

HANNAN METALS

Discovery of large copper and gold mineralizing systems in new frontiers

19 FEB 2024



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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 ripe for giant discoveries
 - 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



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

- ✓ Momentum – first drill permits
- ✓ Drilling in Peru and Chile Q2 2025. Anticipating a pipeline of drill ready porphyry- epithermal targets over the next five years



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

- ✓ JOGMEC (JV) and TECK (9.9% equity) partnerships

Cerro Rolando (Chile) a large, blind geophysical porphyry target, drill ready

Capital Structure

INSIDERS: 14%

SHARES ON ISSUE: 120.7m

FULLY DILUTED: 139.2m

MARKET CAP: C\$121.7m

CASH: C\$2.6m (NOV 30, 2024)

WARRANTS: 8.7m (\$0.35 May 26)

OPTIONS 9.8m (\$0.50 June 26)

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	Price	No. of Securities	
Stock Options			
Expiring December 28, 2025	\$0.28	3,300,000	
Expiring March 1, 2026	\$0.28	150,000	
Expiring August 22, 2028	\$0.25	4,263,500	
Expiring September 6, 2029	\$0.60	2,036,700	9,750,200
Warrants			
Expiring May 9, 2026	\$0.35	3,422,230	
Expiring June 27, 2026	\$0.50	5,296,753	8,718,983



Peru: Targeting giant metal districts

Big company land position

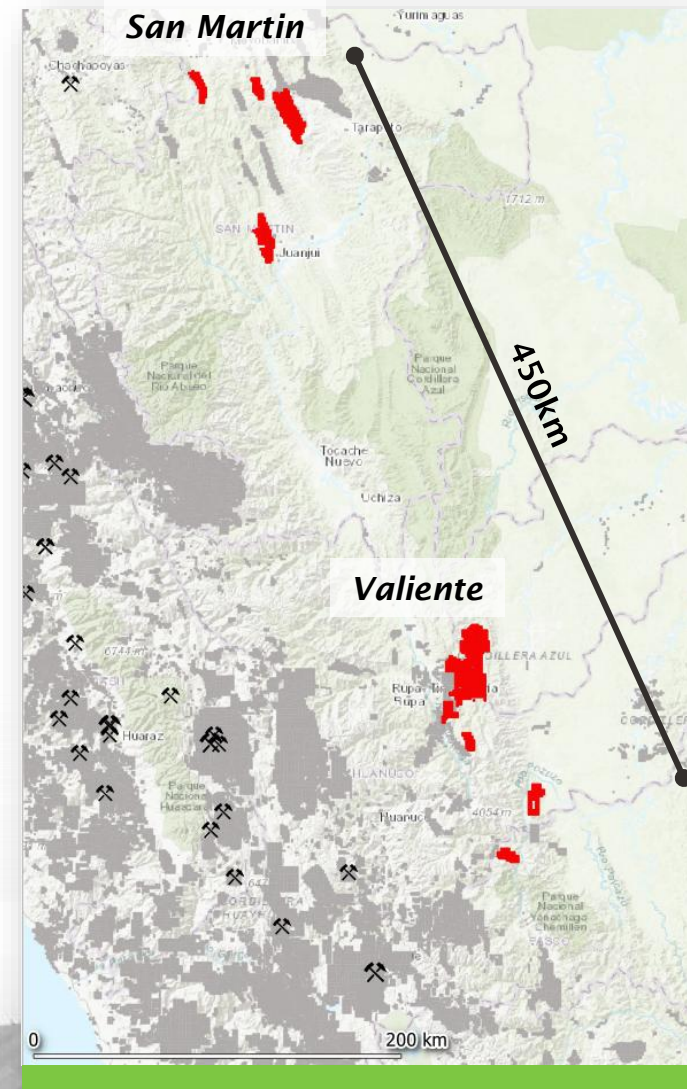
**Hannan Tenure in Peru:
1,605 km²**

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



Investment Highlights

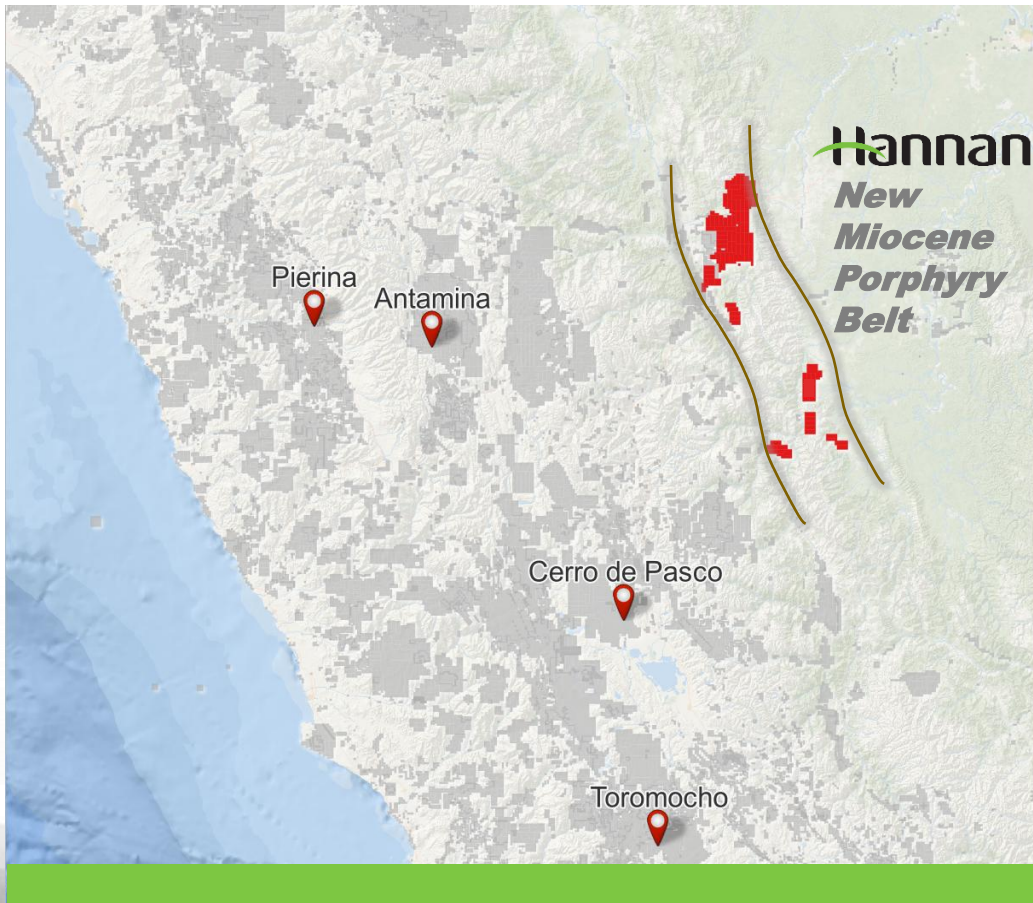
1. First mover and large land position with de-risked drill ready targets
2. Emerging porphyry district with low hanging fruit and potential for giant discoveries
3. Exploration results recognized by strategic investment from Canada's largest mining company and a key joint venture agreement with the Japanese government (JOGMEC) at San Martin, Peru
4. Maiden drill permitting at both Valiente and San Martin projects in Peru.
5. Drilling anticipated in : CHILE Q2 2025/
VALIENTE Q2 2025 / SAN MARTIN Q3 2025





Peru – Valiente: A Giant Opportunity

A unique opportunity 100 % owned by Hannan



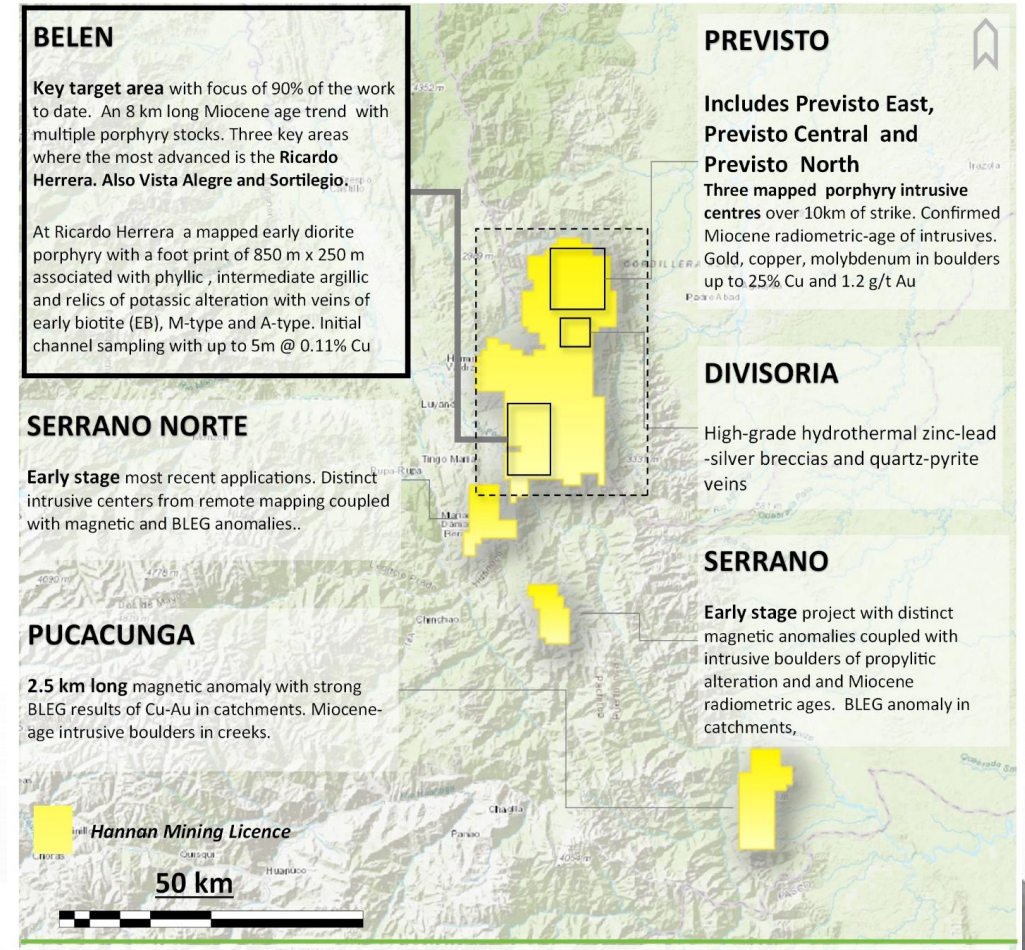
- ✓ The Valiente project is a new a porphyry-epithermal belt discovered by Hannan in 2021 in the central eastern Andes.
- ✓ Cluster of 18 Miocene porphyry intrusions from calc-alkaline to alkaline character across 150 km by 40 km belt
- ✓ Hannan's total tenure 920 sqkm
- ✓ Plan to sequentially derisk, permit and drill multiple porphyry centres over the next 5 years



Peru – Valiente Porphyry Cluster

A giant metal district in pre-discovery stage

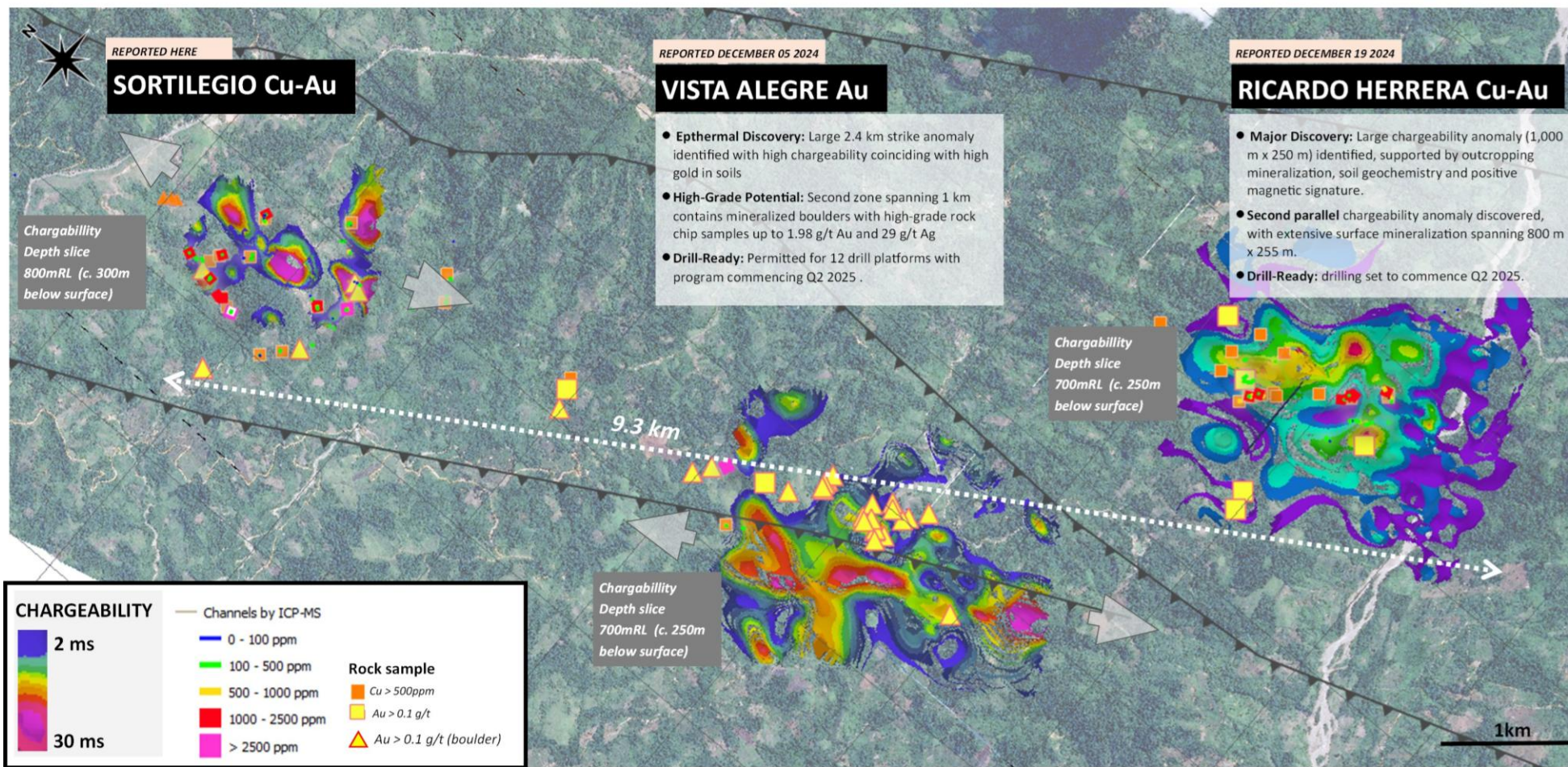
- ✓ Footprint comparable to giant porphyry districts in the Andes
- ✓ Multiple intrusive events peaking at 21Ma, 15Ma and 11Ma (Miocene-age – key timing in Andes)
- ✓ Mineralized porphyry/skarn/epithermal targets identified in at least 18 areas across the whole belt.
- ✓ Pipeline of exploration targets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





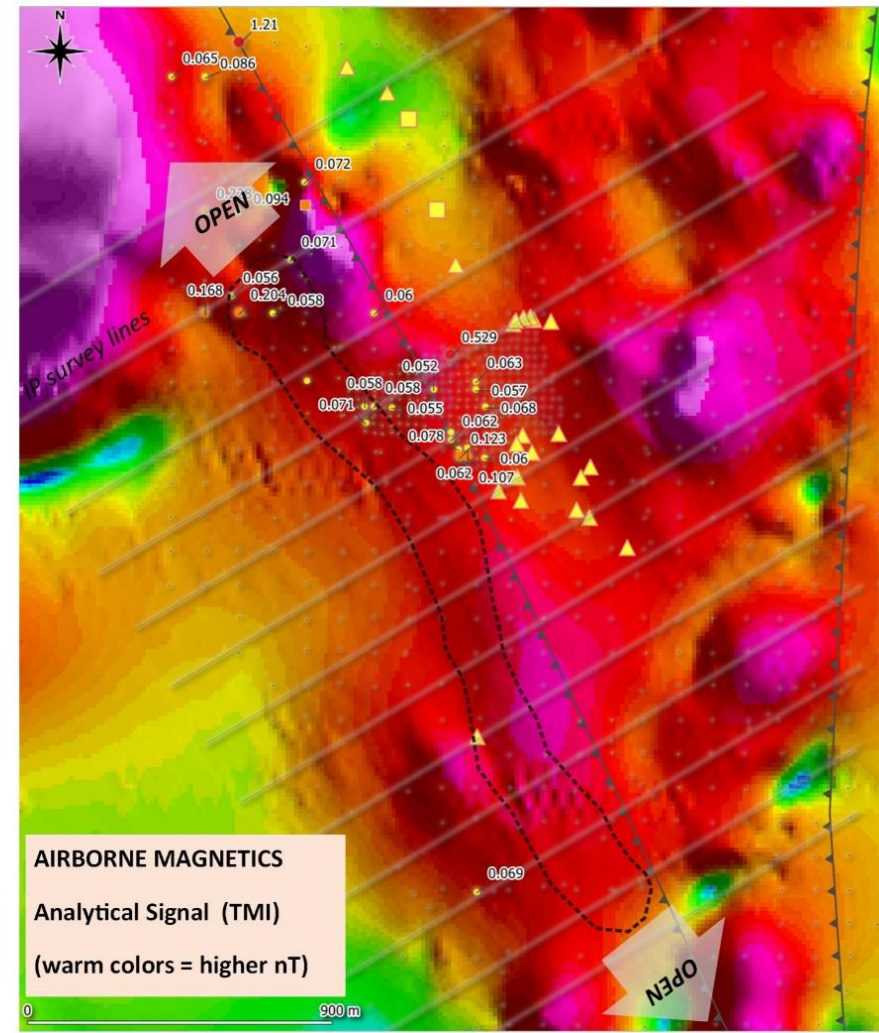
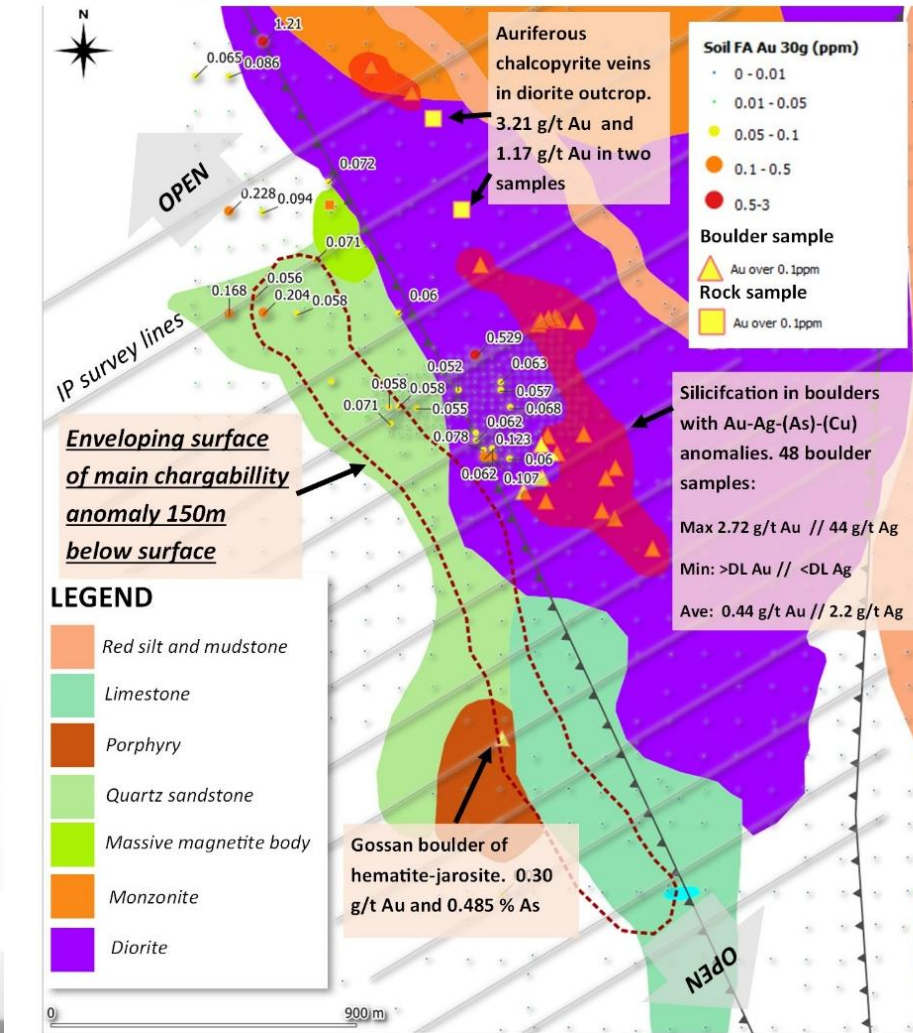
Belen IP Geophysics and Rock Samples Drilling Q2 2025

Overview of Sortilegio (Cu-Au alkalic porphyry), Vista Alegre (Au-Ag epithermal) and Ricardo Herrera (Cu-Au porphyry) targets at Belen, Valiente



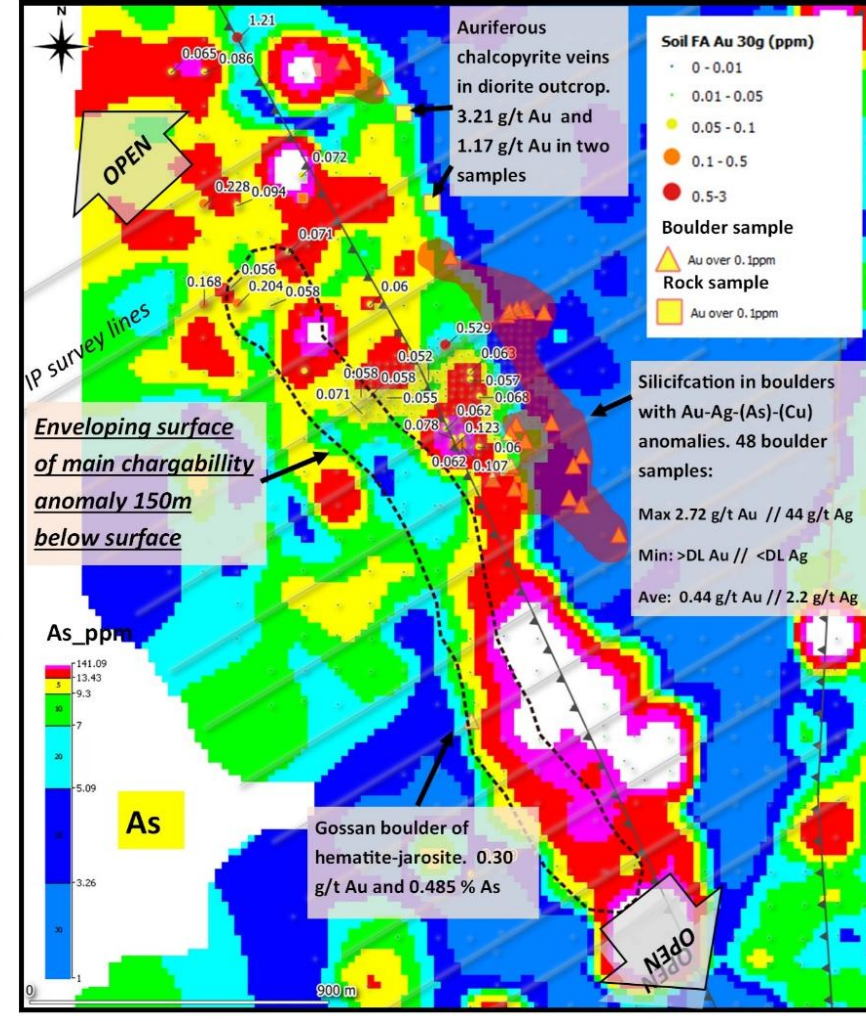
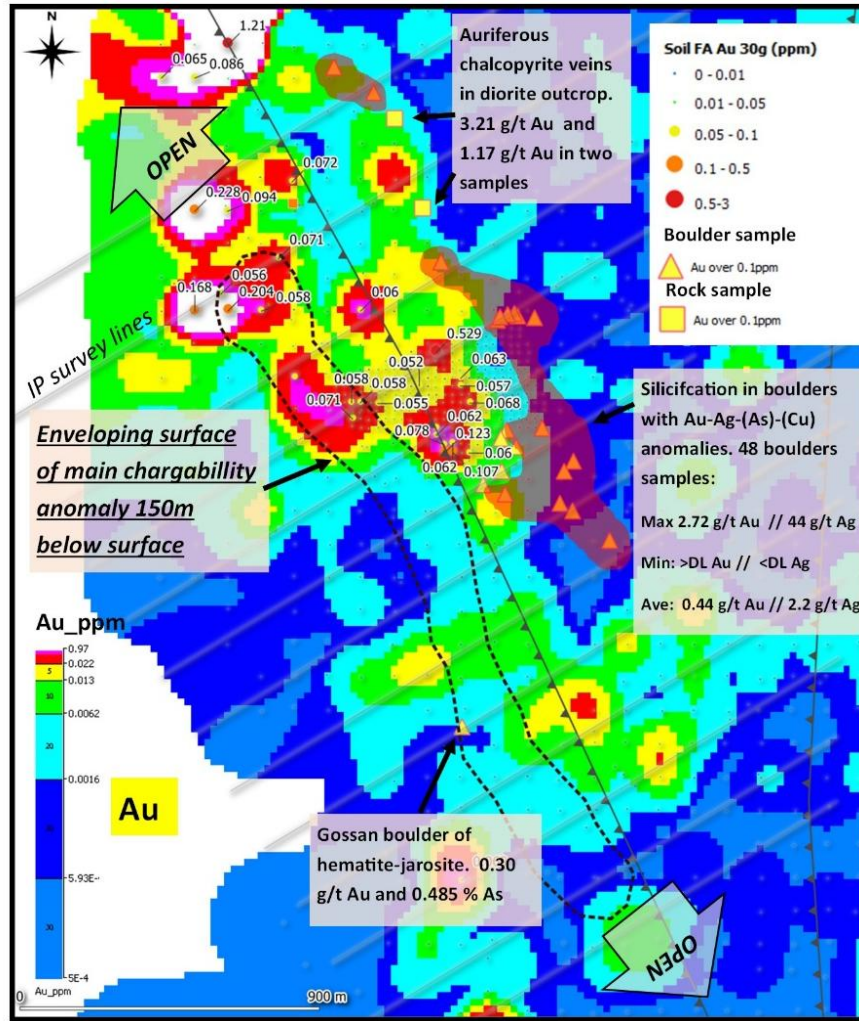


Belen Vista Alegre Mag and Geology





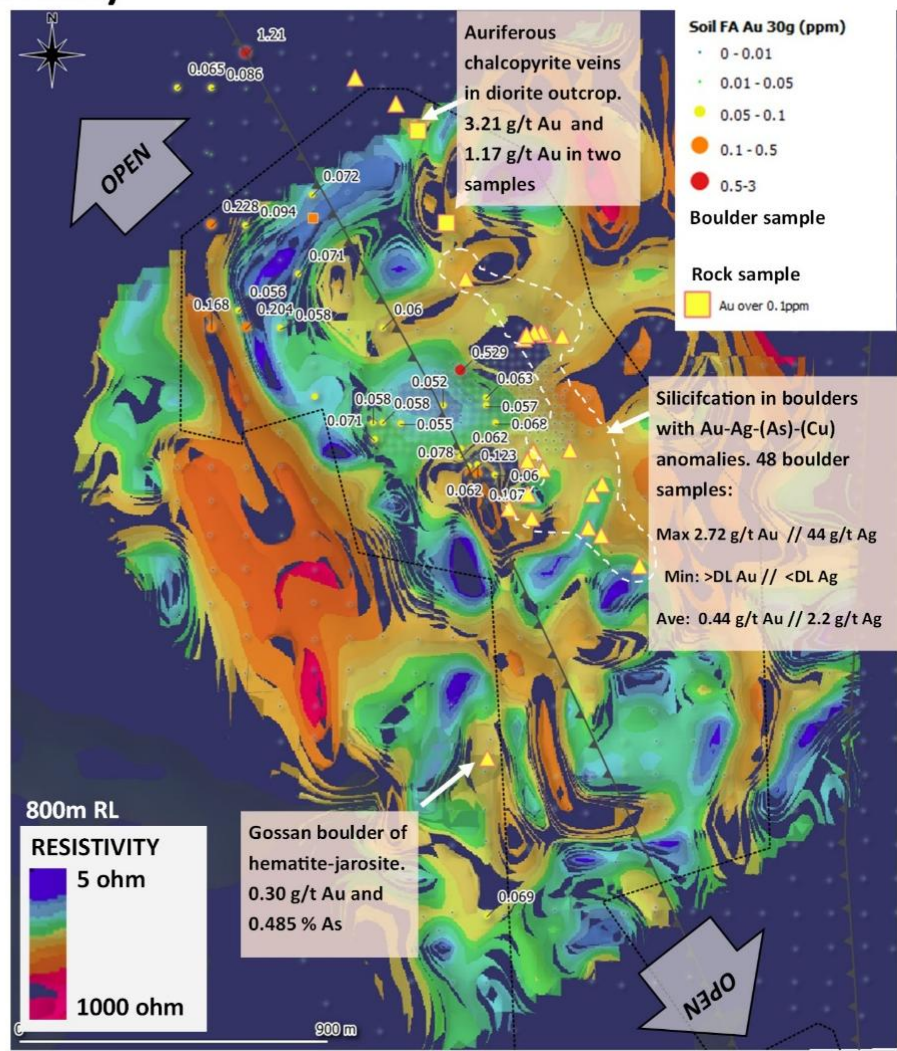
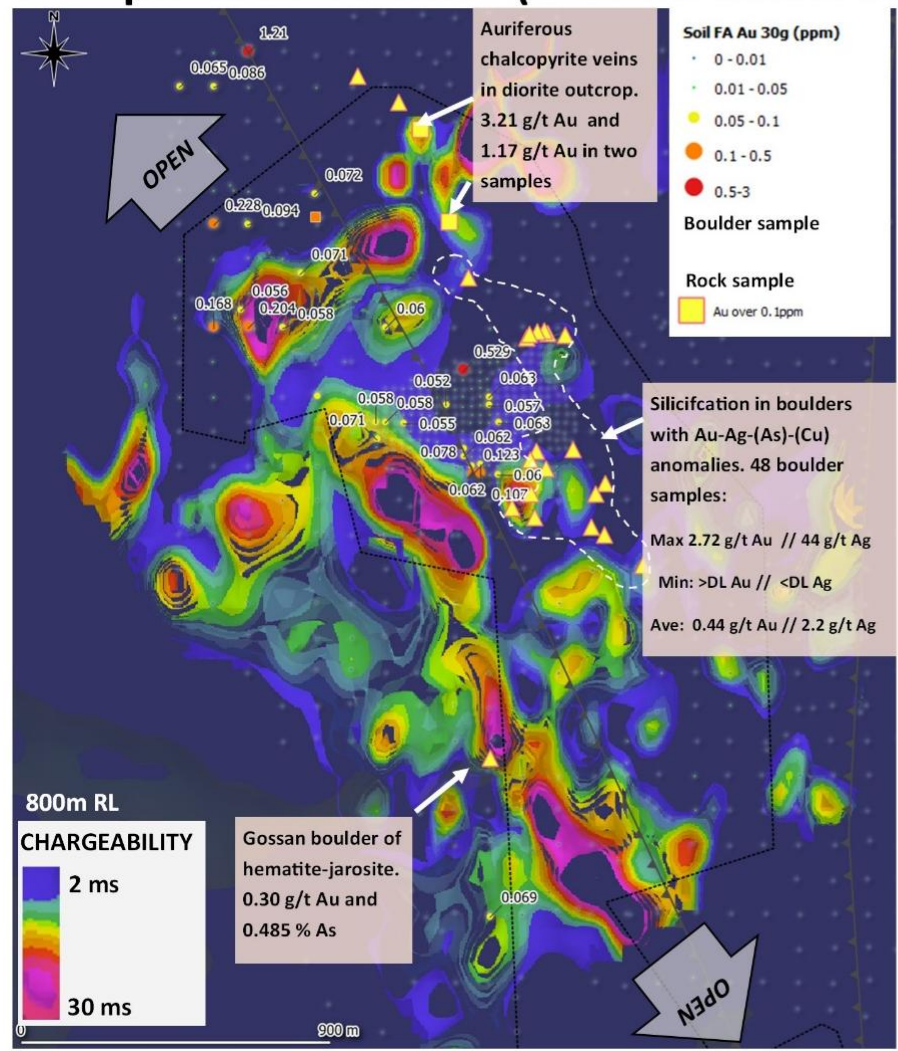
Belen Vista Alegre Soil Geochem





Belen Vista Alegre IP Geophysics

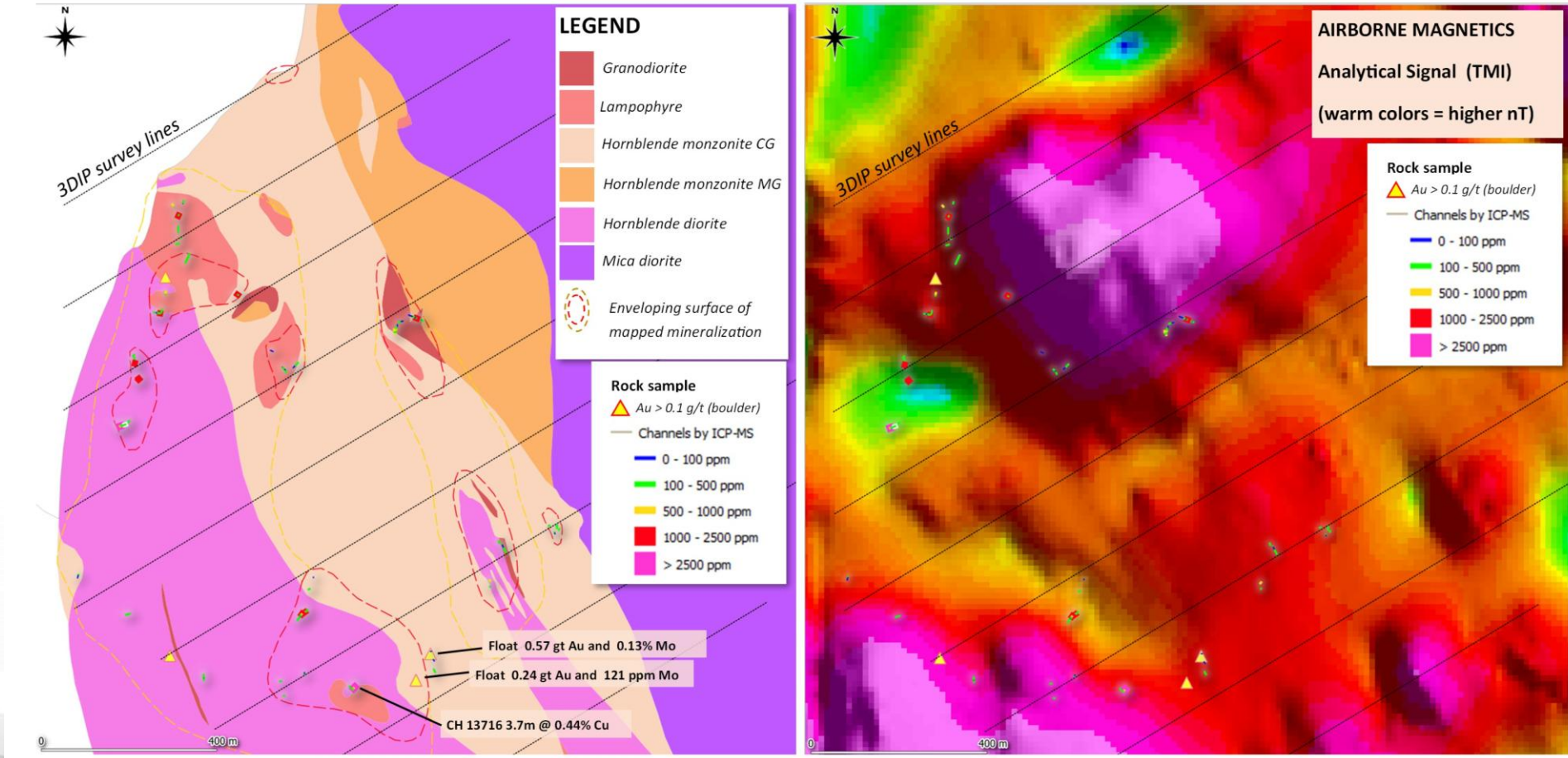
IP Depth slice 800mRL (c. 150m below surface)





Belen Sortilegio Mag and Geology

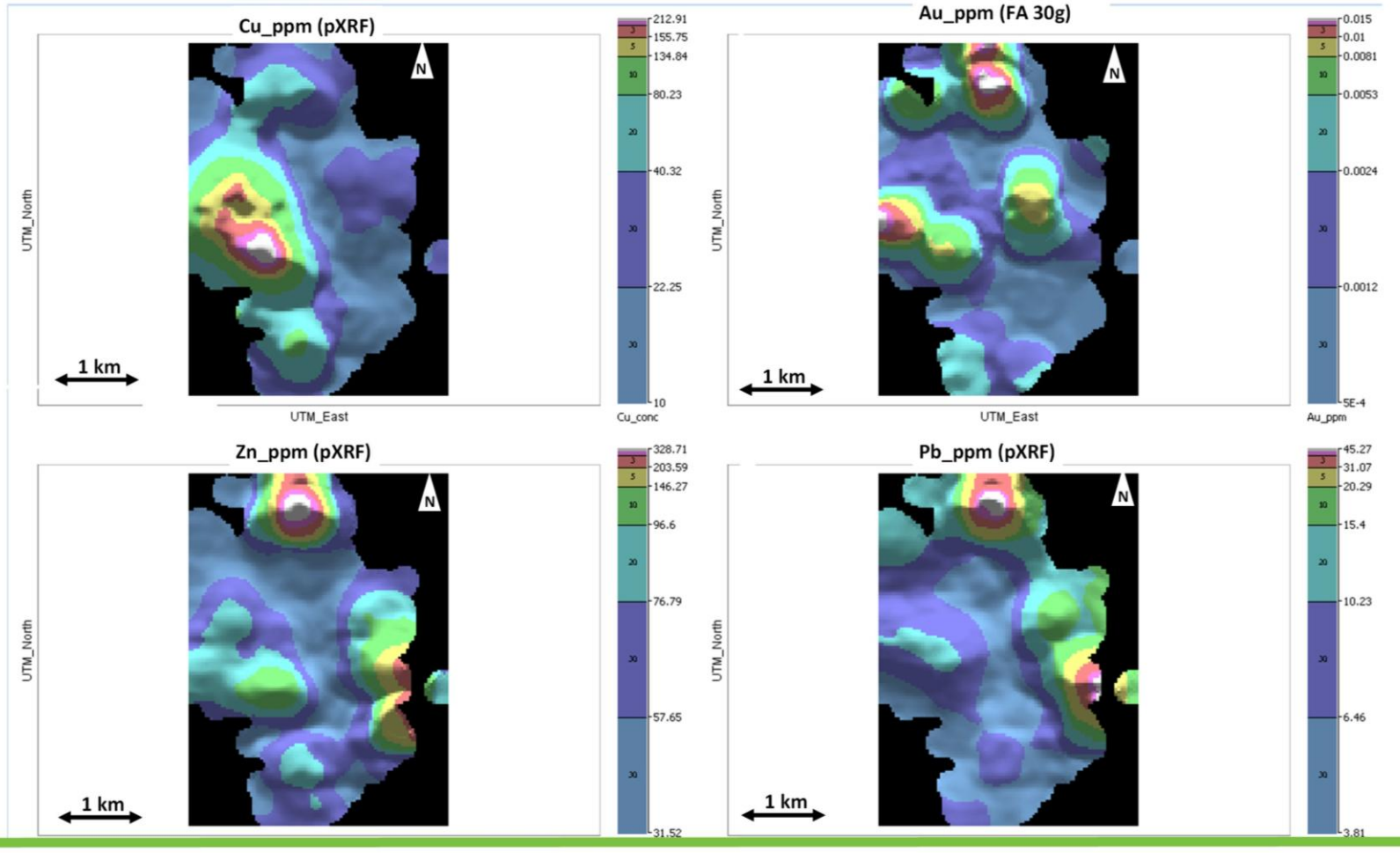
Geology and magnetics over the Sortilegio copper gold porphyry project at Valiente





Belen Sortilegio Soils Geochem

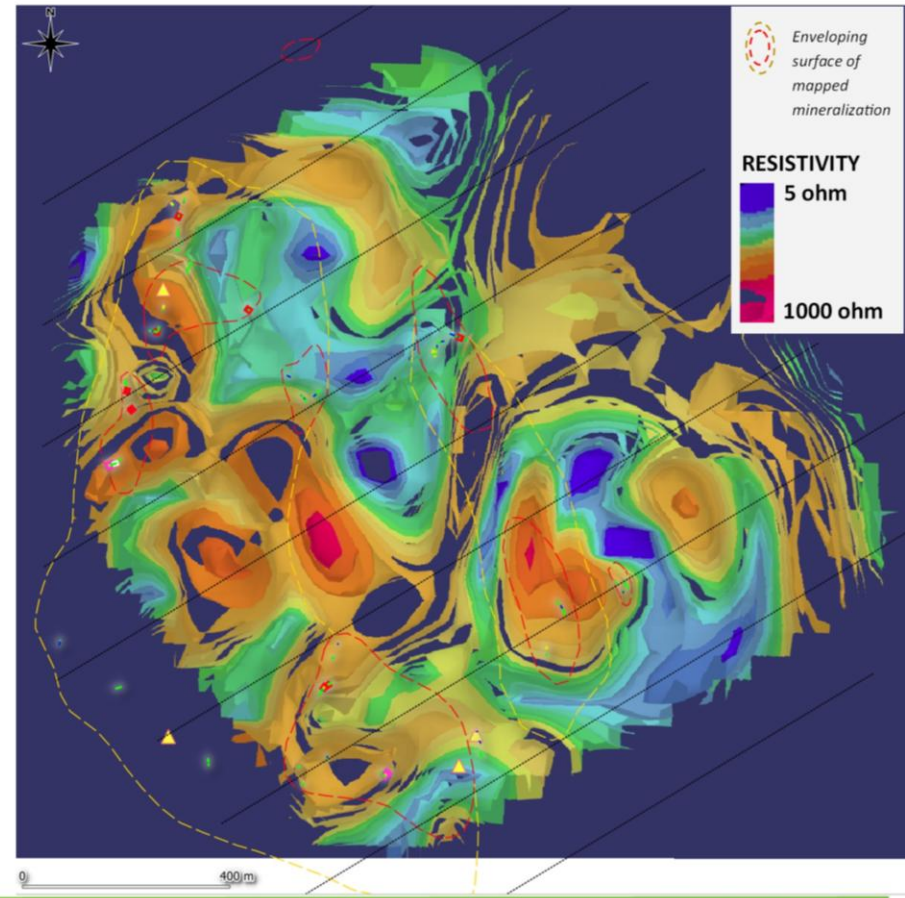
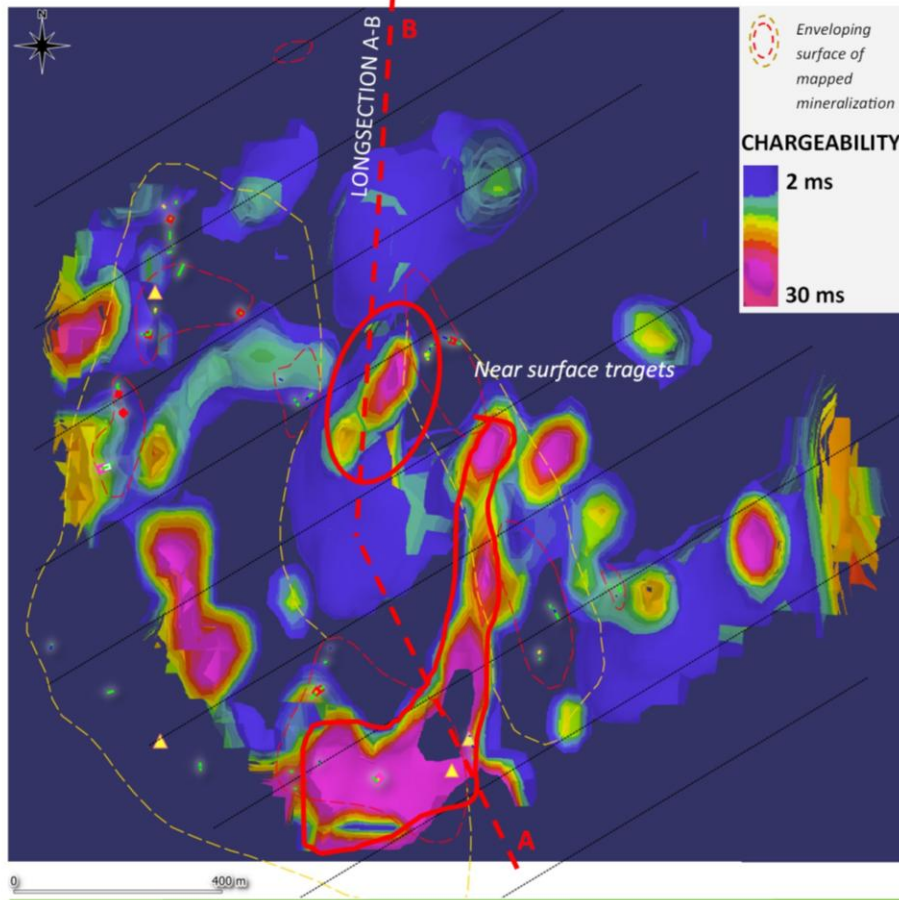
Soil geochemistry over the Sortilegio copper gold porphyry project at Valiente





Belen Sortilegio IP Geophysics

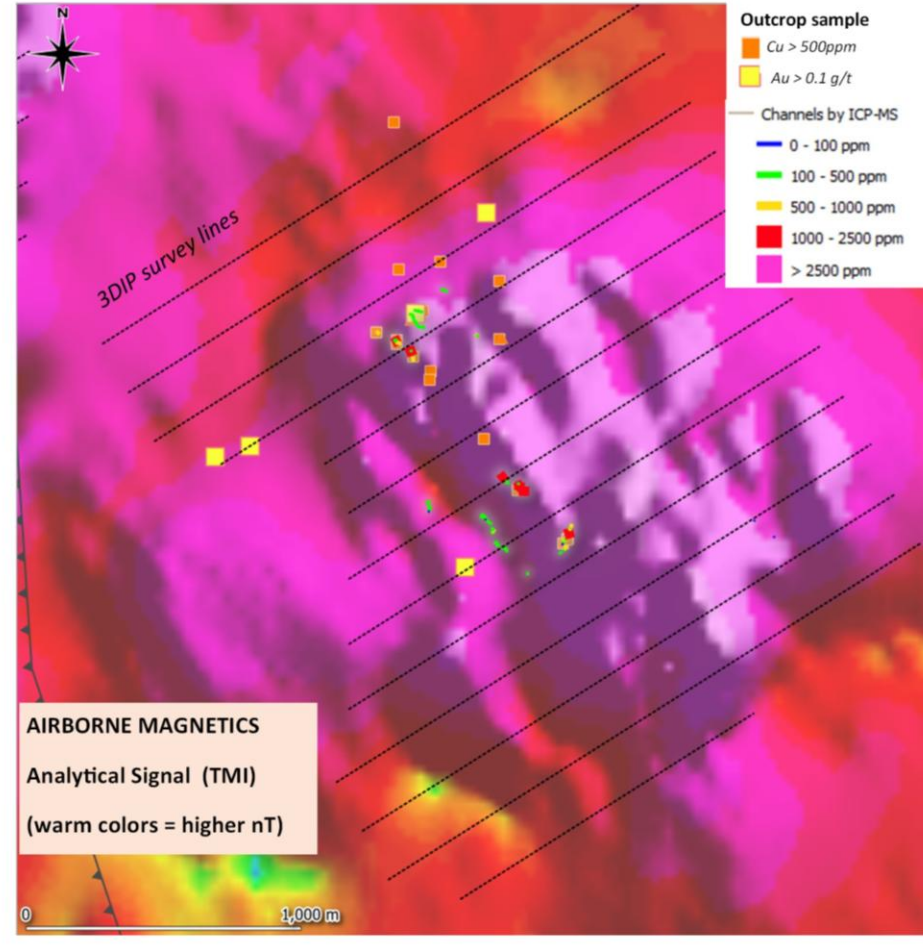
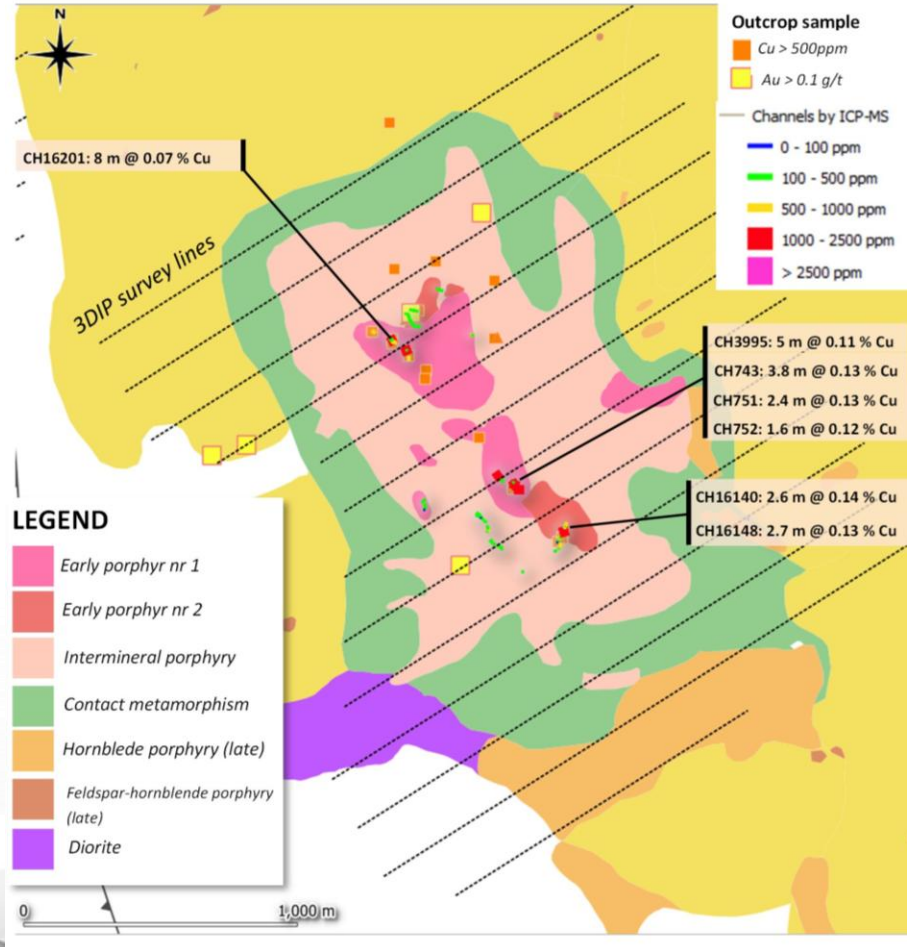
IP Depth slice 900mRL (c. 200 m below surface)





Belen Ricardo Herrera IP Geophysics

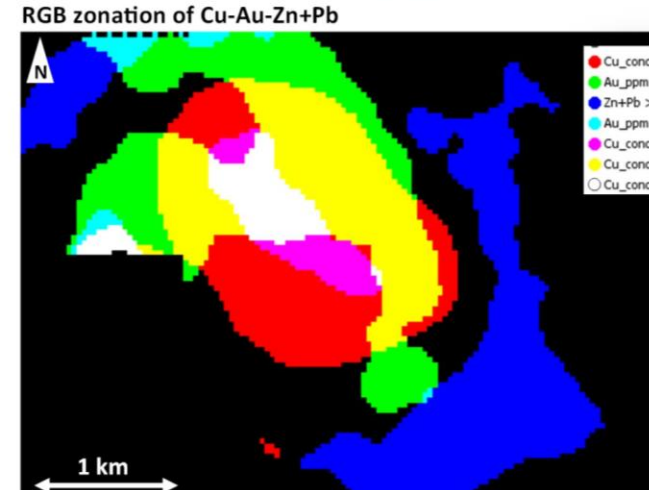
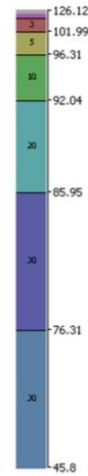
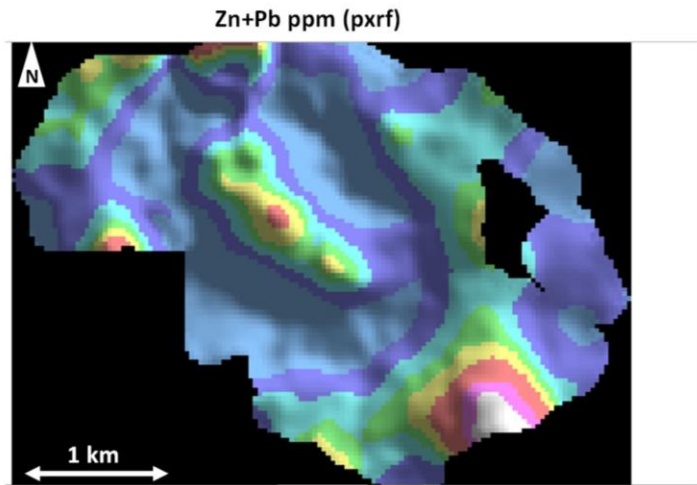
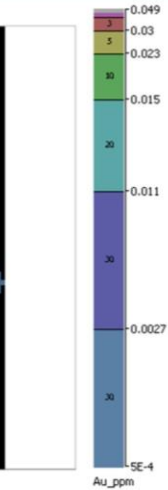
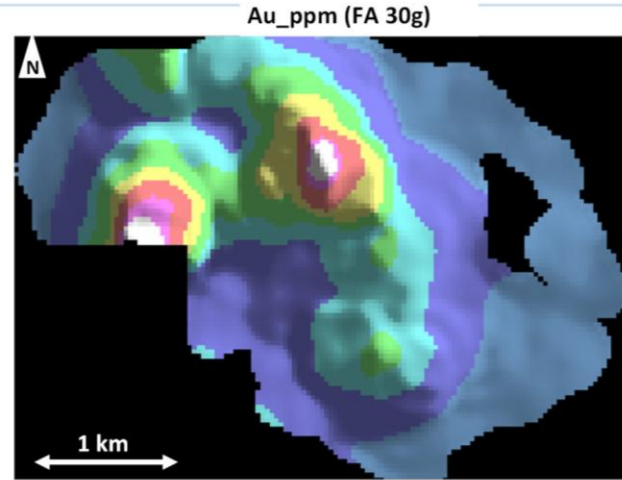
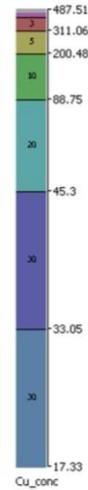
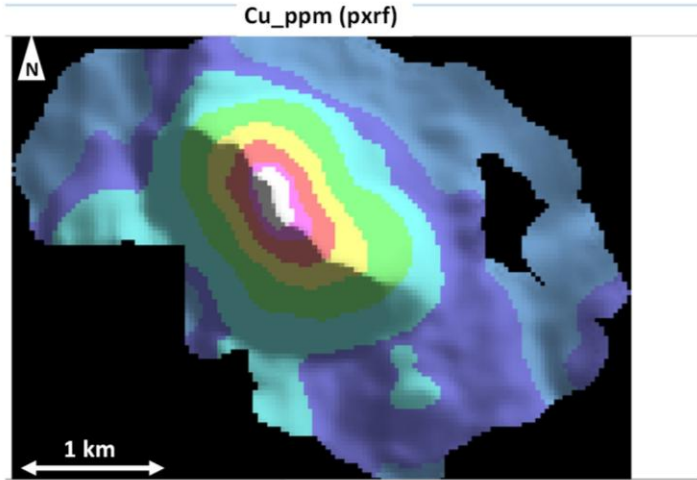
Geology and magnetics over the Ricardo Herrera copper gold porphyry project at Valiente





Belen Ricardo Herrera IP Geophysics

Soil results over the Ricardo Herrera copper gold porphyry project at Valiente

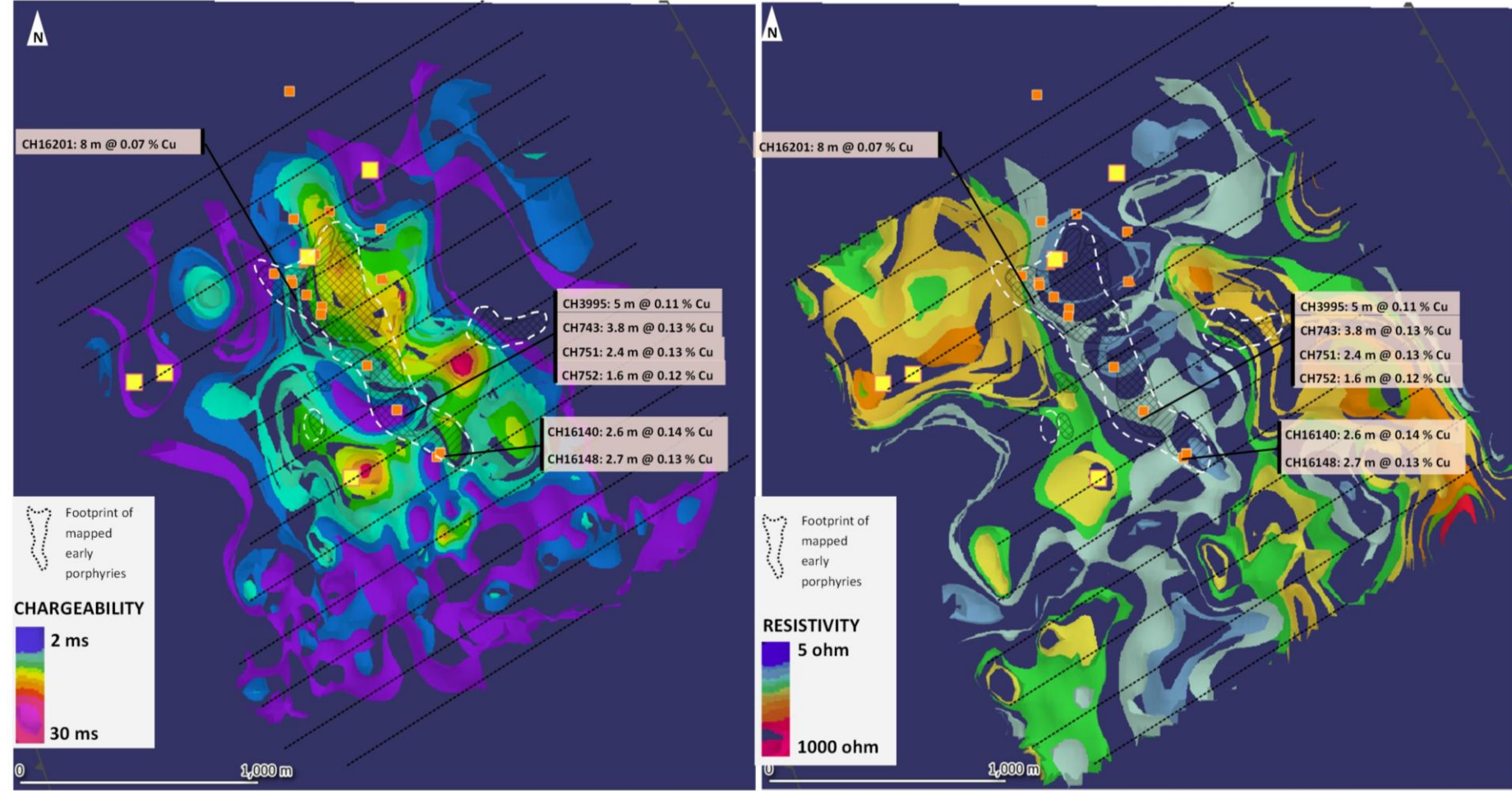


- Cu_conc > 75.0%
- Au_ppm > 75.0%
- Zn+Pb > 75.0%
- Au_ppm > 75.0% Zn+Pb > 75.0%
- Cu_conc > 75.0% Zn+Pb > 75.0%
- Cu_conc > 75.0% Au_ppm > 75.0%
- Cu_conc > 75.0% Au_ppm > 75.0% Zn+Pb > 75.0%



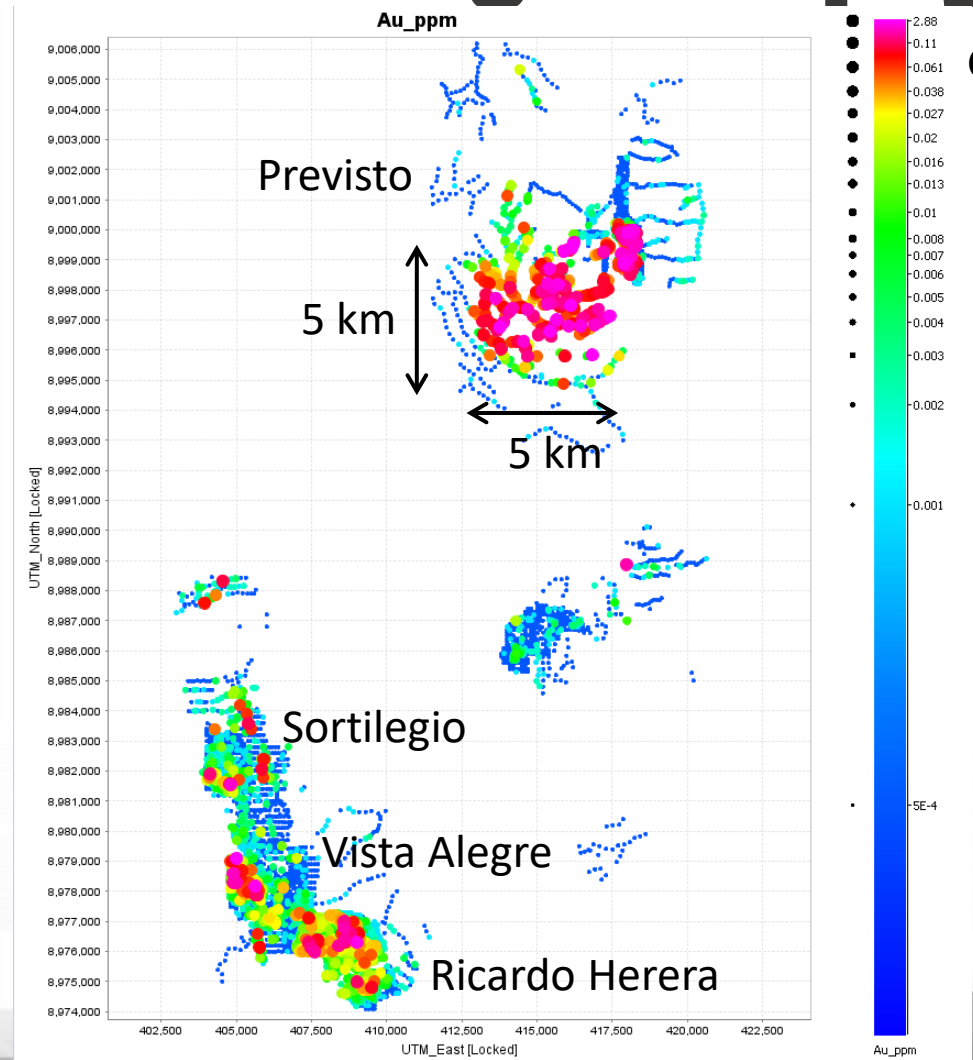
Belen Ricardo Herrera IP Geophysics

IP Depth slice 700mRL (c. 250m below surface)

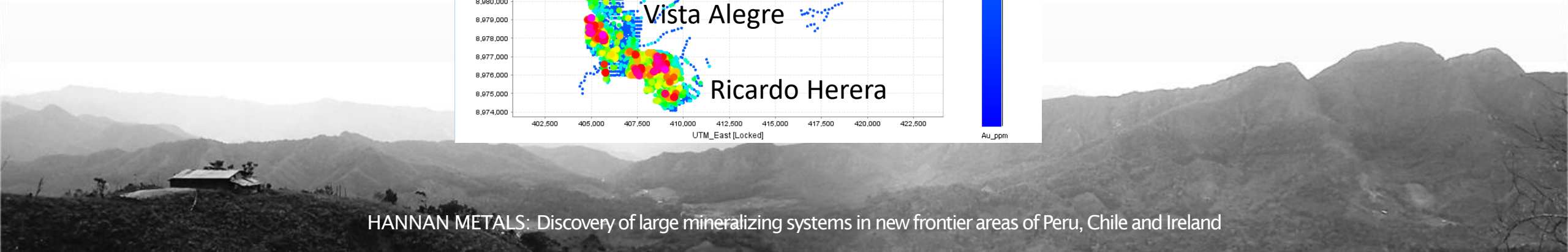




Previsto Giant Target Porphyry Cu-Au

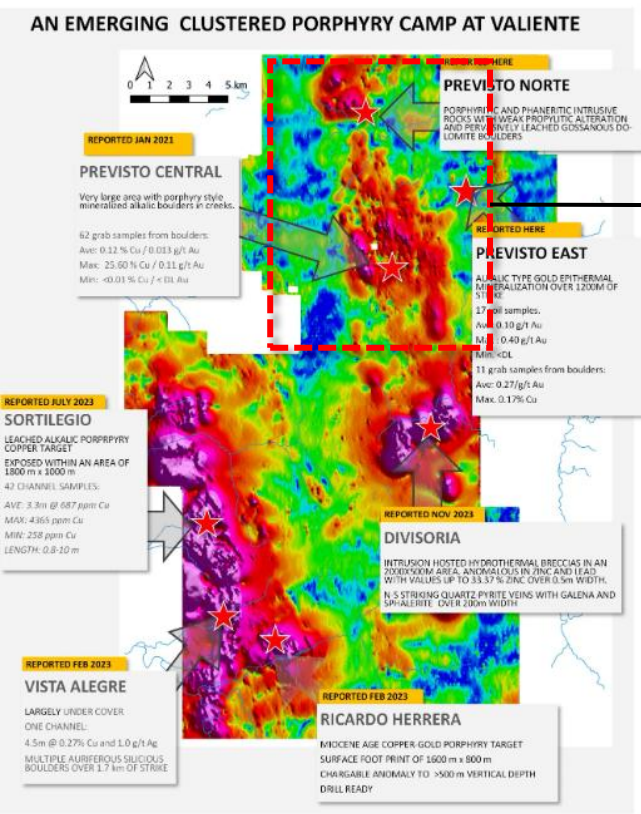


Gold in Soils

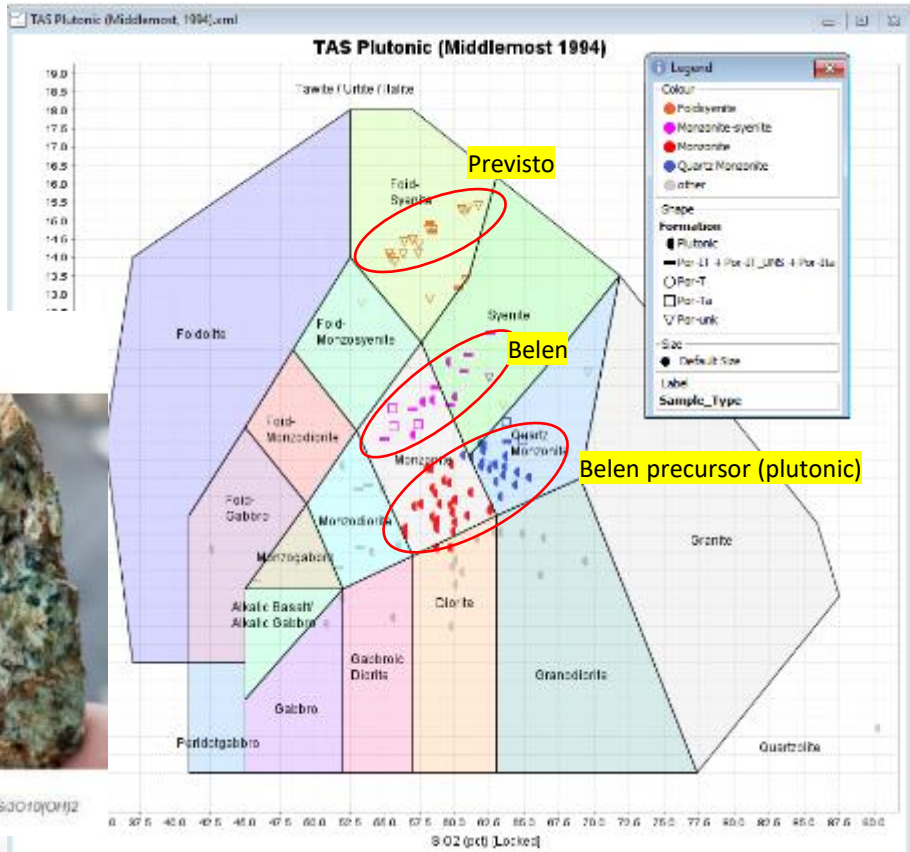
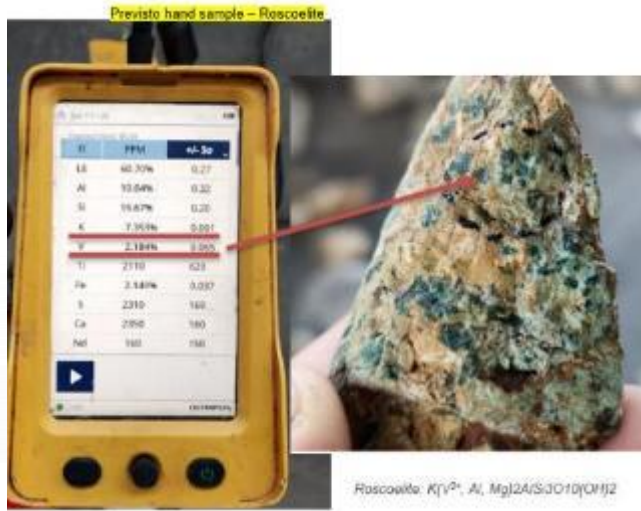




Valiente – Previsto Target

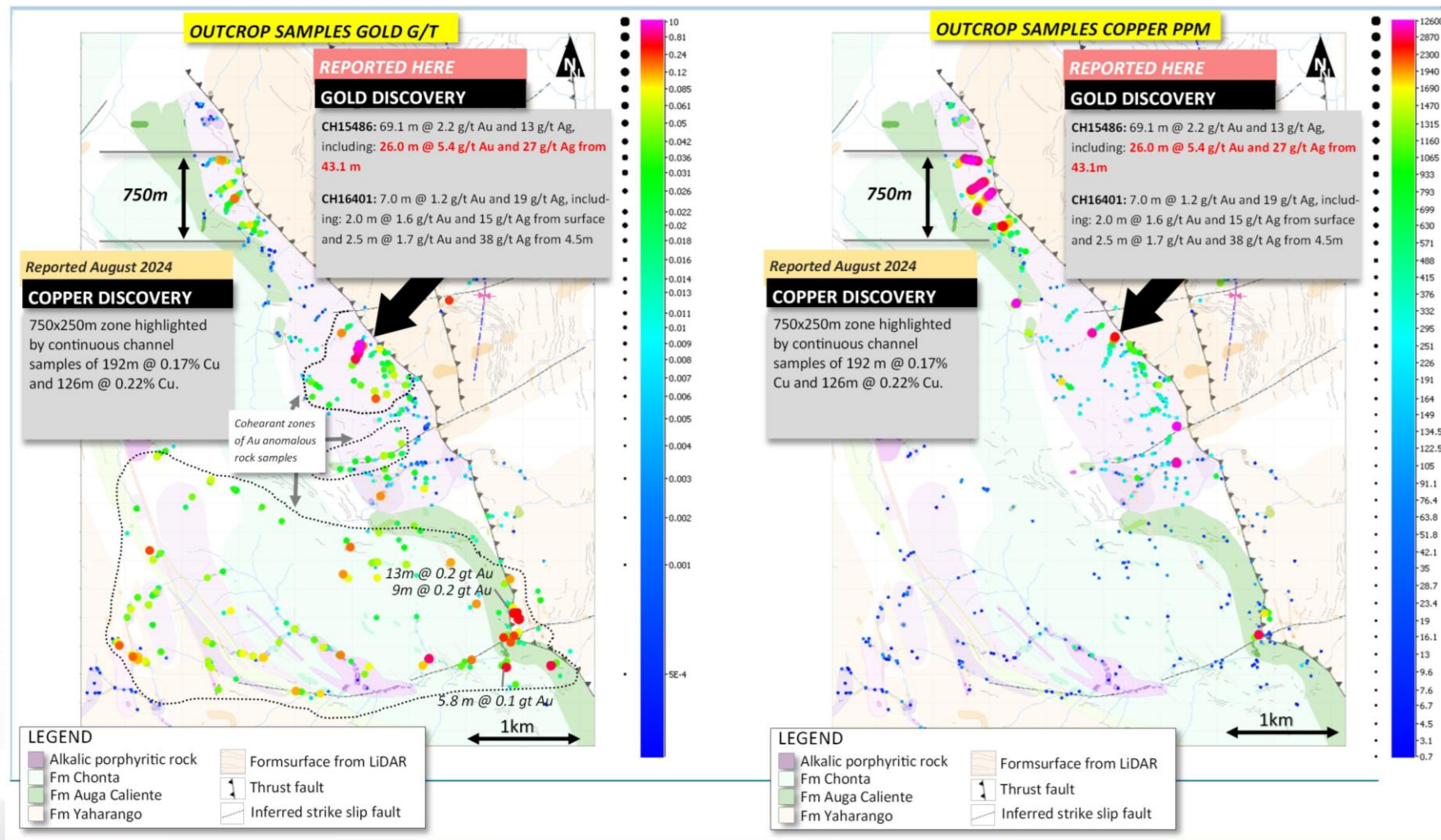


Litho-geochemistry distinguish this target from the Belen zone with an alkaline composition of the porphyry stocks.



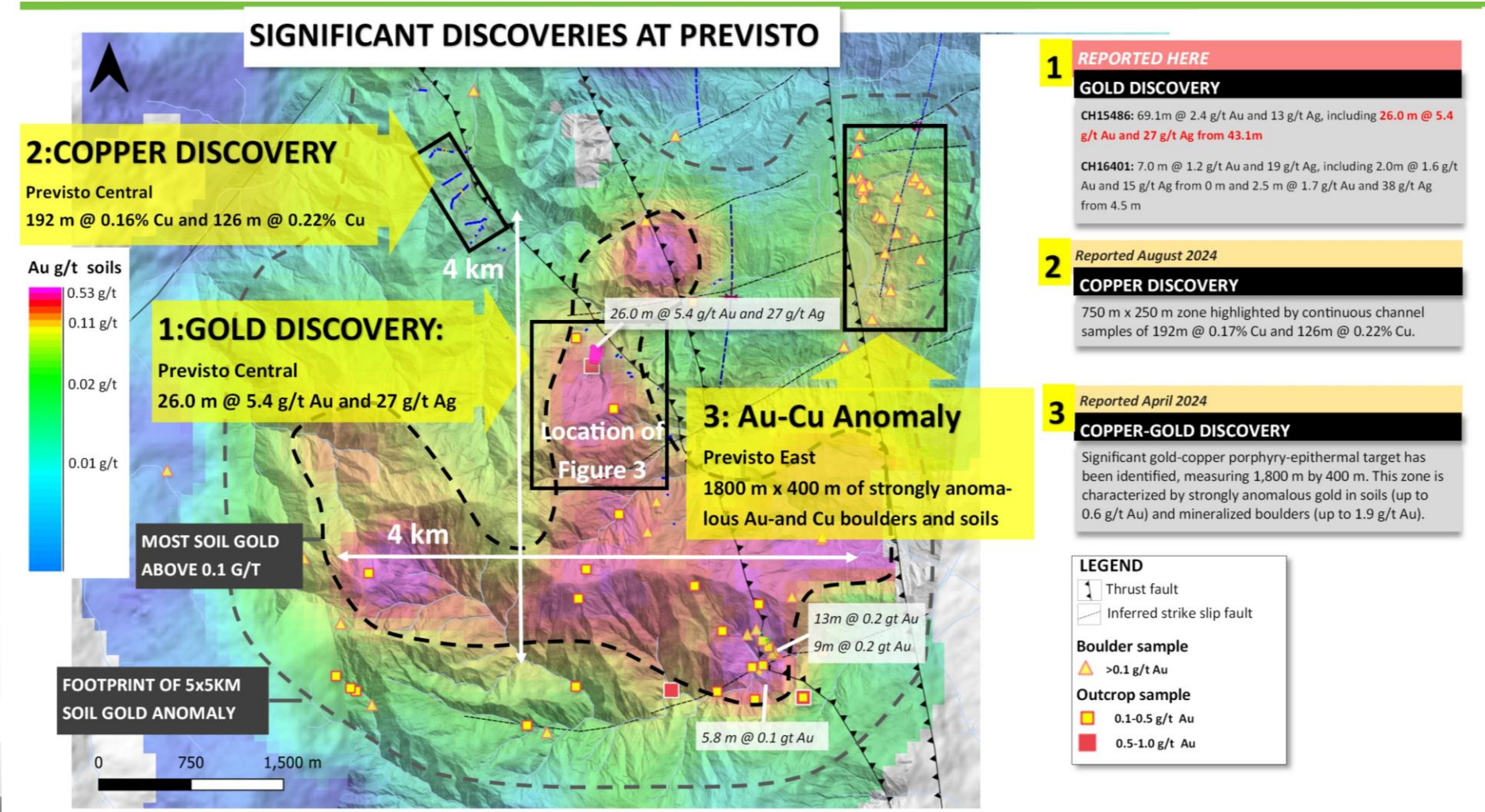


Previsto Cu & Au Outcrop Samples





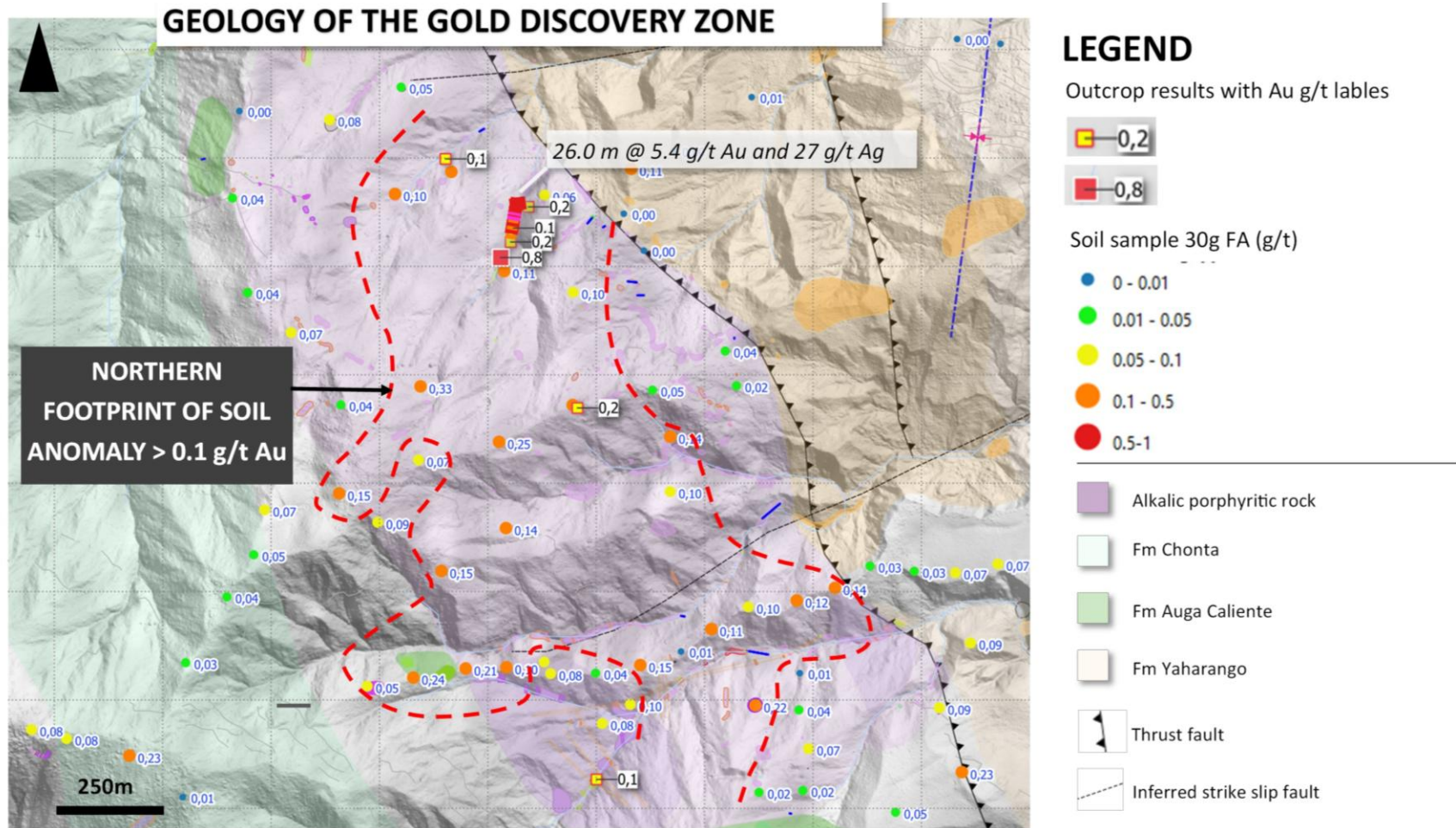
Previsto Significant Discoveries





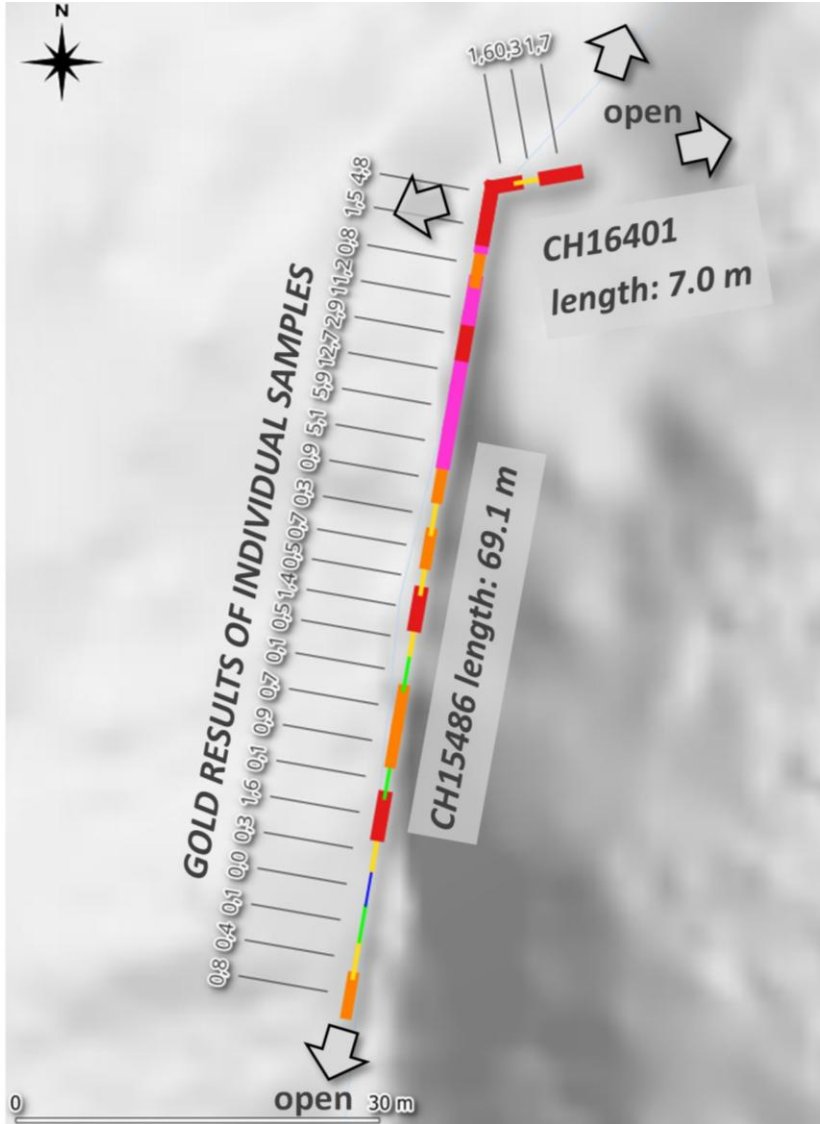
Previsto Channels

**69.1 m @ 2.4 g/t Au and 13 g/t Ag (uncut), including:
26.0 m @ 5.4 g/t Au and 27 g/t Ag (lower cut 3 m @ 0.8 ppm Au)**





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:

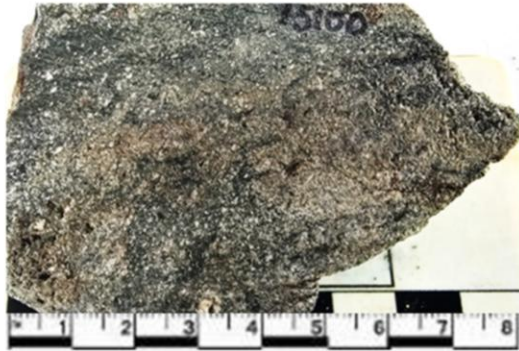
2.0 m @ 1.6 g/t Au and 15 g/t Ag from 0m

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

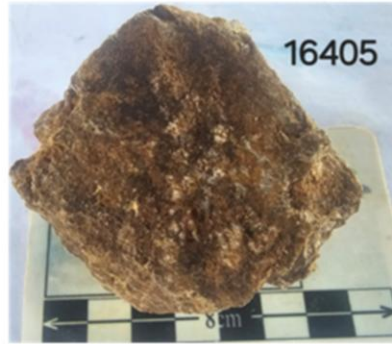
Sample ID	From (m)	To (m)	Length (m)	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm	Te ppm	V ppm
CH16401 - 7m												
16401	0	2	2	1.6	15	475	21	107	30	16	11	1485
16402	2	4.5	2.5	0.3	3	297	32	133	25	18	2	418
16403	4.5	7	2.5	1.7	38	639	65	67	107	414	35	5790
CH15486 - 69.05m												
15486	0	3	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 Alkaline LS Epithermal Rocks



Sample 15100 0.65m @ 16.1 g/t Au and 60 g/t Ag. Strongly foliated with fine roscoelite.



Sample 16405 3.0 m @ 11.2 g/t Au and 53 g/t Ag. Megacrystic k-feldspar porphyry. Strong weathering.



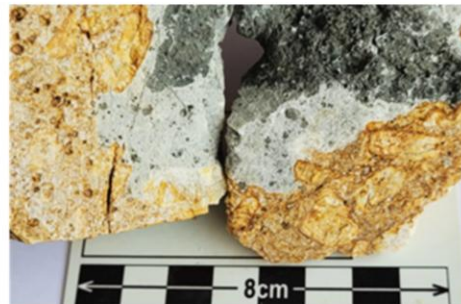
Sample 16407 3.0 m @ 12.7 g/t Au and 49 g/t Ag. Megacrystic k-feldspar porphyry strongly weathered overprinting phyllic alteration. 8-10% jarosite-goethite. Veinlets with silica-pyrite.



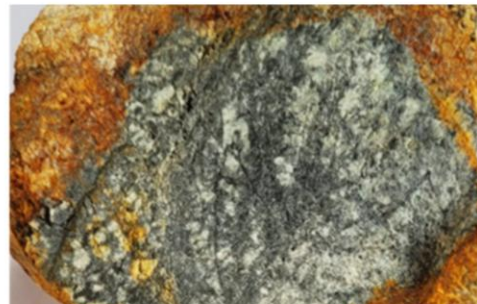
Sample 16408 3.0 m @ 5.9 g/t Au and 23 g/t Ag. Megacrystic k-feldspar porphyry with moderate phyllic alteration.



Sample 16403 2.5 m @ 1.7 g/t Au and 39 g/t Ag. K-feldspar porphyry with crackle texture and dark iron oxide patches.



Sample 15491 3.0m @ 1.6 g/t Au and 3.1 g/t Ag. K-feldspar porphyry with moderate phyllic alteration 2% disseminated pyrite. Pyrite veinlets with grey silica and pyrite-quartz filled cavities.



Sample 15493 3.0m @ 0.9 g/t Au and 2.8 g/t Ag. K-feldspar porphyry with moderate phyllic alteration cut by veinlets of iron oxides and silica. Spots of disseminated pyrite.



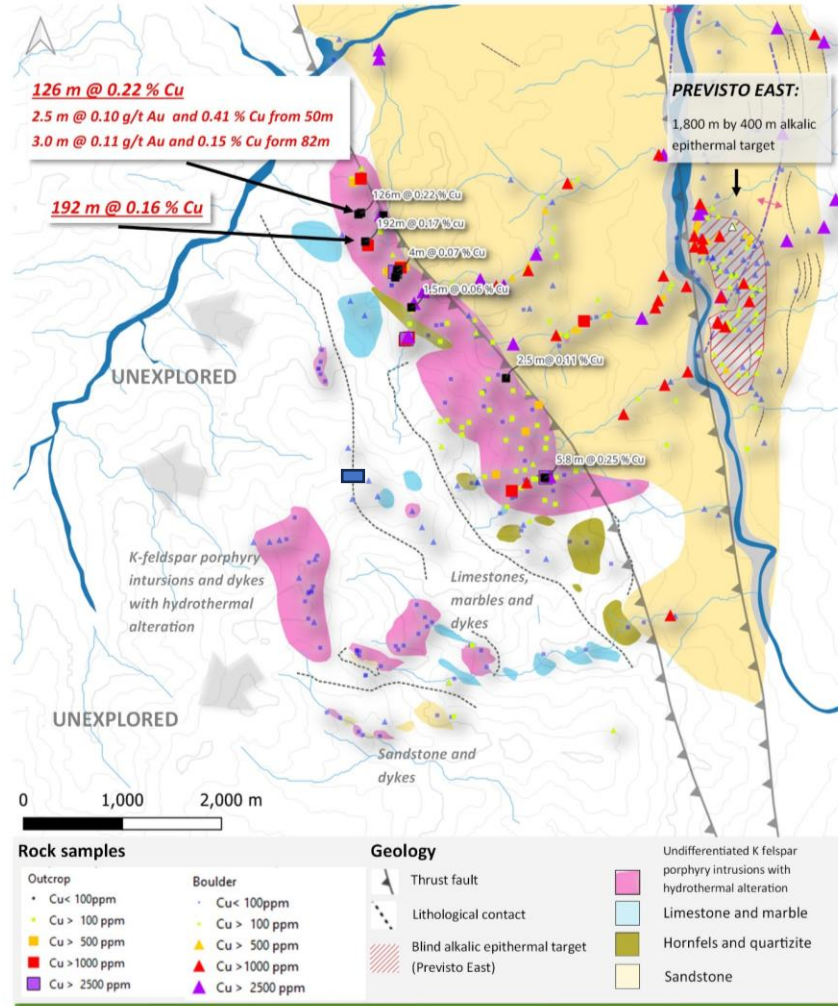
Sample 15496 2.5 m @ 0.5 g/t Au and 0.5% Ag. K-feldspar porphyry with moderate phyllic alteration..



Previsto Central Giant Target Porphyry Cu-Au



COPPER ROCK RESULTS FROM PREVISTO CENTRAL





Peru – San Martin Cu-Ag Project

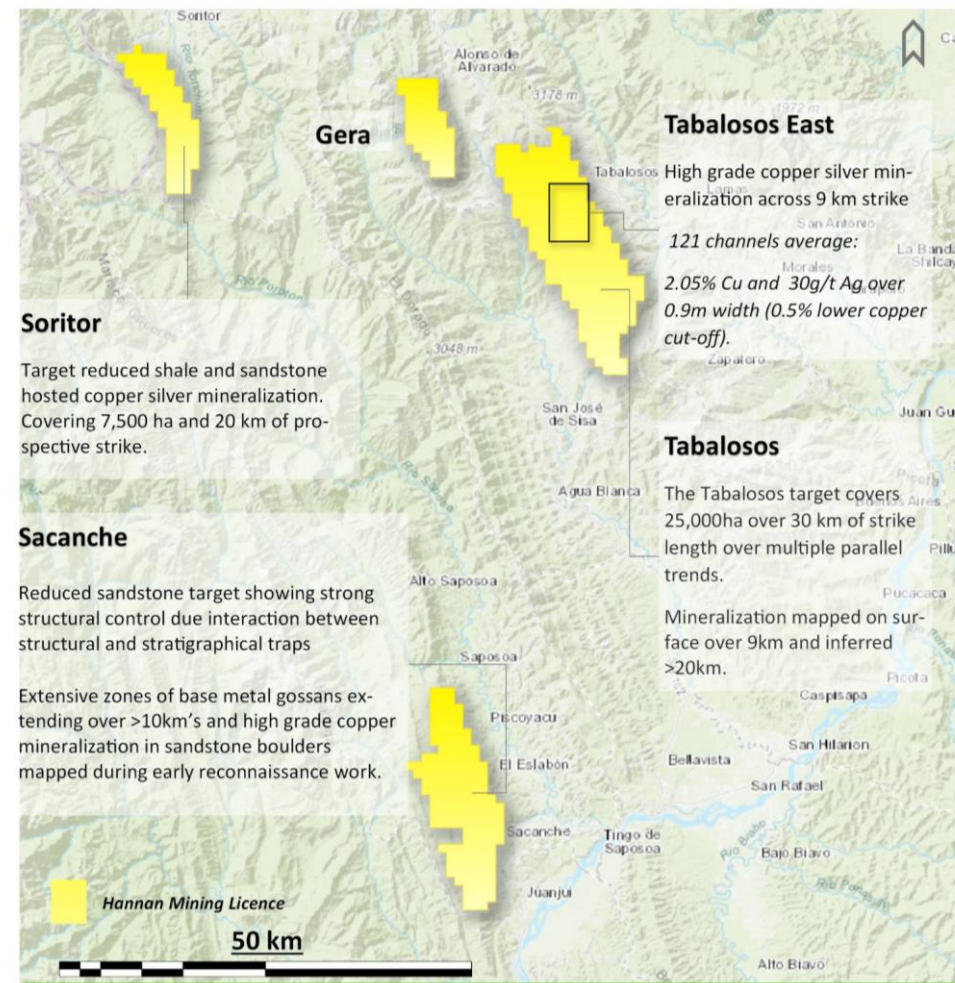
Reduced Sandstone Target Style

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

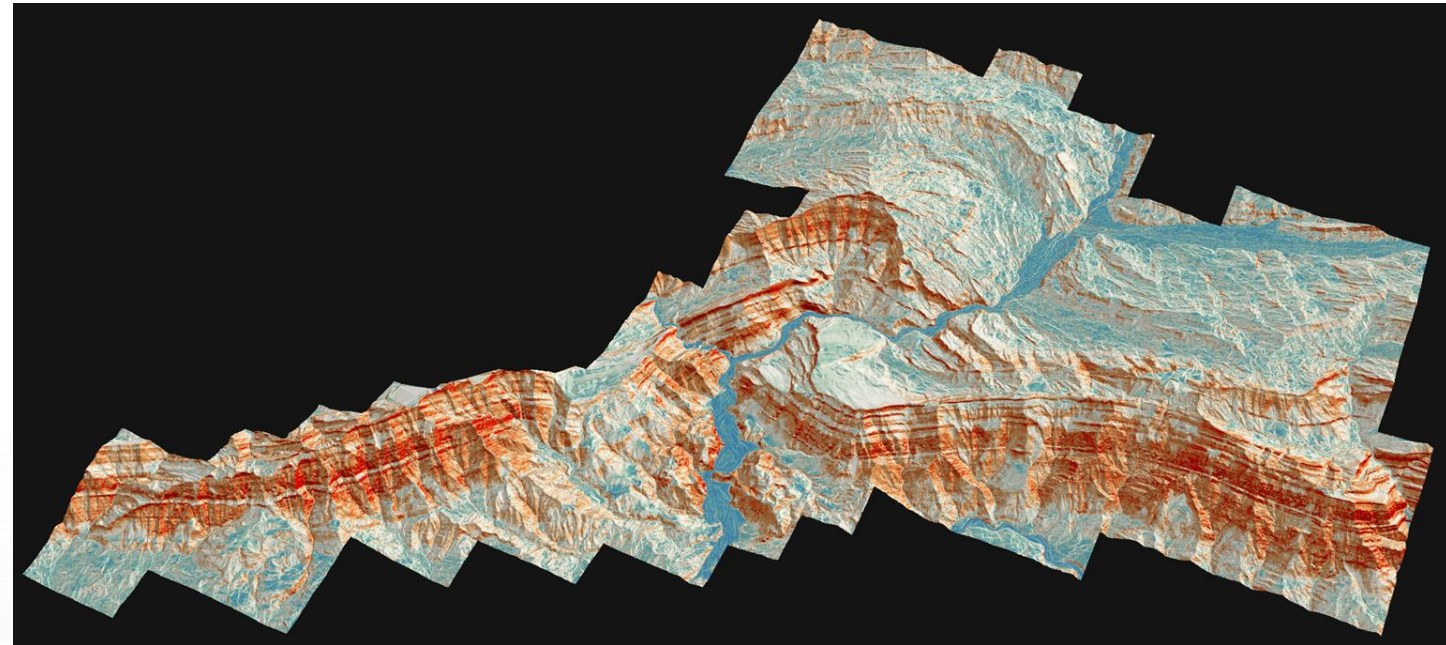
An emerging sediment hosted copper basin

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

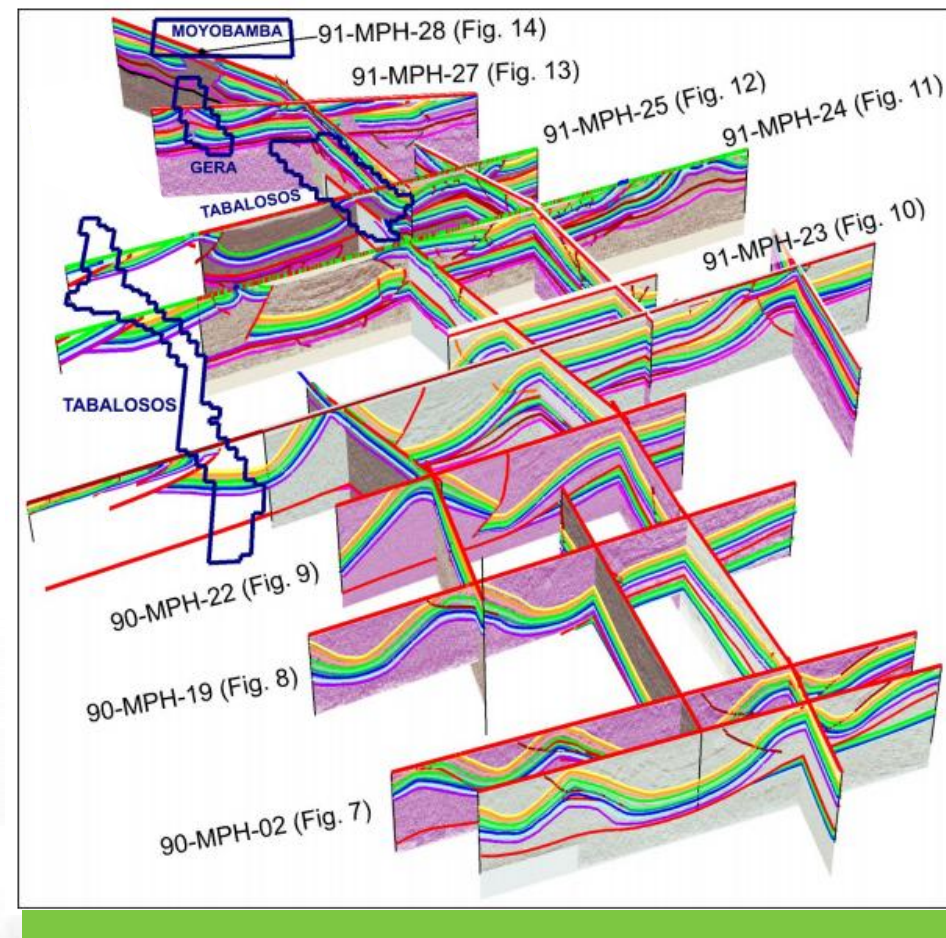
Geological de-risking

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)



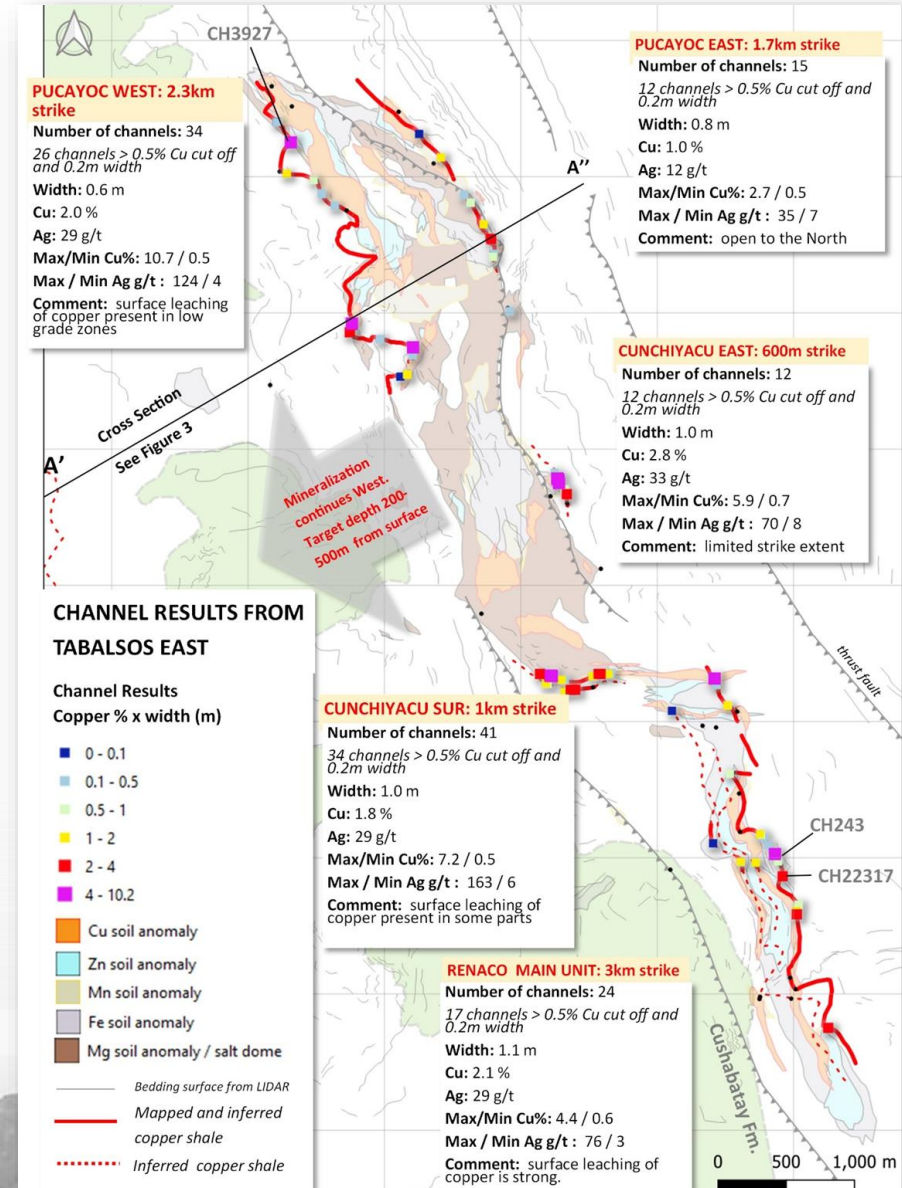
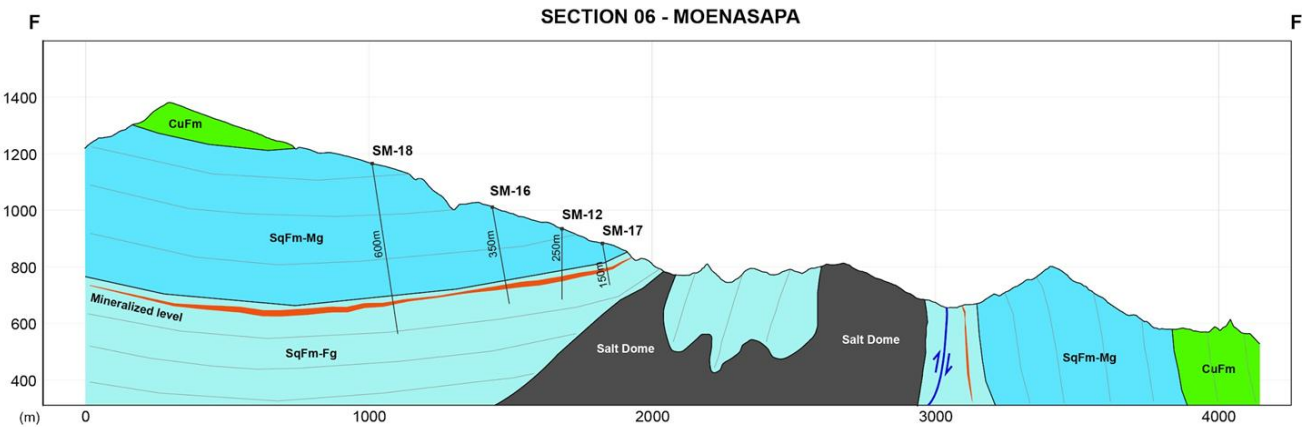


Peru – San Martin

Drill Program 2024 – Q2

2000m drill program – fully funded by JOGMEC

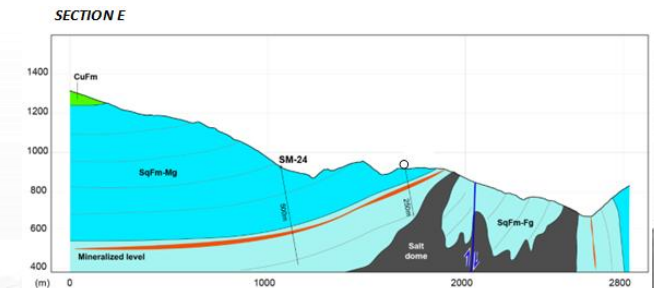
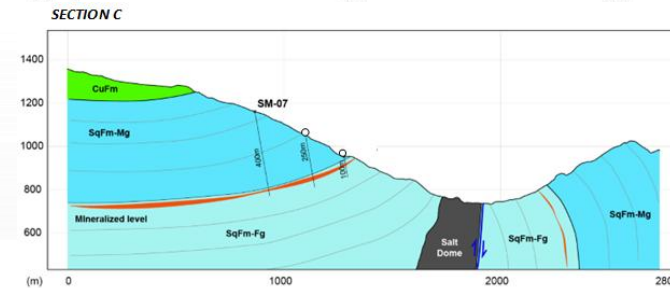
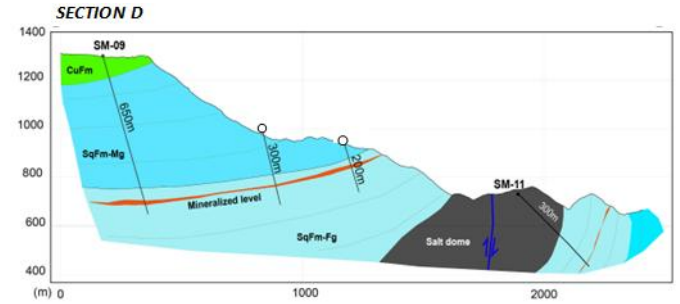
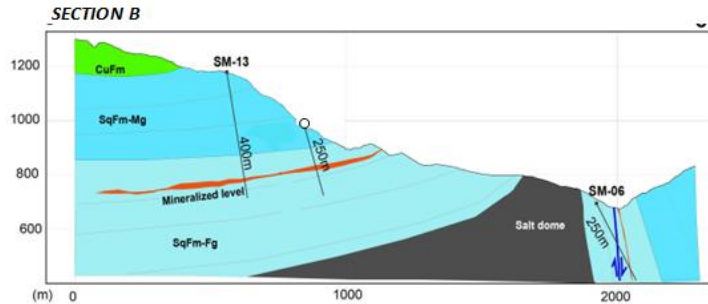
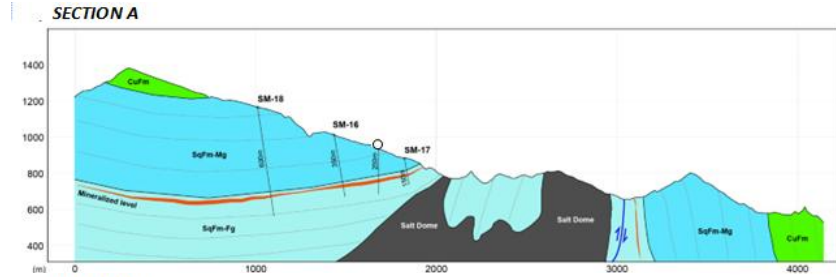
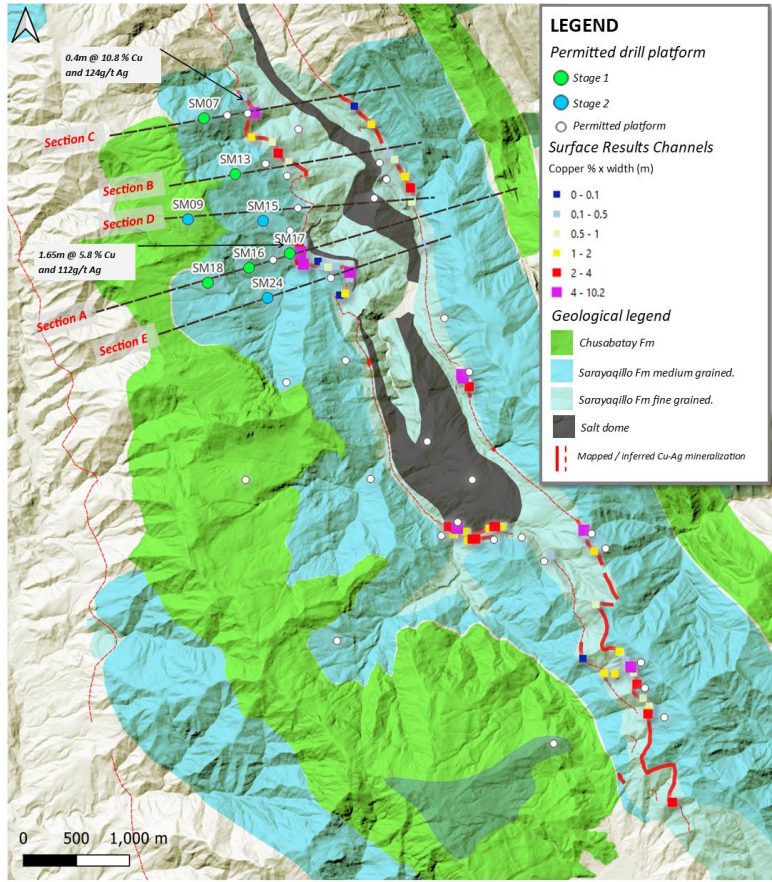
Outcropping high grade copper mineralization over 7 km of strike and down to a vertical depth of at least 500 meters





Peru – San Martin

Planned Drill Program

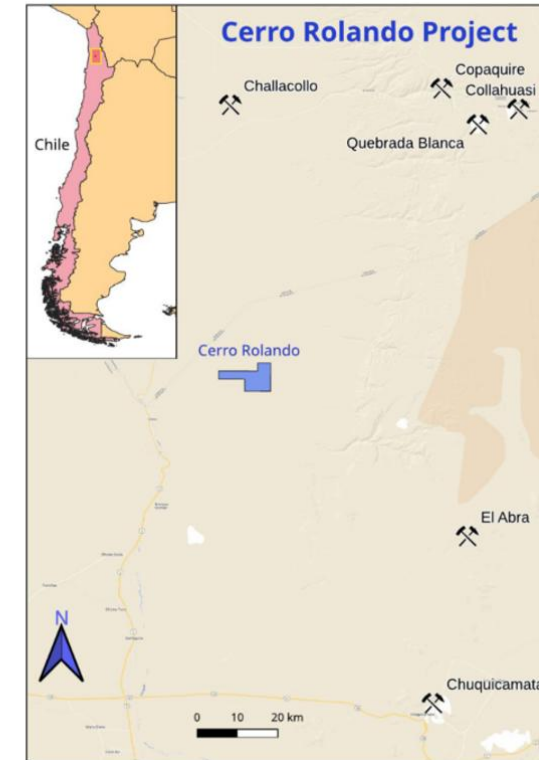
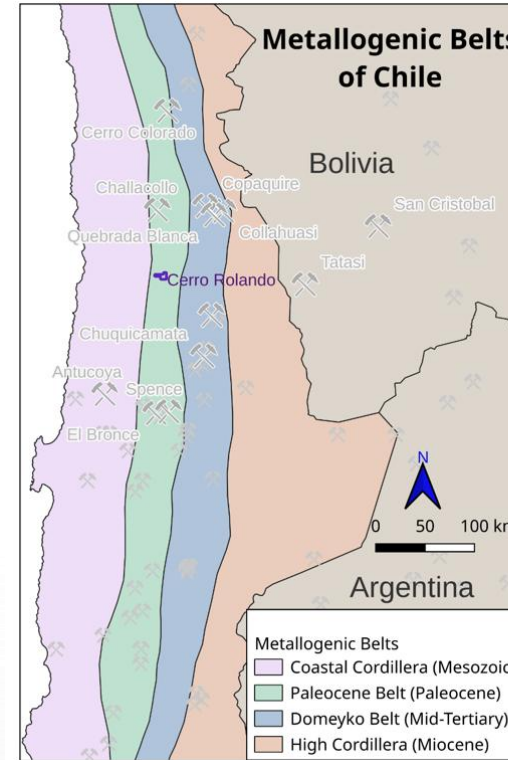




Chile – the Cerro Rolando Porphyry Project

Grass root opportunity in worlds premier copper province

- | Letter of Agreement to acquire 100% interest in the Cerro Rolando Copper porphyry project.
- | Located in the Palaeocene metallogenic belt of Chile
- | Airborne EM data models a conductor at the base of 200-metre-thick cover over 1.2 km of strike.
- | The conductor is interpreted to be a potential chalcocite enrichment blanket lying above a modelled magnetic body, interpreted to be the potassic core of a copper-bearing porphyry





Chile – the Cerro Rolando Porphyry Project

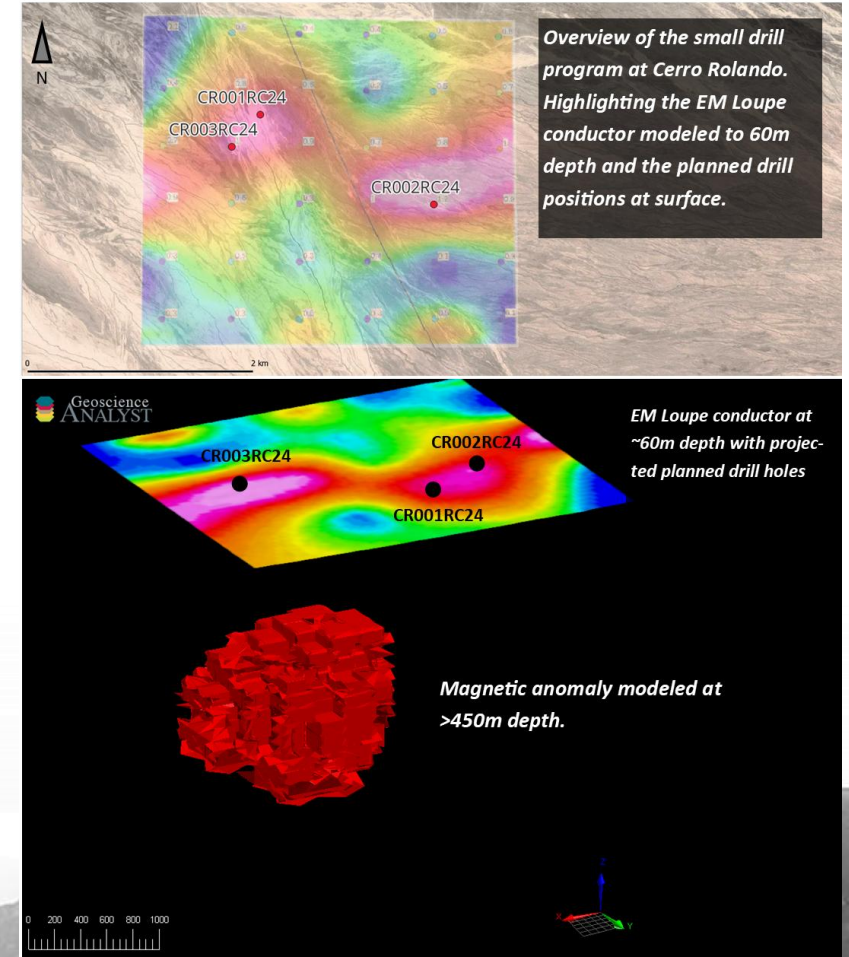
Grass root opportunity in worlds premier copper province

Completed initial geophysical surveys in 2023 (MAG EM LOOP)

Complex geological conditions but results supports perched sulphide /supergene mineralization within a leached cap.

The EM conductor is coinciding with a strong magnetic anomaly modelled at +450m depth.

Small 120m drill program in Q2 2025 to test model



Hannan in 2025



Q2 25 VALIENTE PERU – 100 % Hannan

DRILL PERMITTING COMPLETE
ACTIVE TEAM EXPLORING GIANT PREVISTO CENTRAL
ESTABLISH MULTIPLE DRILL AREAS OF COPPER-GOLD
TARGETS OVER THE NEXT 5 YEARS

Q3 25 - SAN MARTIN PERU JOGMEC JV

2,000m DRILL PROGRAM JV WITH JOGMEC - FULLY
FUNDED. SEDIMENT HOSTED COPPER SILVER

Q2 25 – CHILE – 100% Hannan

SMALL DRILL PROGRAM (120m) TO
TEST BLIND SUPERGENE PORPHYRY
COPPER TARGET

HANNAN METALS

Discovery of large copper and gold mineralizing systems in new frontiers

 Hannanmetals

TSXv: HAN

Contact

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