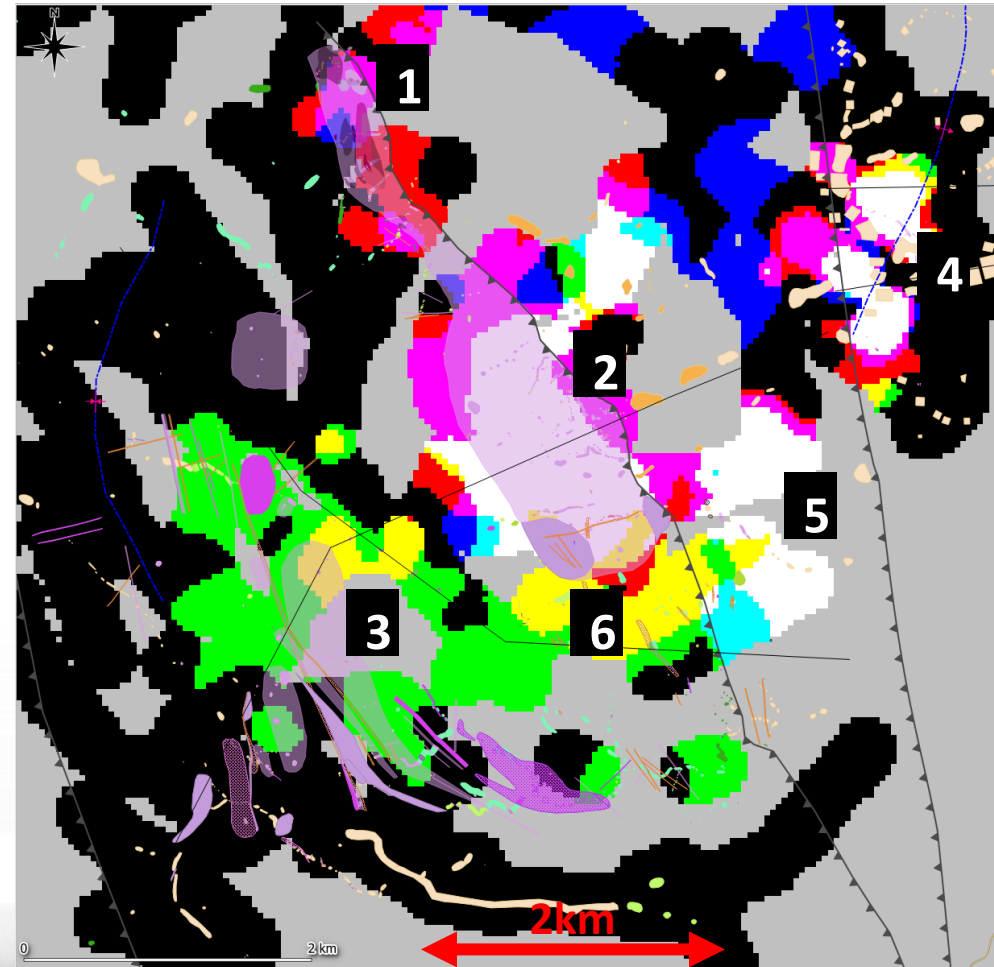
Previsto Results Gold Highlights
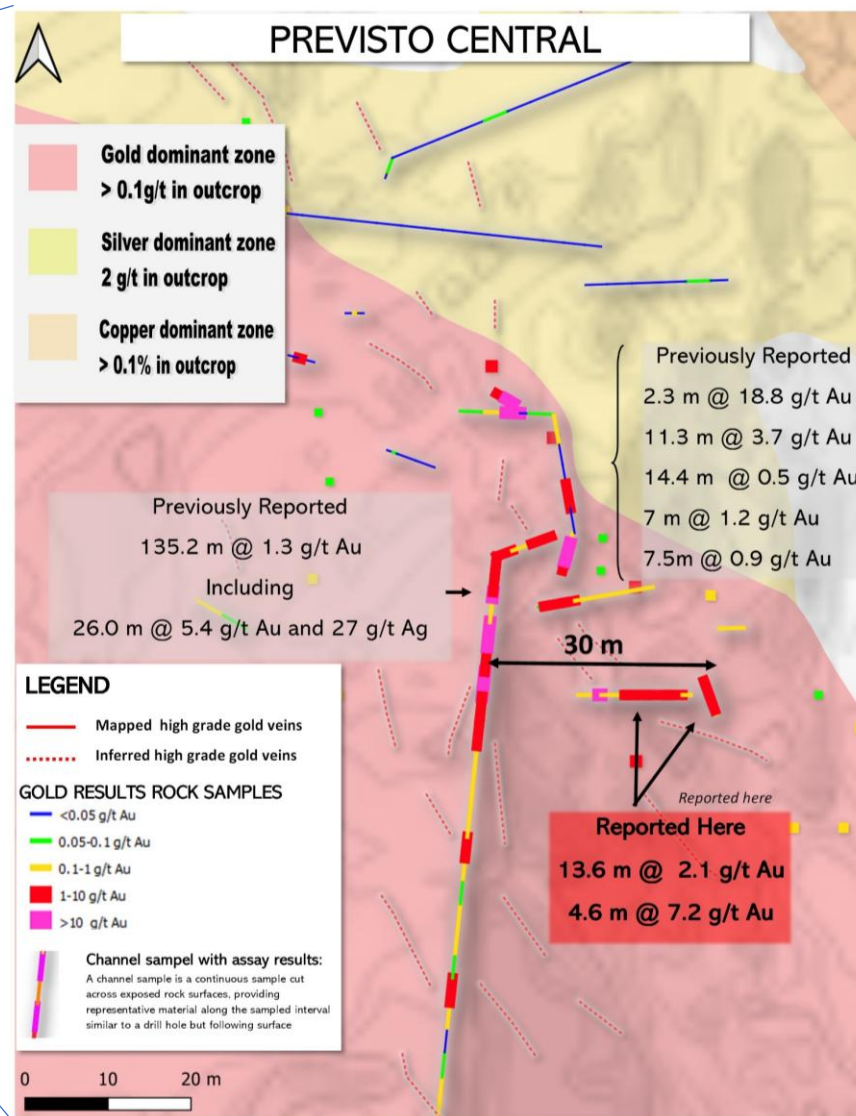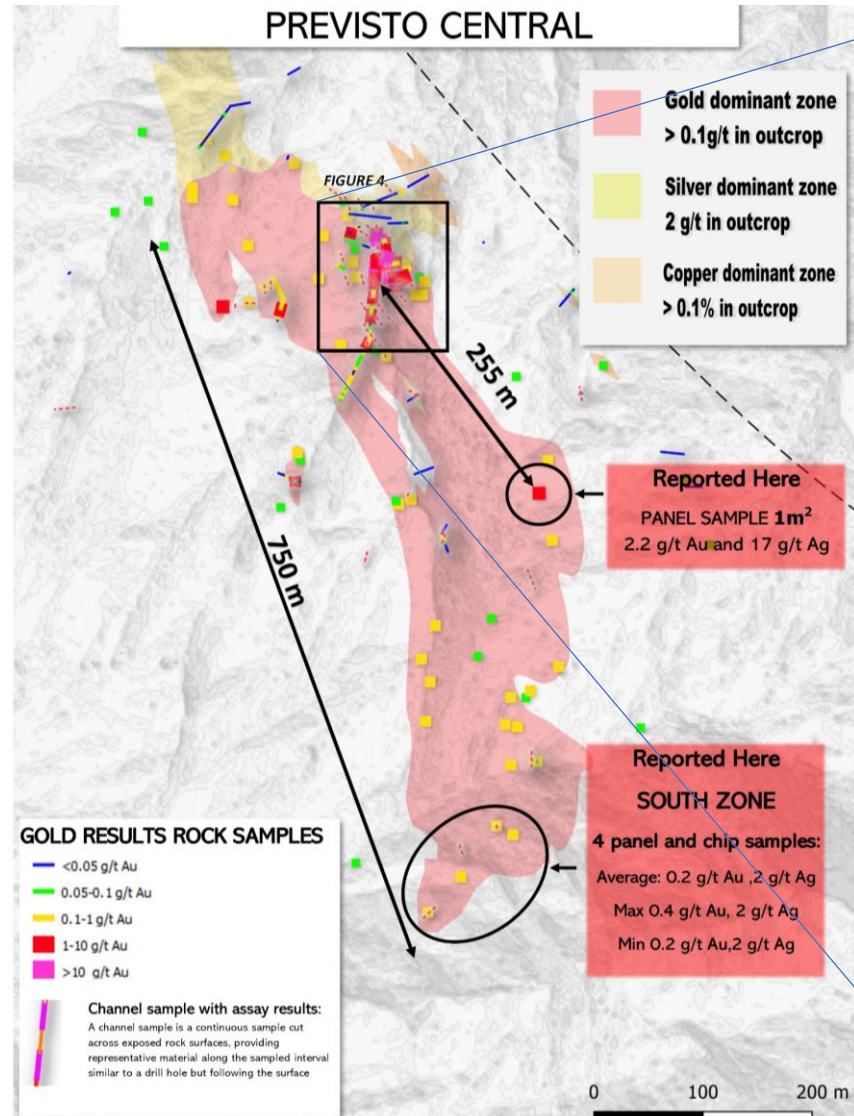
Previsto Results Gold Highlights

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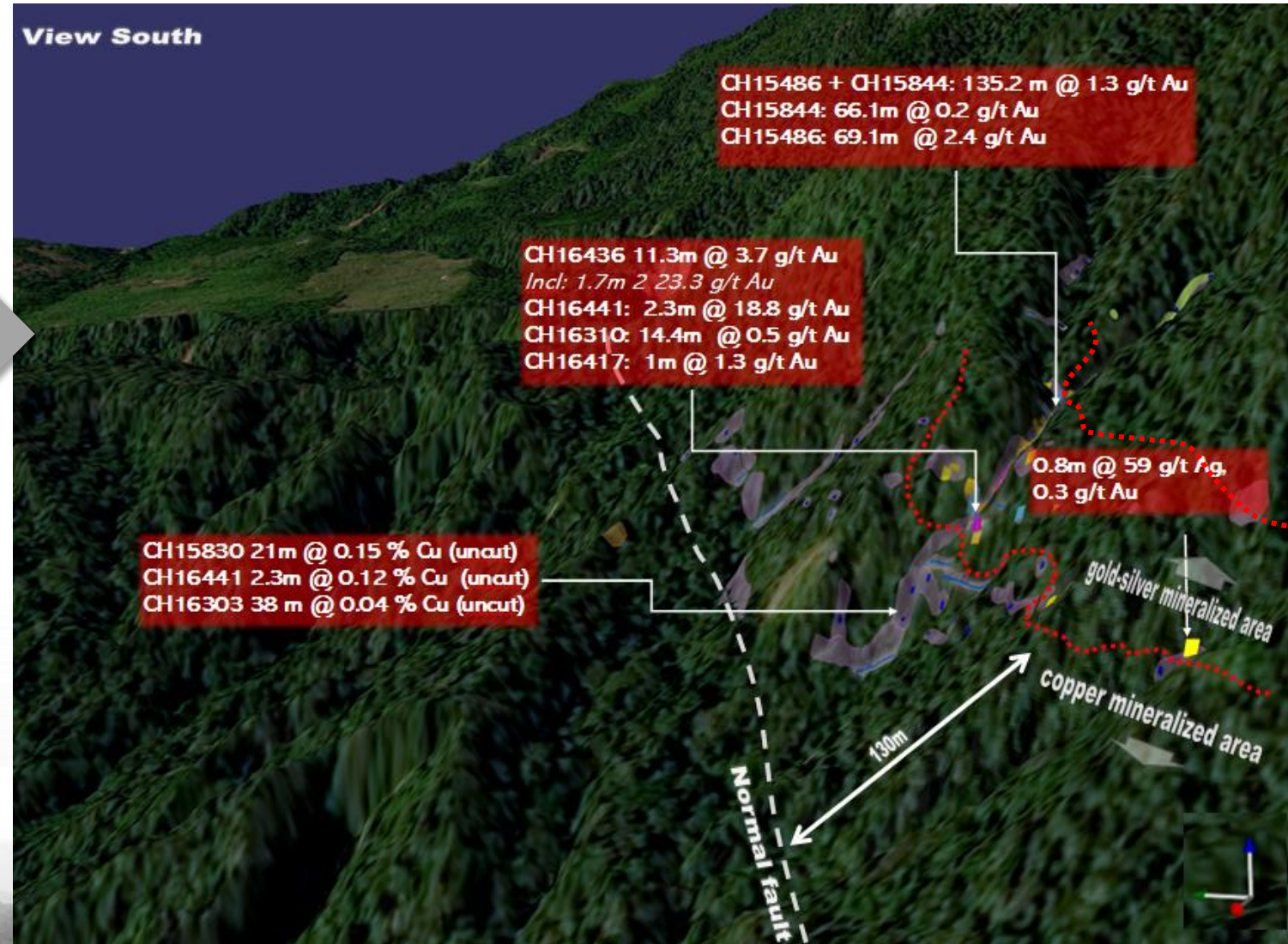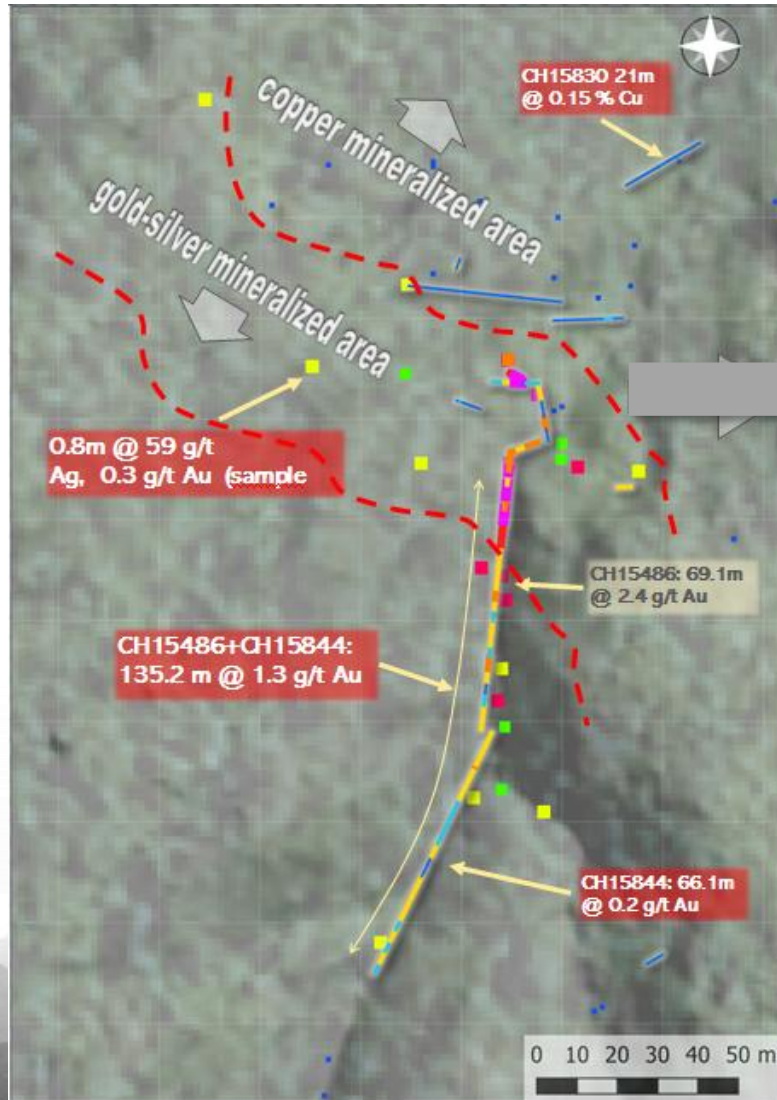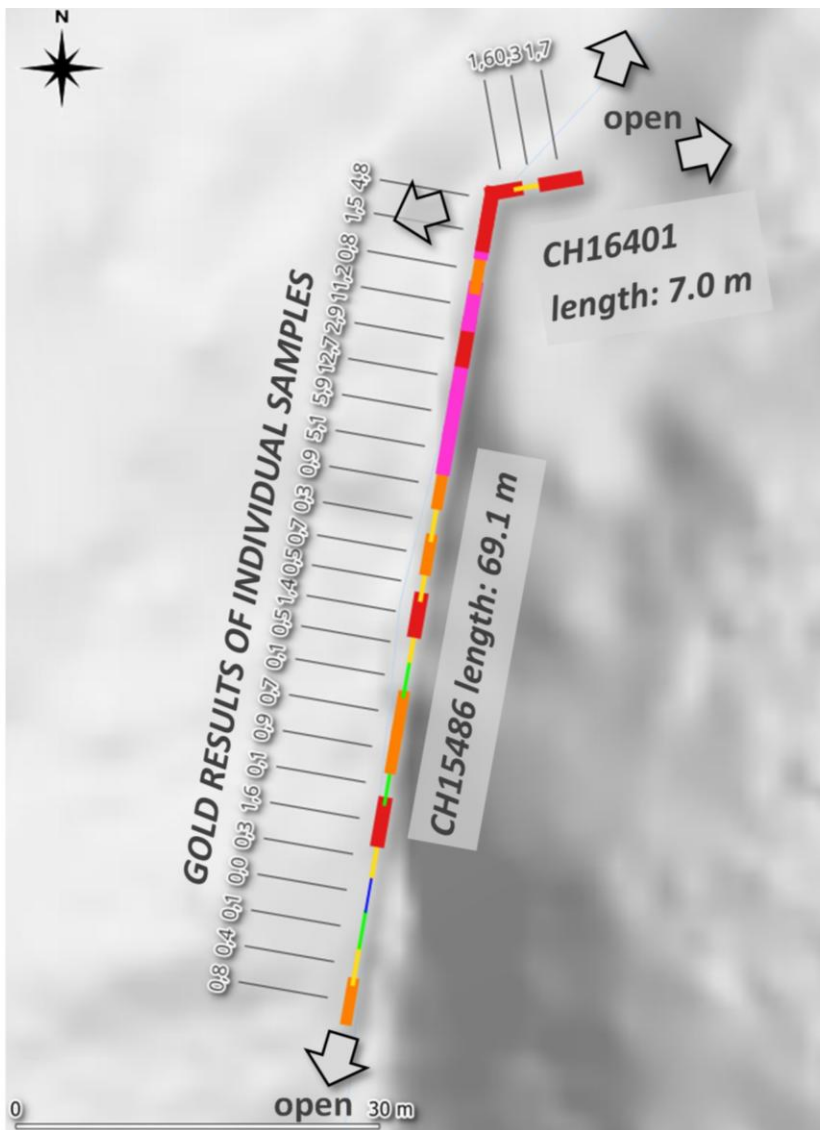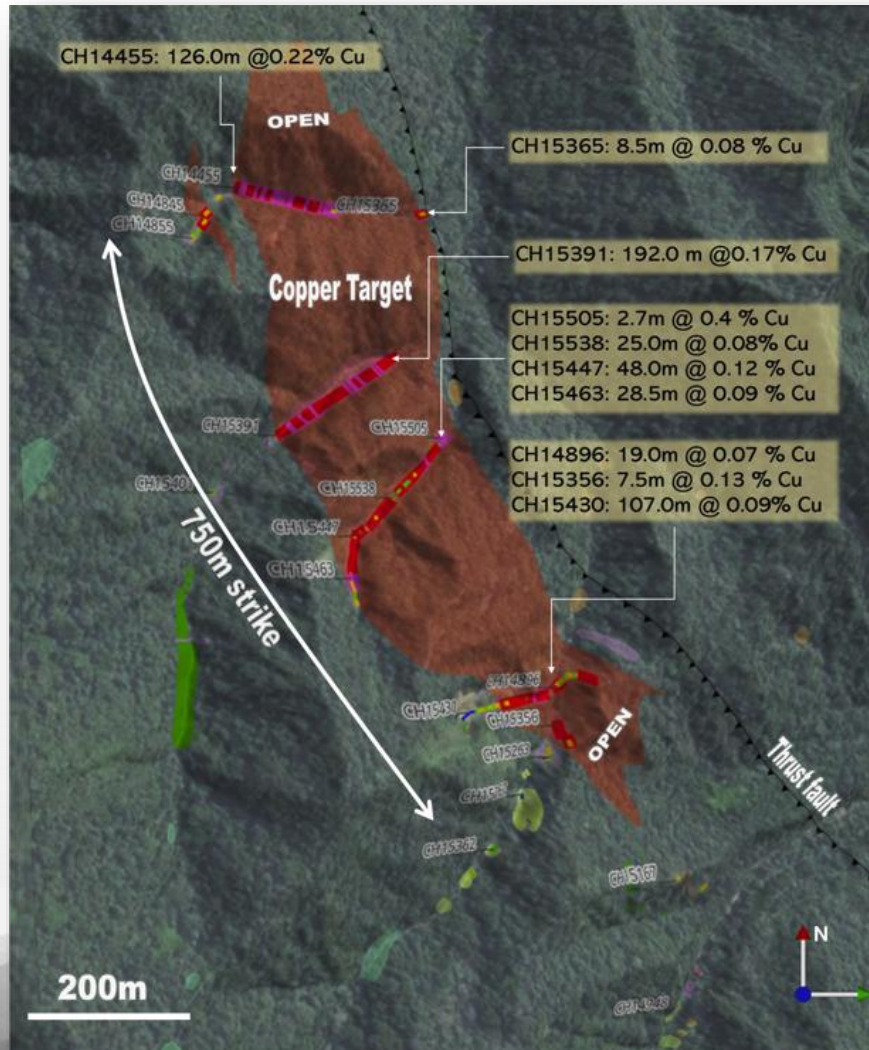   2.5 m @ 1.7 g/t Au and 38 g/t Ag from 4.5m

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

Map annotations:
- CH14455: 126.0m @0.22% Cu — OPEN
- CH15365: 8.5m @ 0.08 % Cu
- CH15391: 192.0 m @0.17% Cu
- CH15505: 2.7m @ 0.4 % Cu
- CH15538: 25.0m @ 0.08% Cu
- CH15447: 48.0m @ 0.12 % Cu
- CH15463: 28.5m @ 0.09 % Cu
- CH14896: 19.0m @ 0.07 % Cu
- CH15356: 7.5m @ 0.13 % Cu
- CH15430: 107.0m @ 0.09% Cu
- Copper Target
- 750m strike
- Thrust fault
- OPEN
- 200m
- N

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.

Gold Related Alteration And Mineralization

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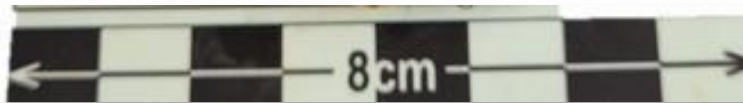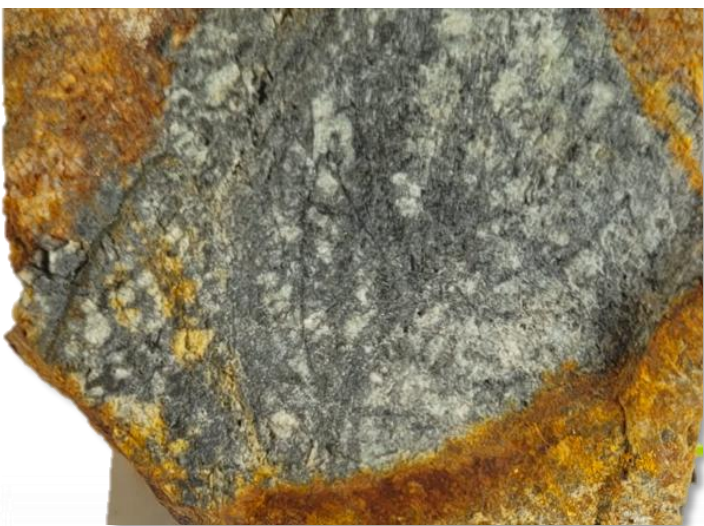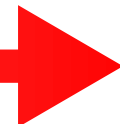
Grey adularia pyrite alteration 3m @ : 0.89g/t Au, 3g/t Ag, 5ppm Te

Granular adularia with manganese oxide after rhodochrosite alteration: 1.3m @ 3.6g/t Au, 27g/t Ag, 5ppm Te
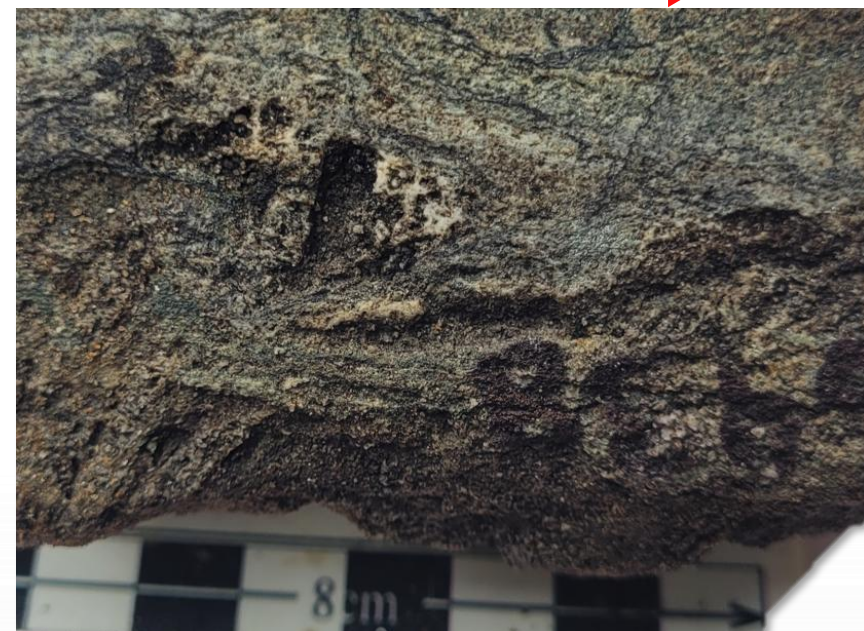
Pervasive roscoelite alteration with adularia: 1.7m @ 23.4g/t Au, 87g/t Ag, 91 ppm Te

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)

9.3km strike

Image © 2025 Maxar Technologies
Image Landsat / Copernicus
Image © 2025 CNES / Airbus
Google Earth

Vista Alegre – Epithermal Gold Target

Epithermal discovery > 2.4 km strike

High chargeability-low resistivity

Multi-million ounce target potential Drill ready

View facing NE

HDDVA001

Cross section Fig. 4-5

500m

1000m

600m

500m

400m

500m

Soil Gold ppm

Plunging shoots

Thrust parallel

Thrust parallel

Inverted chargeability shells > 18ms from 3DIP survey

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
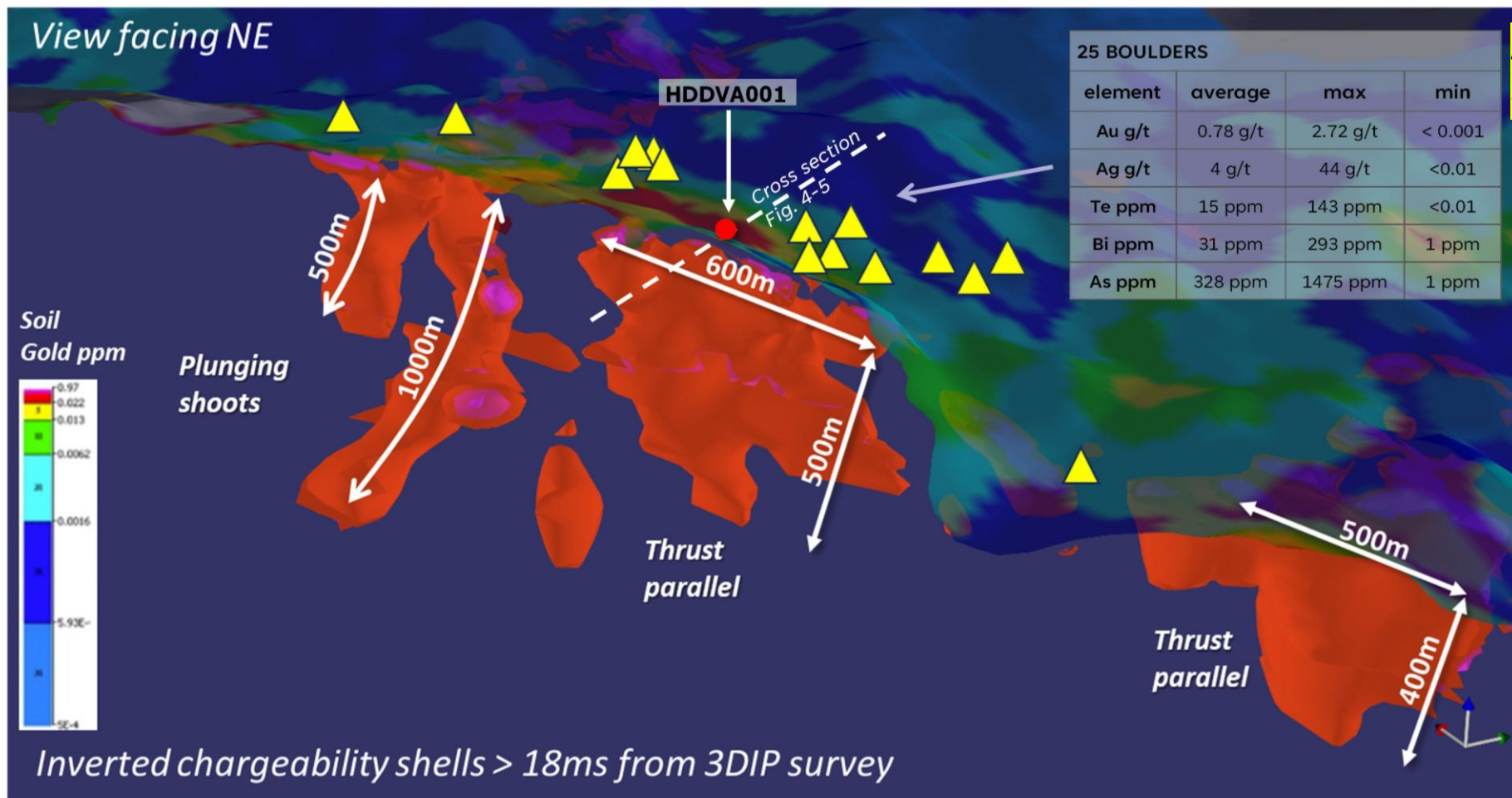
>25 boulders <0.01 – 2.7 ppm Au

Vista Alegre – Epithermal Gold Target

SURFACE GEOLOGY
- Diorite
- Quartz-sandstone
- limestone

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

syncline

Drill pad

1010m RL

HDDVA001

650m RL

Planned drill hole

330m RL

Resistivity (Ωm)

5000 1000 280 140 80 30
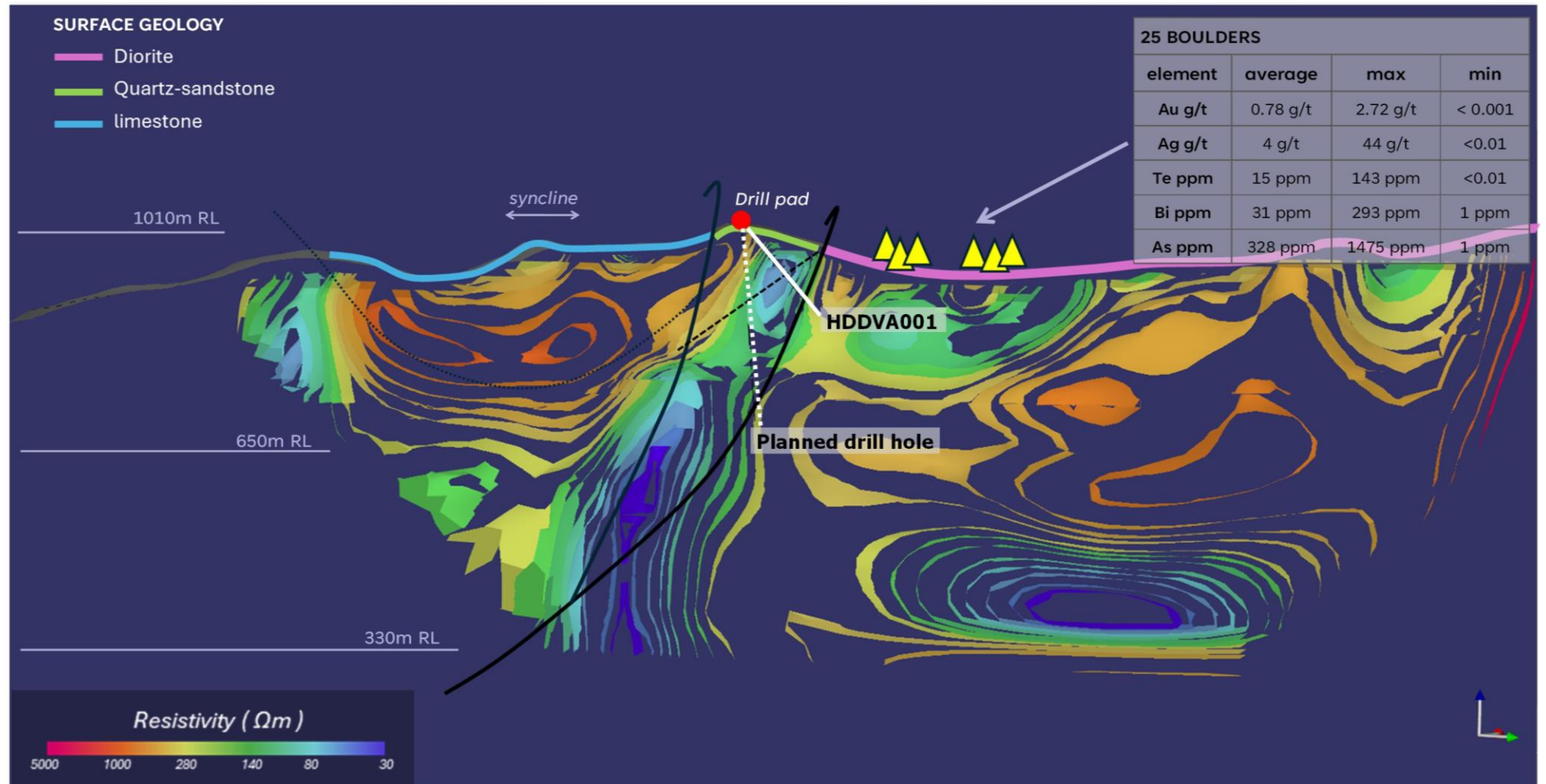
Sortilegio Alkalic Cu-Au - IP Geophysics

LONGSECTION ACROSS THE 3D IP SURVEY AREA AT SORTILEGIO
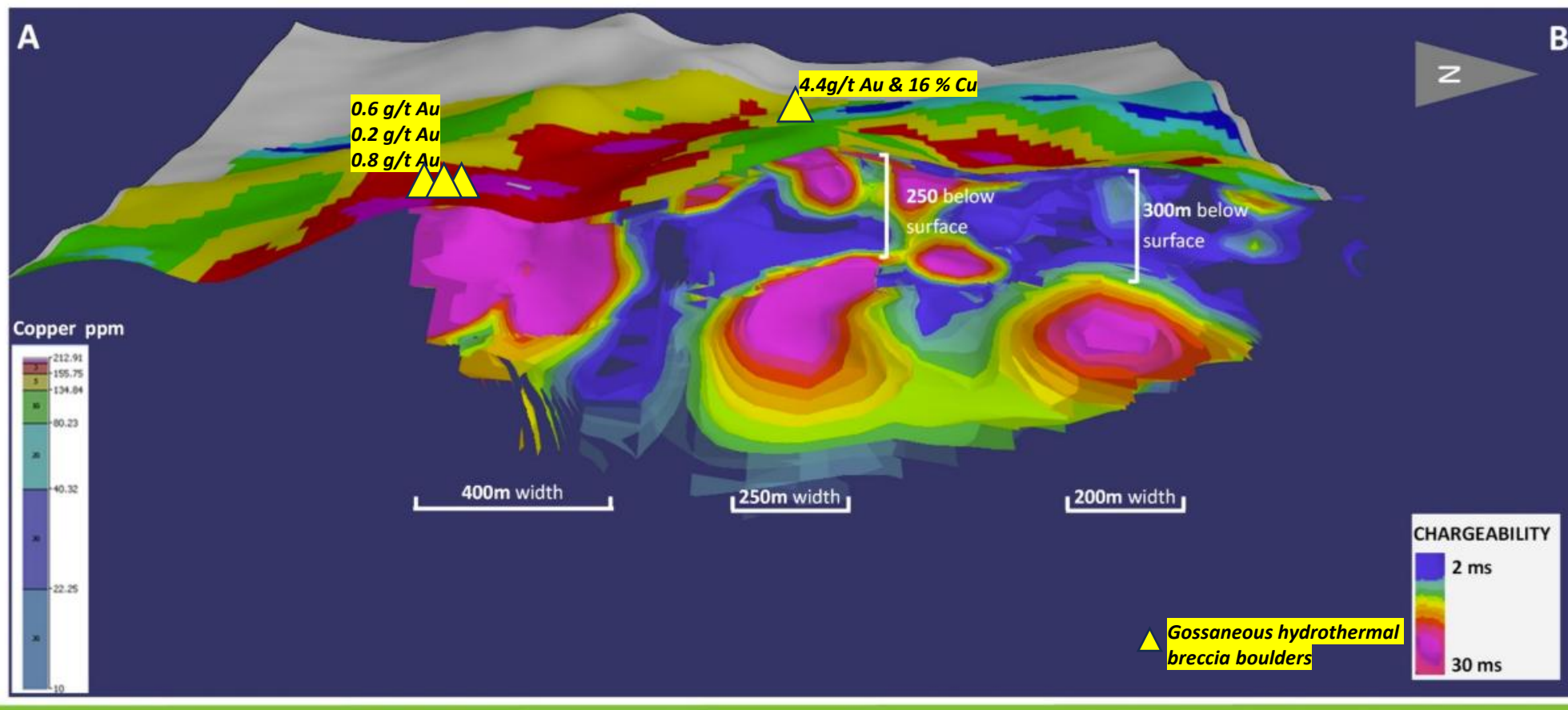
SORTILEGIO

✓ 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
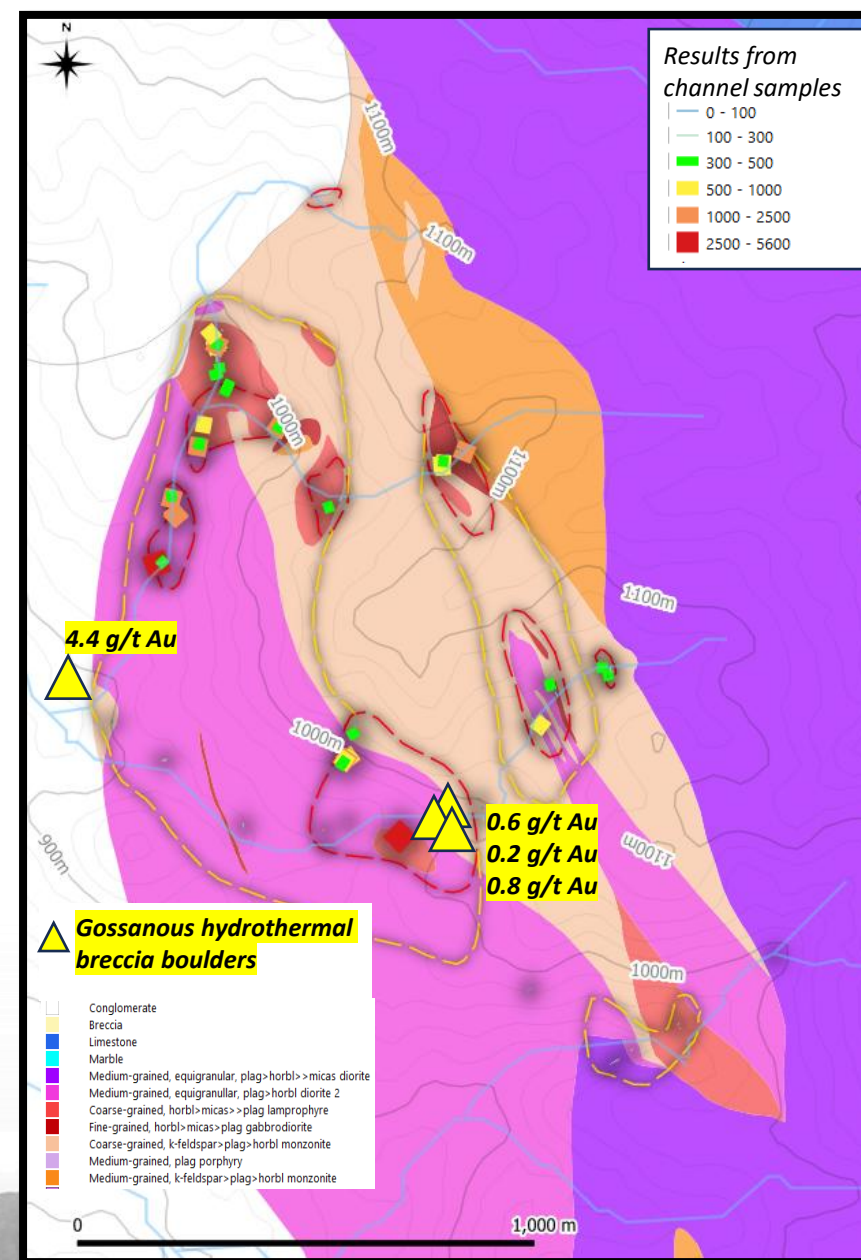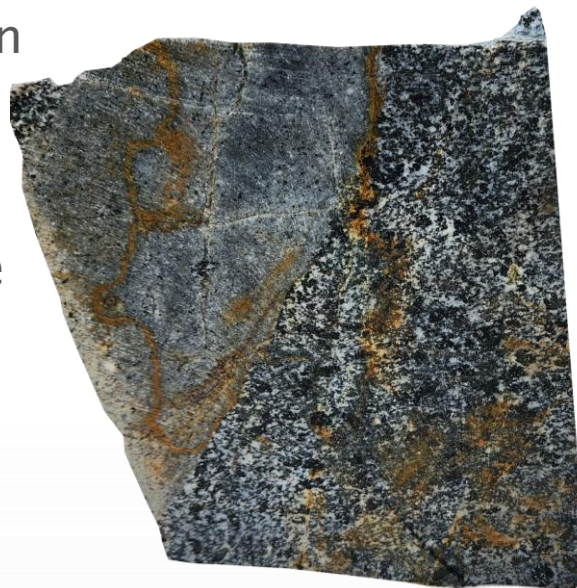

Results from channel samples
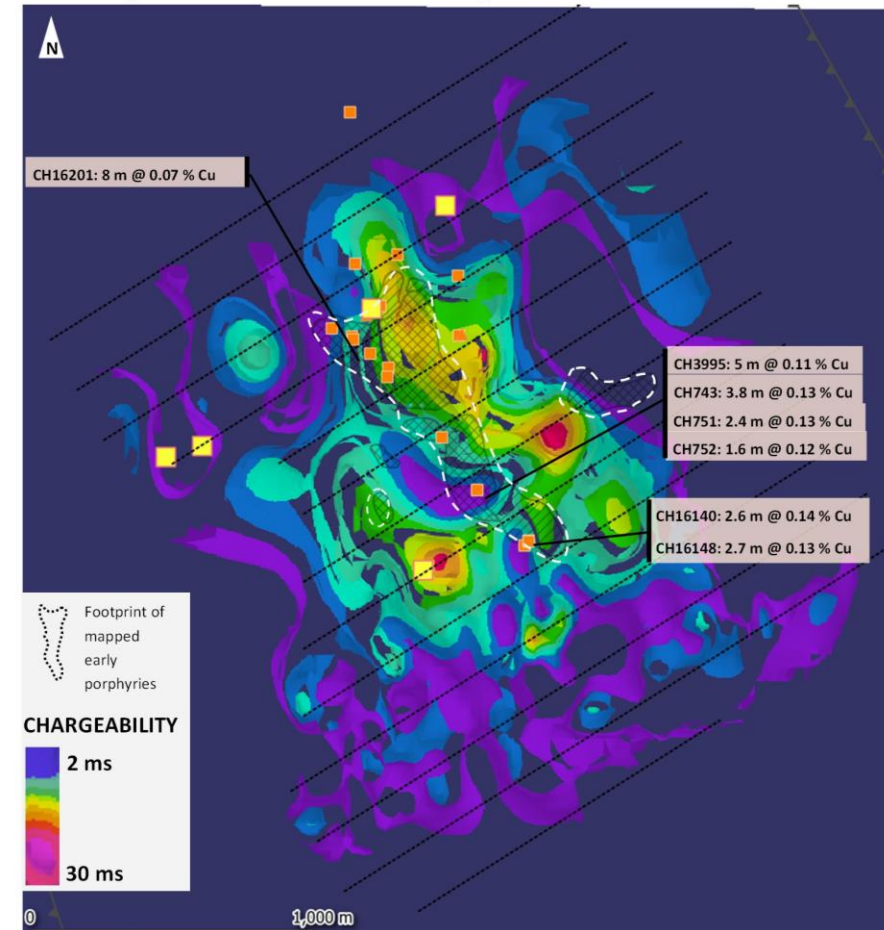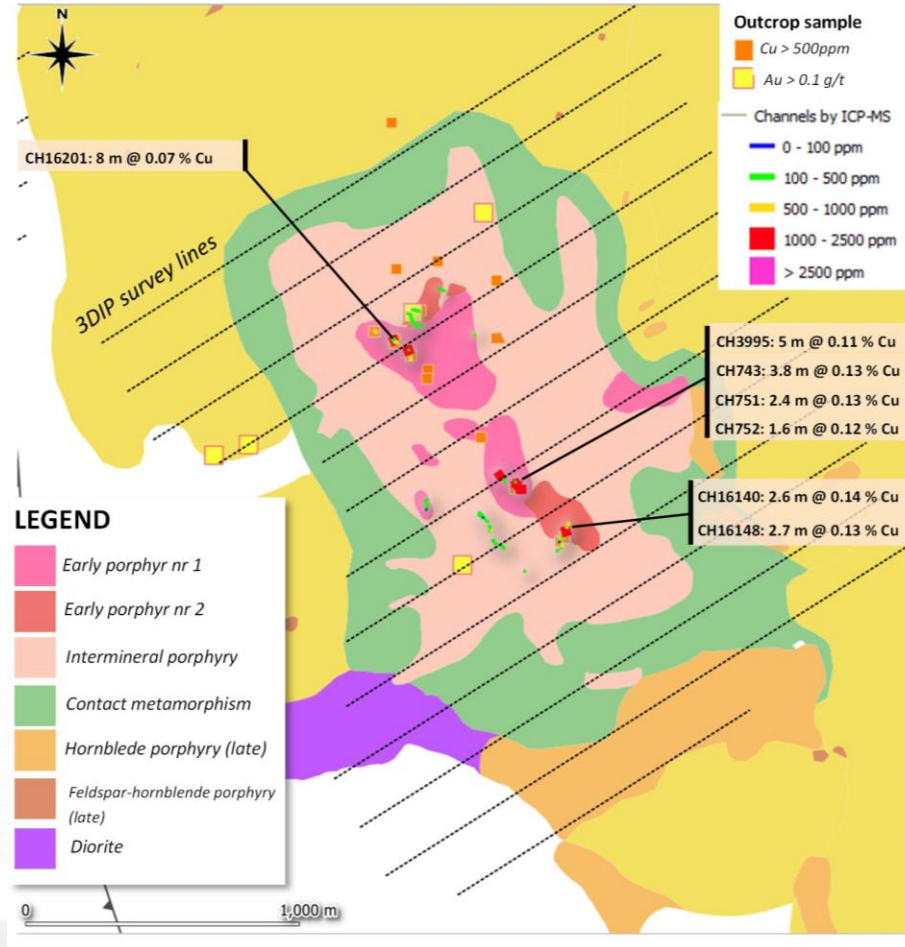
- 0 - 100
- 100 - 300
- 300 - 500
- 500 - 1000
- 1000 - 2500
- 2500 - 5600

4.4 g/t Au

0.6 g/t Au
0.2 g/t Au
0.8 g/t Au

⚠ *Gossanous hydrothermal breccia boulders*

- Conglomerate
- Breccia
- Limestone
- Marble
- Medium-grained, equigranular, plag>horbl>>micas diorite
- Medium-grained, equigranullar, plag>horbl diorite 2
- Coarse-grained, horbl>micas>>plag lamprophyre
- Fine-grained, horbl>micas>plag gabbrodiorite
- Coarse-grained, k-feldspar>plag>horbl monzonite
- Medium-grained, plag porphyry
- Medium-grained, k-feldspar>plag>horbl monzonite

0   1,000 m

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

Contact

HANNAN METALS LTD
INVESTOR RELATIONS (CANADA)

Mariana Bermudez
- Corporate Secretary
Tel: +1 (604) 685 9316
Fax: +1 (604) 683 1585
info@hannanmetals.com

Appendices

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.

Gera

Tabalosos East
High grade copper silver mineralization across 9 km strike

121 channels average:

2.05% Cu and 30g/t Ag over 0.9m width (0.5% lower copper cut-off).

Soritor

Target reduced shale and sandstone hosted copper silver mineralization. Covering 7,500 ha and 20 km of prospective strike.

Tabalosos

The Tabalosos target covers 25,000ha over 30 km of strike length over multiple parallel trends.

Mineralization mapped on surface over 9km and inferred >20km.

Sacanche

Reduced sandstone target showing strong structural control due interaction between structural and stratigraphical traps

Extensive zones of base metal gossans extending over >10km's and high grade copper mineralization in sandstone boulders mapped during early reconnaissance work.

Hannan Mining Licence

50 km

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
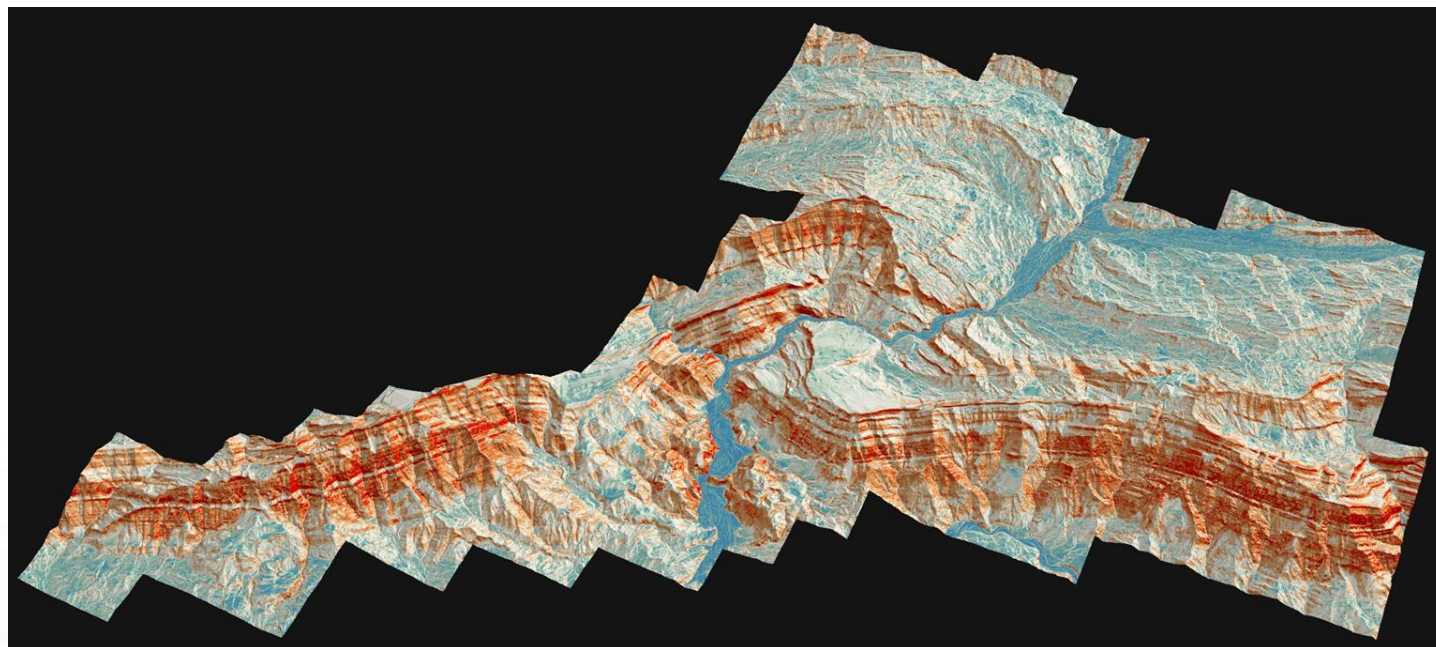
Peru – San Martin Cu-Ag Project

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
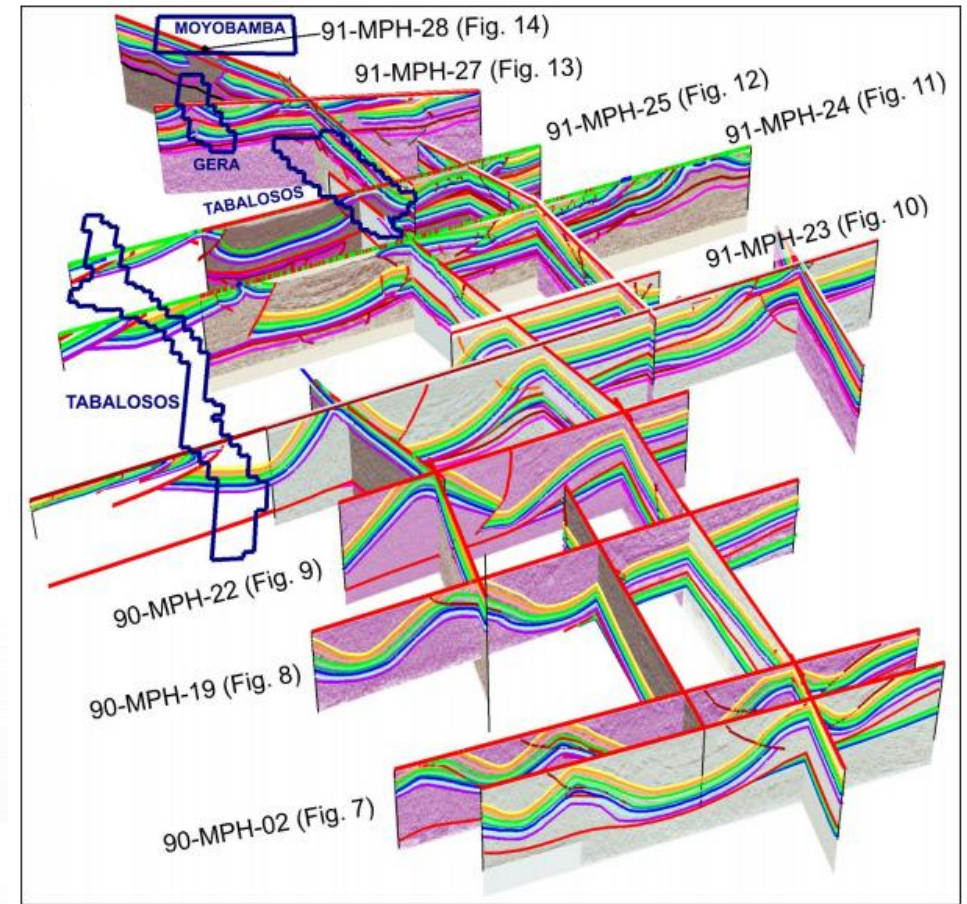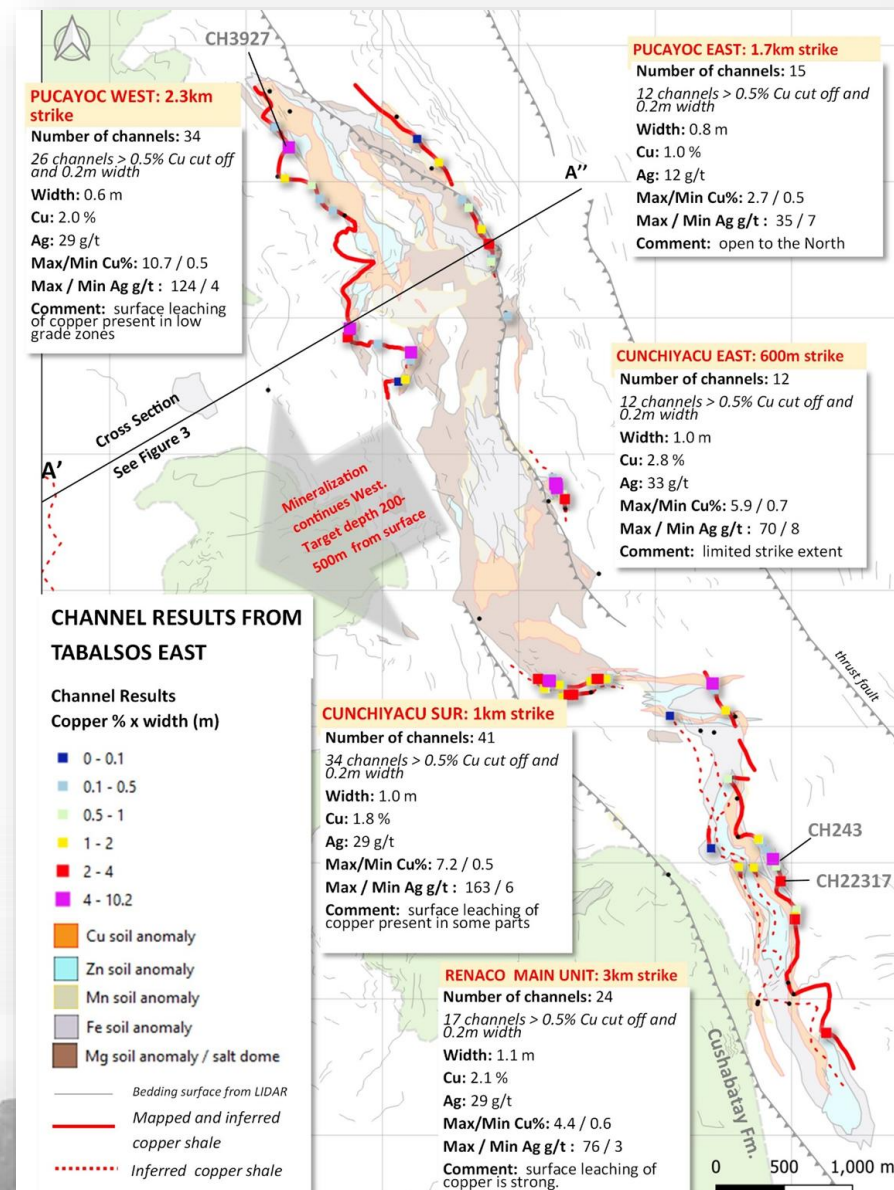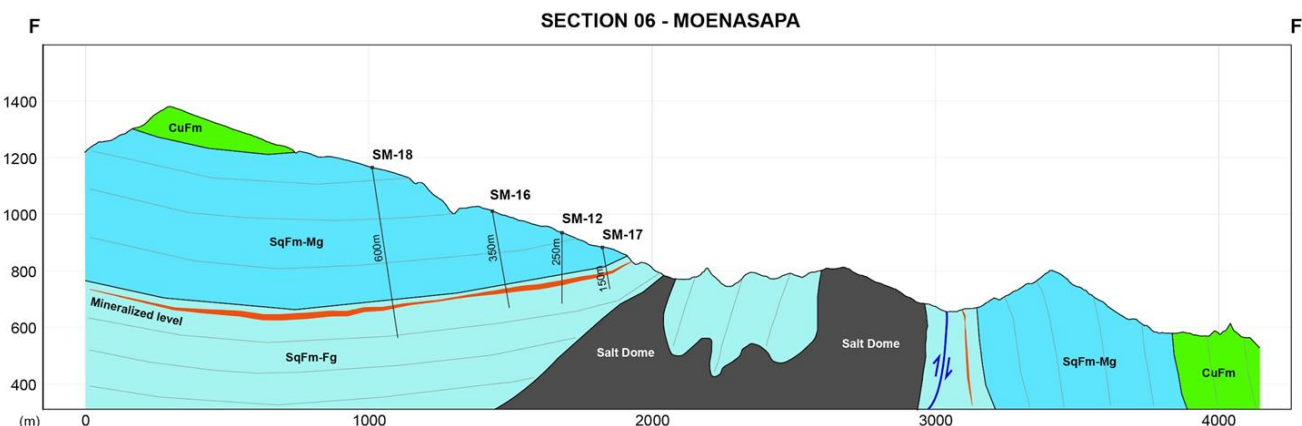

SECTION 06 - MOENASAPA

PUCAYOC WEST: 2.3km strike
Number of channels: 34
26 channels > 0.5% Cu cut off and 0.2m width
Width: 0.6 m
Cu: 2.0 %
Ag: 29 g/t
Max/Min Cu%: 10.7 / 0.5
Max / Min Ag g/t : 124 / 4
Comment: surface leaching of copper present in low grade zones

PUCAYOC EAST: 1.7km strike
Number of channels: 15
12 channels > 0.5% Cu cut off and 0.2m width
Width: 0.8 m
Cu: 1.0 %
Ag: 12 g/t
Max/Min Cu%: 2.7 / 0.5
Max / Min Ag g/t : 35 / 7
Comment: open to the North

CUNCHIYACU EAST: 600m strike
Number of channels: 12
12 channels > 0.5% Cu cut off and 0.2m width
Width: 1.0 m
Cu: 2.8 %
Ag: 33 g/t
Max/Min Cu%: 5.9 / 0.7
Max / Min Ag g/t : 70 / 8
Comment: limited strike extent

CUNCHIYACU SUR: 1km strike
Number of channels: 41
34 channels > 0.5% Cu cut off and 0.2m width
Width: 1.0 m
Cu: 1.8 %
Ag: 29 g/t
Max/Min Cu%: 7.2 / 0.5
Max / Min Ag g/t : 163 / 6
Comment: surface leaching of copper present in some parts

RENACO MAIN UNIT: 3km strike
Number of channels: 24
17 channels > 0.5% Cu cut off and 0.2m width
Width: 1.1 m
Cu: 2.1 %
Ag: 29 g/t
Max/Min Cu%: 4.4 / 0.6
Max / Min Ag g/t : 76 / 3
Comment: surface leaching of copper is strong.

CHANNEL RESULTS FROM TABALSOS EAST

Channel Results
Copper % x width (m)

- 0 - 0.1
- 0.1 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 4
- 4 - 10.2

- Cu soil anomaly
- Zn soil anomaly
- Mn soil anomaly
- Fe soil anomaly
- Mg soil anomaly / salt dome

— Bedding surface from LIDAR
— Mapped and inferred copper shale
···· Inferred copper shale

Mineralization continues West. Target depth 200-500m from surface

35

Peru – San Martin

Planned Drill Program

Hannan Metals Ltd (TSXV:HAN): Discovery of large mineralizing systems in new frontier areas of Peru