

# HANNAN METALS

Discovery of large copper and gold mineralizing systems in new frontiers

---

**April 2024**



# Disclaimer

---

**Accuracy of Information:** Readers are directed to the public disclosure of Hannan Metals Limited (“Hannan”) available under Hannan’s profile on the System for Electronic Document Analysis and Retrieval (“SEDAR”) at [www.sedar.com](http://www.sedar.com). Information contained in this presentation was believed to be accurate at the time it was posted, but may be superseded by more recent public disclosure of Hannan. Hannan makes no representations or warranties as to the accuracy, reliability, completeness or timeliness of the information in this presentation.

**Forward-Looking Information:** Some of the statements contained in this presentation may be forward-looking statements or forward-looking information within the meaning of applicable securities laws (collectively, "forward-looking statements"). All statements herein, other than statements of historical fact, are forward-looking statements. Although Hannan believes that such statements are reasonable, it can give no assurance that such expectations will prove to be correct. Forward-looking statements are typically identified by words such as: believe, expect, anticipate, intend, estimate, postulate, and similar expressions, or are those, which, by their nature, refer to future events. Hannan cautions investors that any forward-looking statements are not guarantees of future results or performance, and that actual results may differ materially from those in forward-looking statements as a result of various factors, including, but not limited to, capital and other costs varying significantly from estimates, changes in world metal markets, changes in equity markets, planned drill programs and results varying from expectations, delays in obtaining results, equipment failure, unexpected geological conditions, local community relations, dealings with non-governmental organizations, delays in operations due to permit grants, environmental and safety risks, and other risks and uncertainties. Any forward-looking statement speaks only as of the date on which it is made and, except as may be required by applicable securities laws, Hannan does not assume the obligation to revise or update forward-looking statements or information that may be contained in this presentation or to revise them to reflect the occurrence of future unanticipated events.

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

1 January 2024

# Overview

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

- ✓ Focus on new frontiers ripe for giant discoveries
- ✓ Momentum – first drill permits
- ✓ **Drilling in Chile and Peru 2024.** Anticipating a pipeline of drill ready porphyry-skarn and epithermal targets over the next five years
- ✓ JOGMEC (JV) and TECK (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)



**Cerro Rolando (Chile)** a large, blind geophysical porphyry target with fast permitting

# Capital Structure

**INSIDERS:** 14%

**SHARES ON ISSUE:** 109.4m

**FULLY DILUTED:** 121.9m

**RECENT PRICE:** C\$0.38 (12 April 24)

**MARKET CAP:** C\$41.6m

**CASH:** C\$1.9m (Nov 30, 2023)

**WARRANTS:** 3.5m (\$0.35 May 26)



HAN



HANNF



## Options

	Price	No. of Securities
Expiring June 14, 2024	\$0.285	275,000
Expiring October 4, 2024	\$0.285	30,000
Expiring December 3, 2024	\$0.235	120,000
Expiring December 28, 2025	\$0.28	3,848,000
Expiring March 1, 2026	\$0.28	150,000
Expiring August 22, 2028	\$0.25	4,438,500



# Peru: Targeting giant metal districts

**Big company land position**

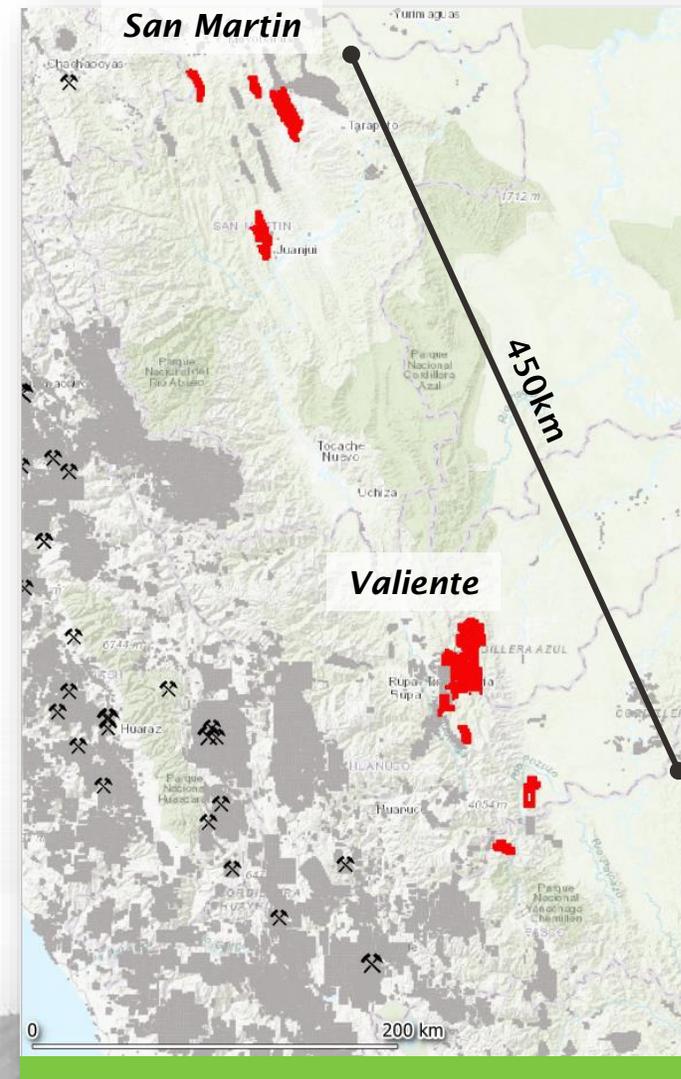
**Hannan Tenure in Peru:  
1,686 km<sup>2</sup>**

**Valiente 1001 km<sup>2</sup>**

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

**San Martin 685 km<sup>2</sup>**

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



# Investment Highlights

---

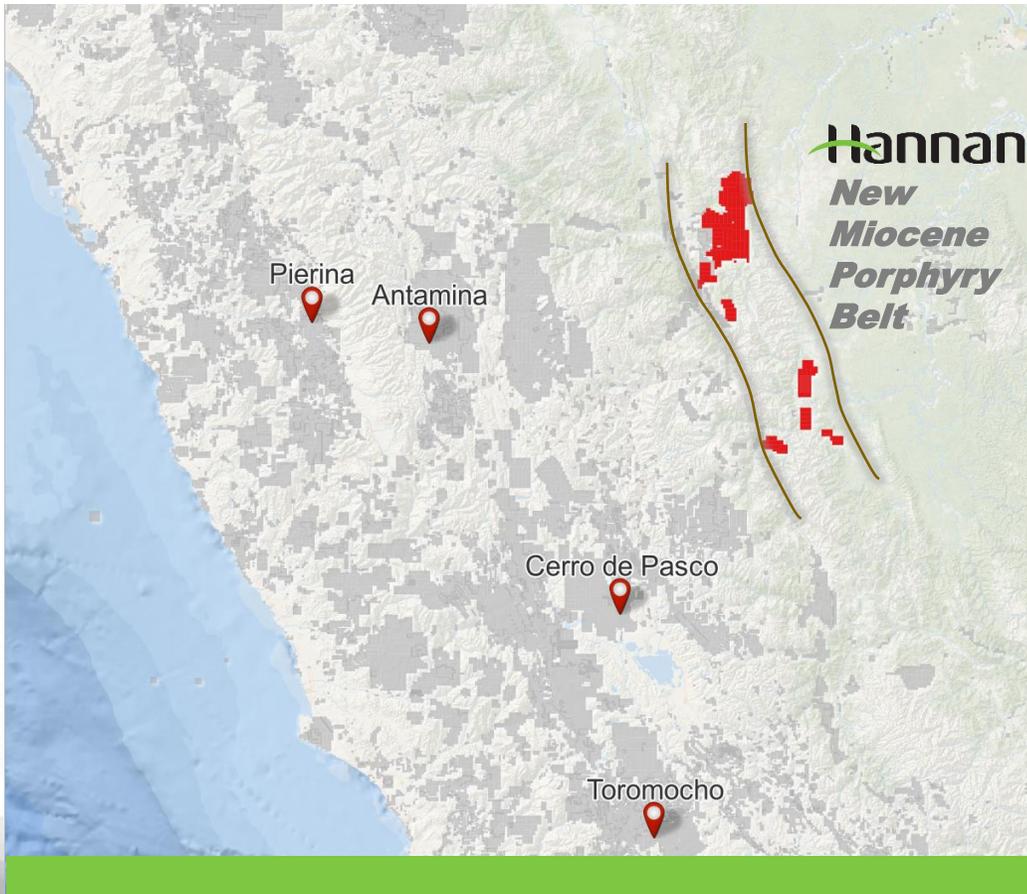
1. First mover and large land position with de-risked drill ready targets
2. Emerging porphyry district with low hanging fruit and potential for giant discoveries
3. Exploration results recognized by strategic investment from Canada's largest mining company and a key joint venture agreement with the Japanese government (JOGMEC) at San Martin, Peru
4. Maiden drill permitting ongoing at both Valiente and San Martin projects in Peru.
5. Drill plans: SAN MARTIN Q2 2024 / VALIENTE 2025





# Peru – Valiente: A Giant Opportunity

A unique opportunity 100 % owned by Hannan



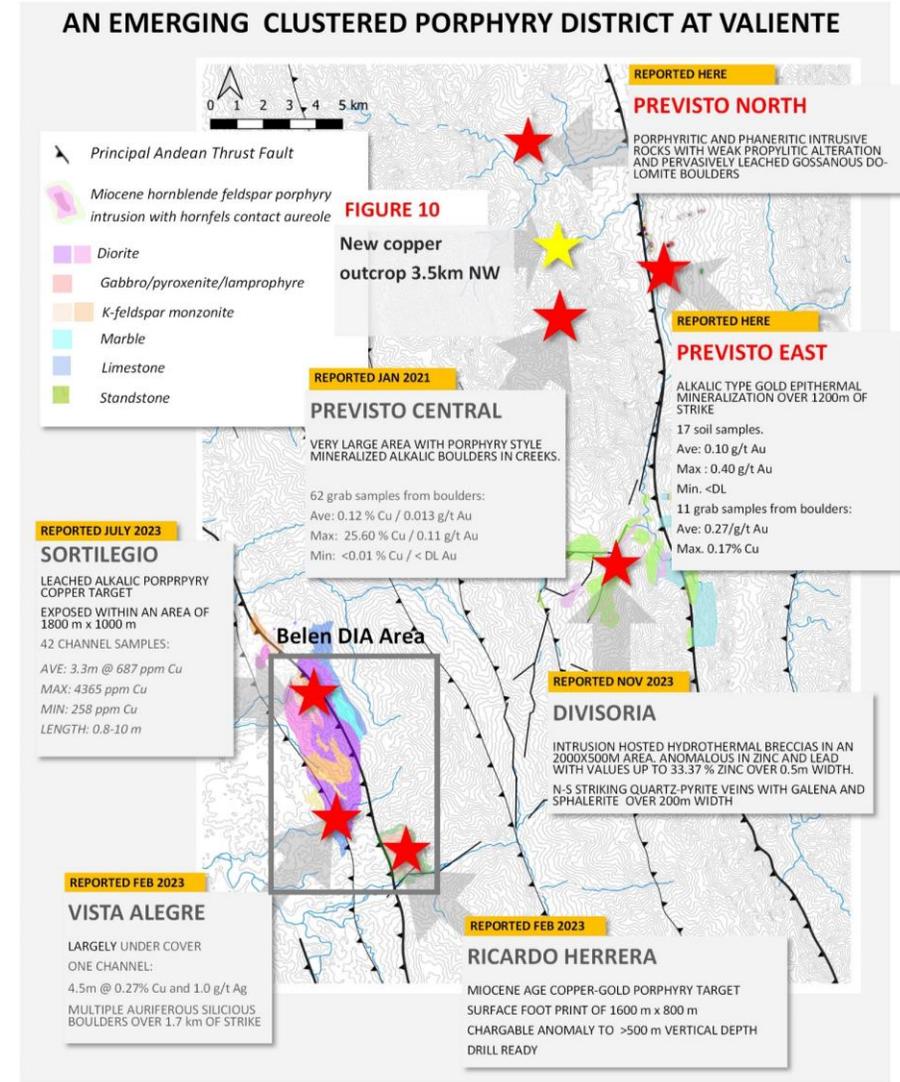
- ✓ The Valiente project is a new a porphyry-epithermal belt discovered by Hannan in 2021 in the central eastern Andes.
- ✓ Cluster of 18 Miocene porphyry intrusions from calc-alkaline to alkaline character across 150 km by 40 km belt
- ✓ Hannan's total tenure 1001 sqkm
- ✓ Plan to sequentially derisk, 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.

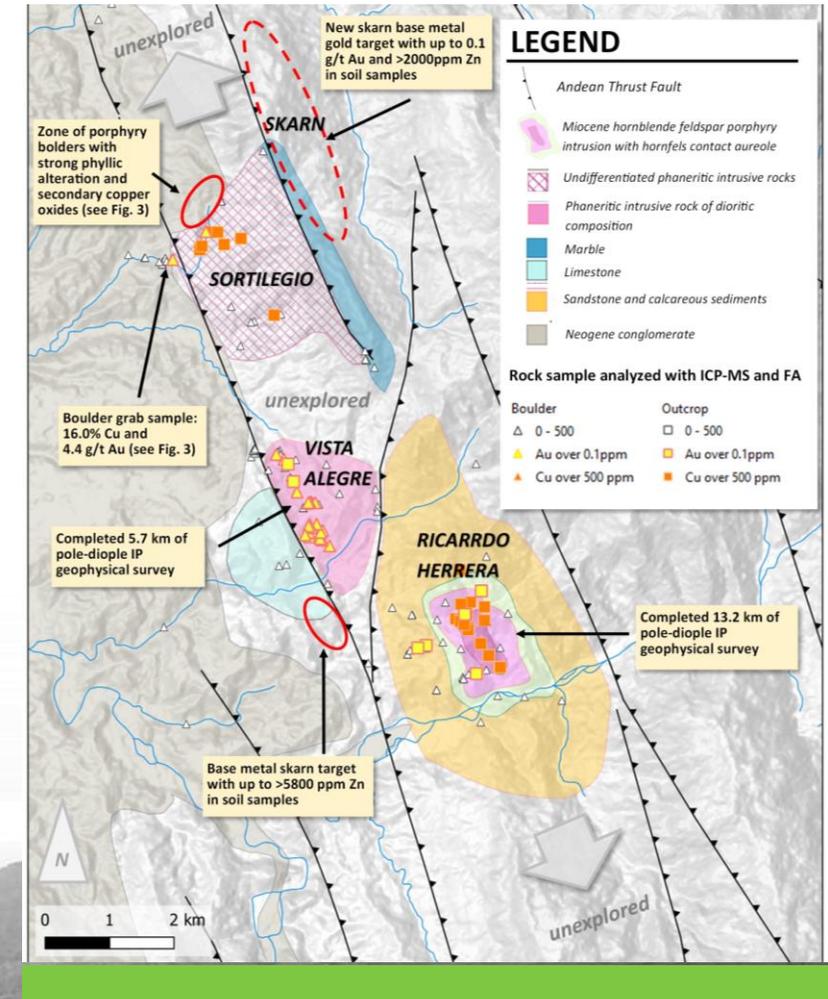




# Peru – Valiente Belen Prospect

**Maiden program is permitting multiple targets over 17 x 4 km corridor**

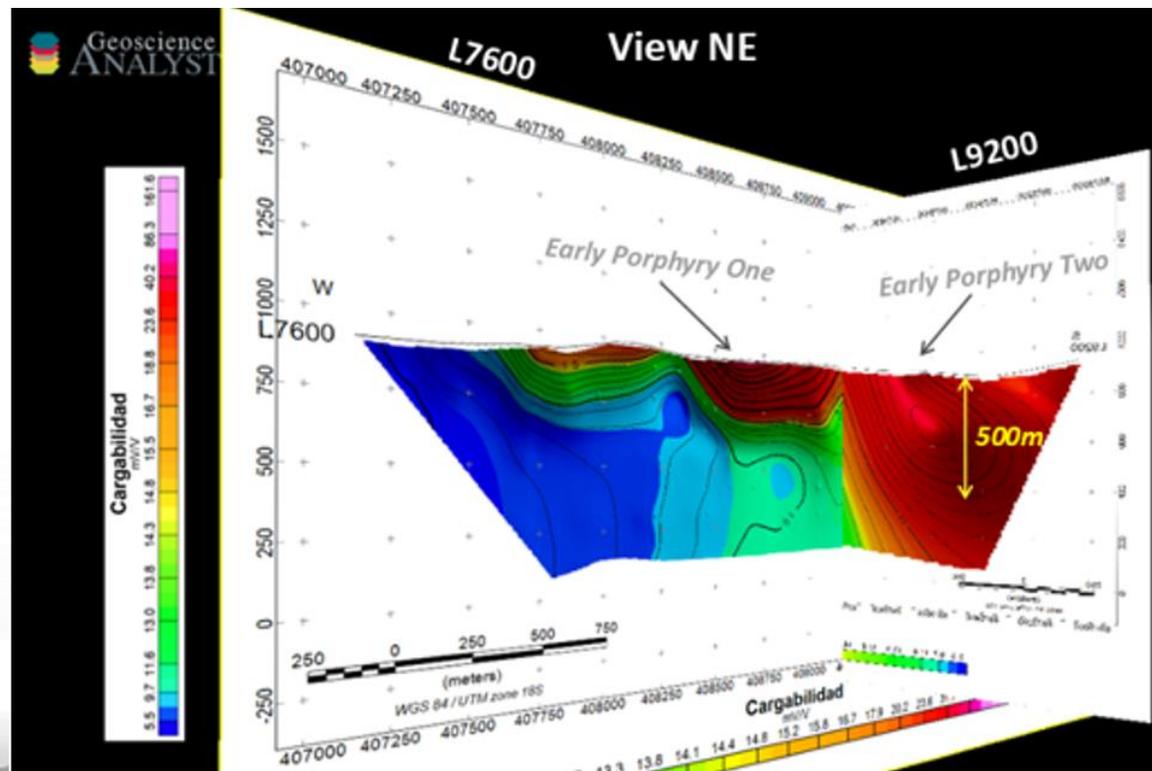
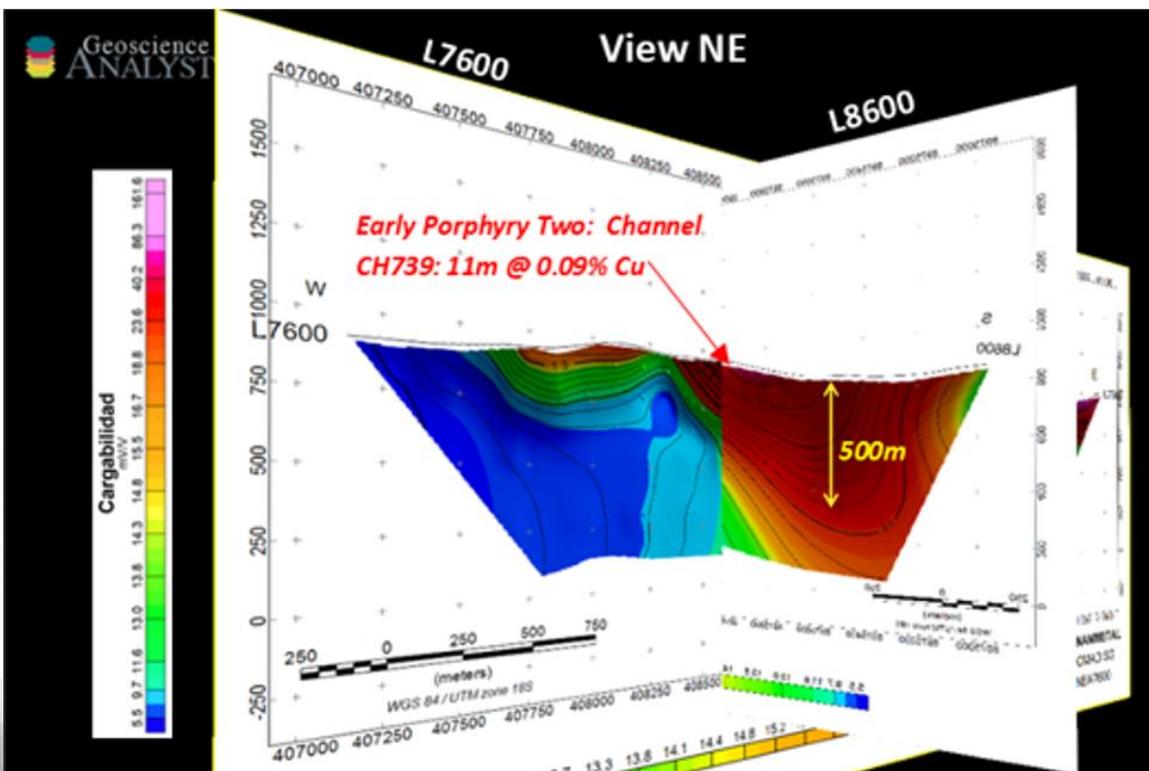
- ✓ Ricardo Herrera: leached copper-gold porphyry, with well-developed quartz veining at upper topographic levels and evidence for an enriched chalcocite
- ✓ Vista Alegre: 1.8 km long gold-bearing epithermal target area identified by large gold mineralized boulders of quartz-pyrite and iron oxides as well as strongly gold anomalous soil samples, IP
- ✓ Sortilegio: high-grade system with assays up to 16.0% Cu and 4.4 g/t Au from a porphyry





# Peru – Valiente Ricardo Herrera Cu-Au Porphyry Target

The IP Pole-Dipole geophysical survey defined a larger combined chargeable and resistivity zone over an area of 800 m by 600 m on surface, and to at least 500 m depth, to the maximum depth limits of the survey.





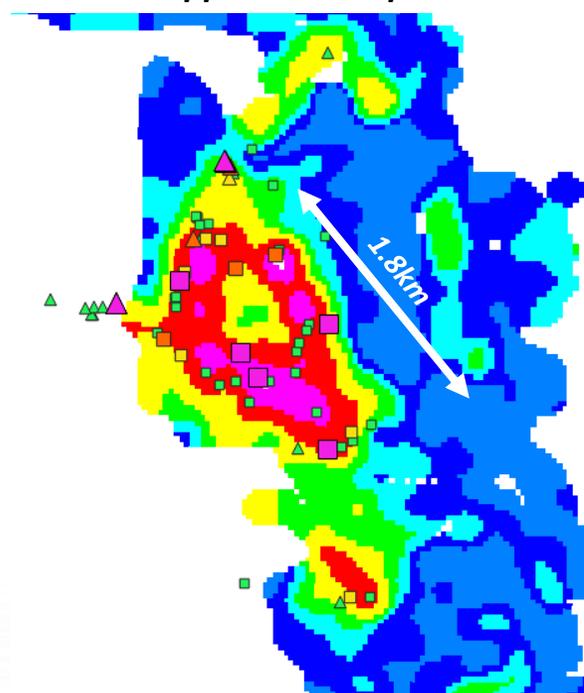
# Peru – Valiente Belen Prospect

## Channel results

- ✓ 71 channels completed to date in creeks where best exposure of bedrock is exhibited.
- ✓ Total length sampled: 449m
- ✓ Channel sampling were focused on 6 core zones where the intensity of stockwork veinlets was the greatest.
- ✓ 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



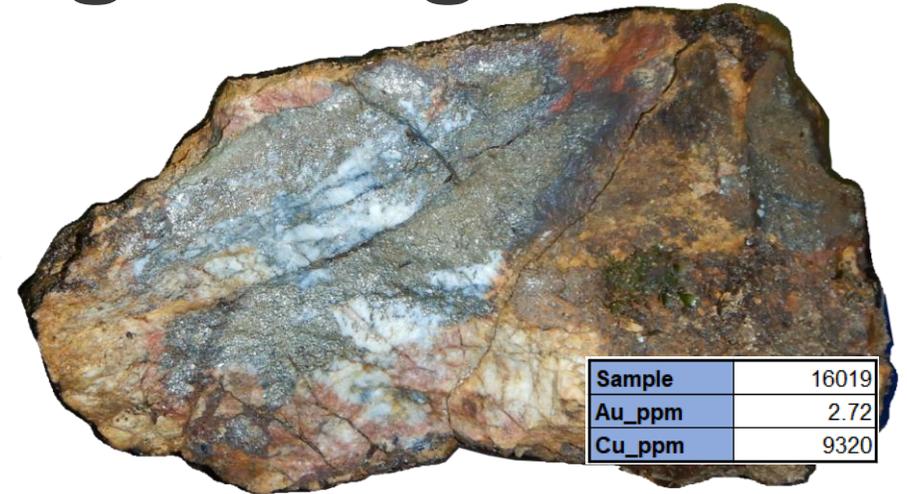
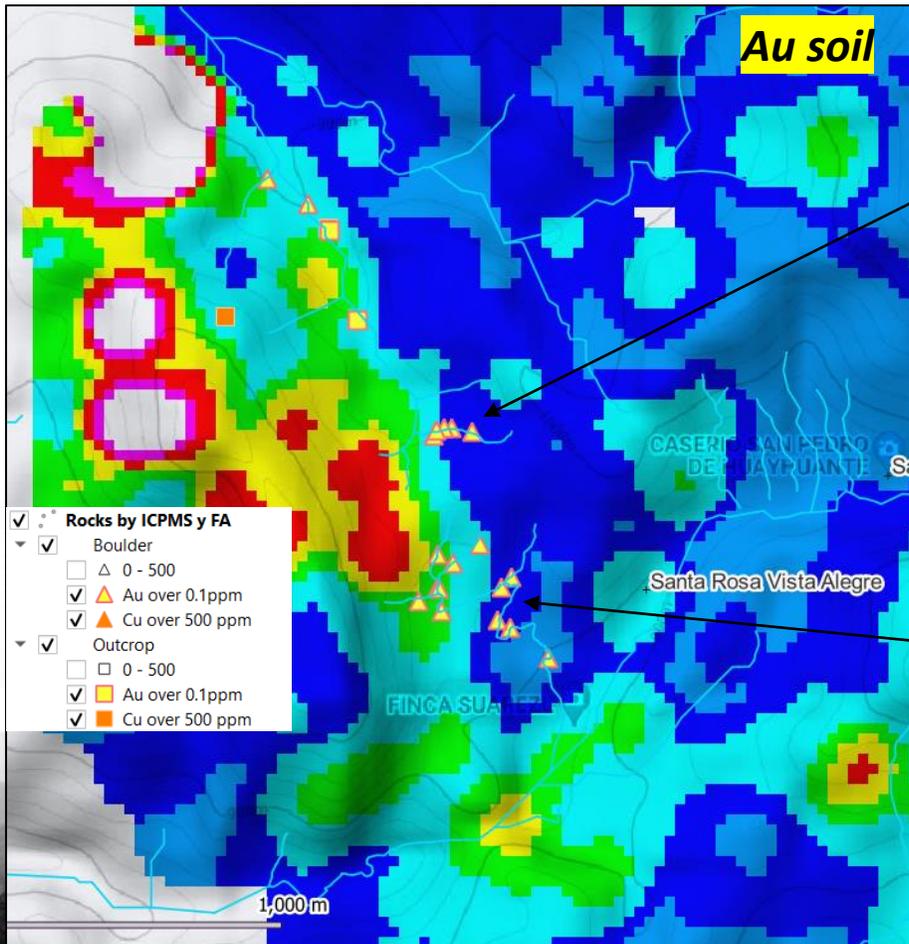
Results Copper soil samples



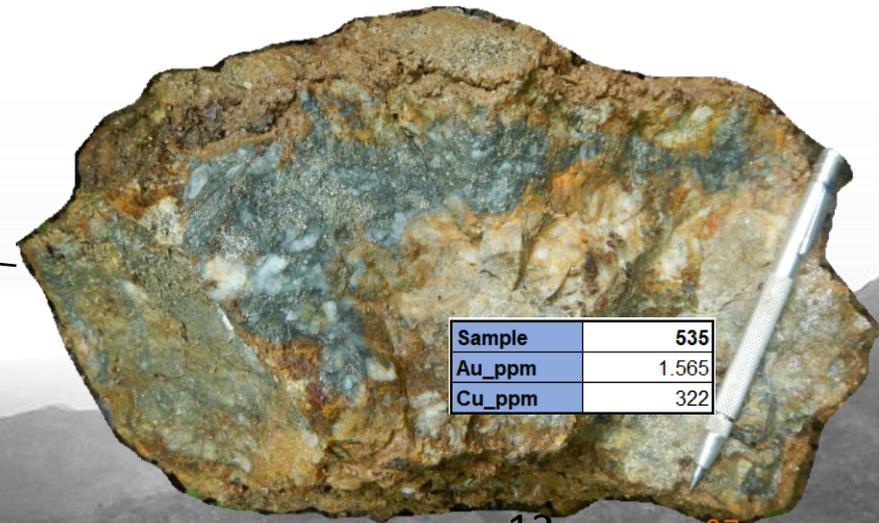


# Peru – Valiente Vista Alegre Target

Epithermal gold target with combined 3km of strike



Sample	16019
Au_ppm	2.72
Cu_ppm	9320



Sample	535
Au_ppm	1.565
Cu_ppm	322

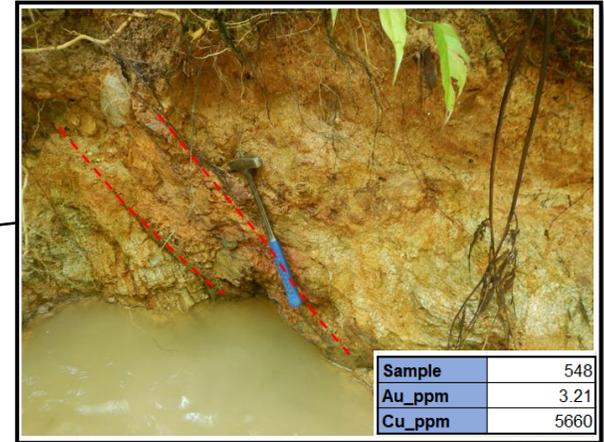
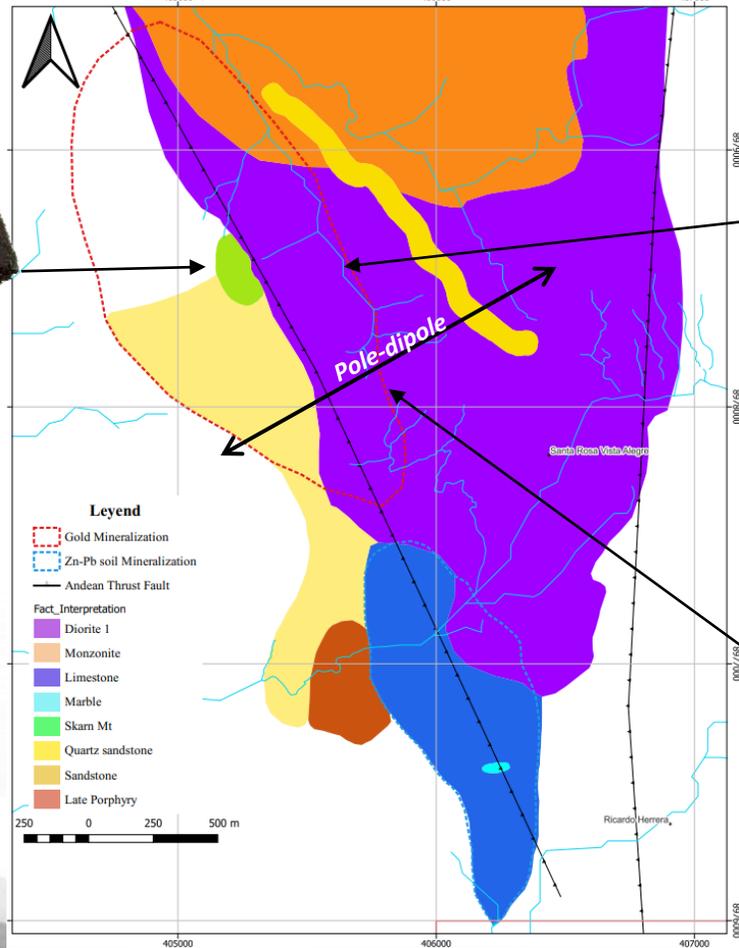


# Valiente – Belen Zone – Vista Alegre Target

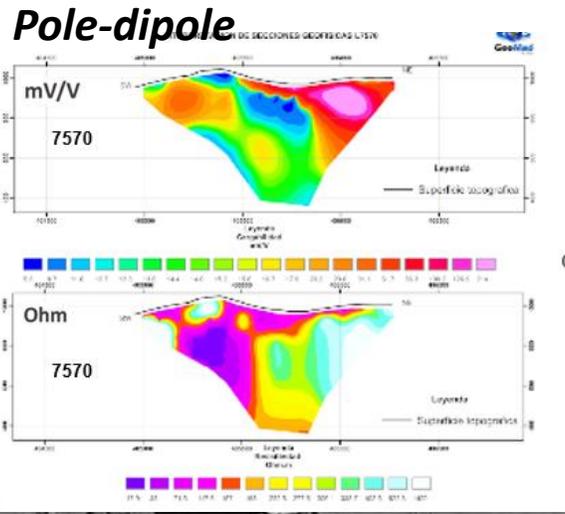
Local geology



Sample	14001
Cu_ppm	257
Au_ppm	0.011
Zn_ppm	109



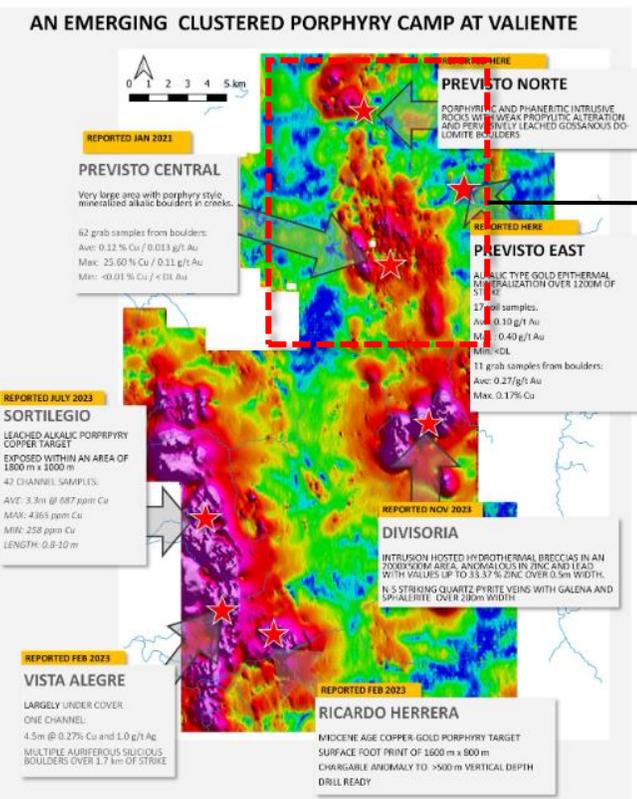
Sample	548
Au_ppm	3.21
Cu_ppm	5660



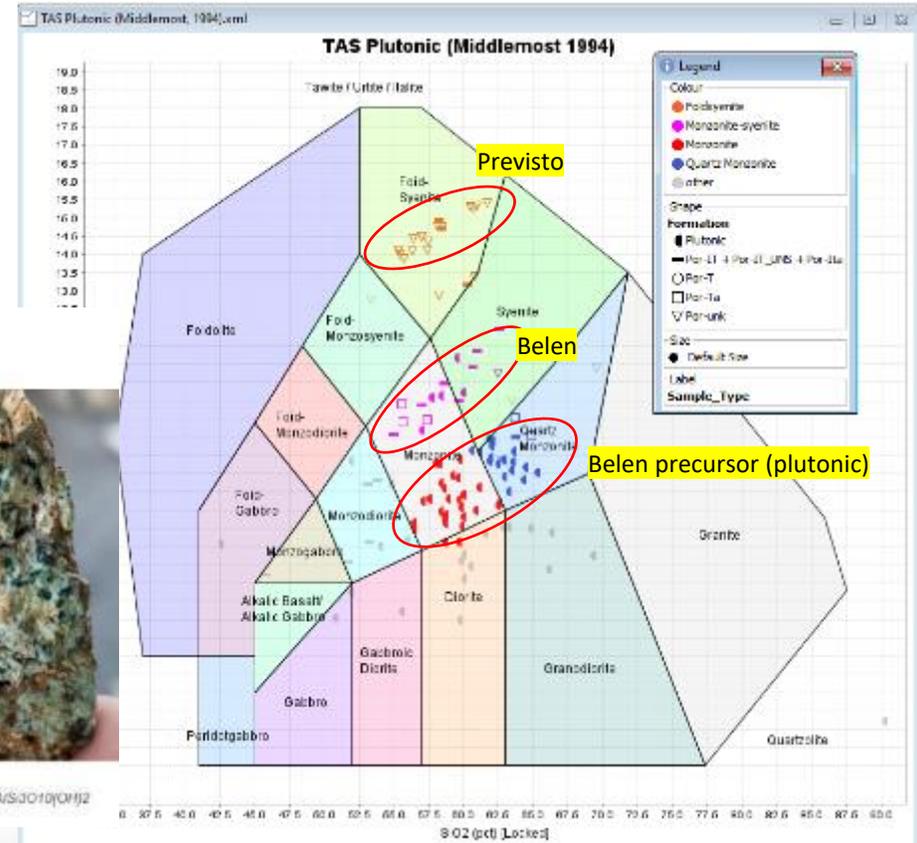
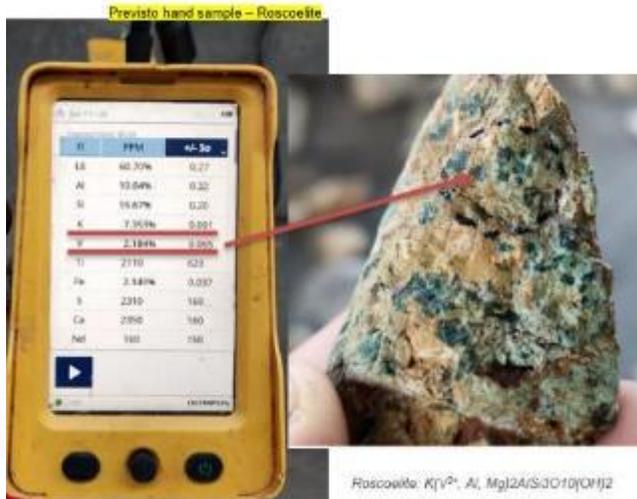
Sample	711
Au_ppm	1.165
Cu_ppm	6690



# Valiente – Previsto Target

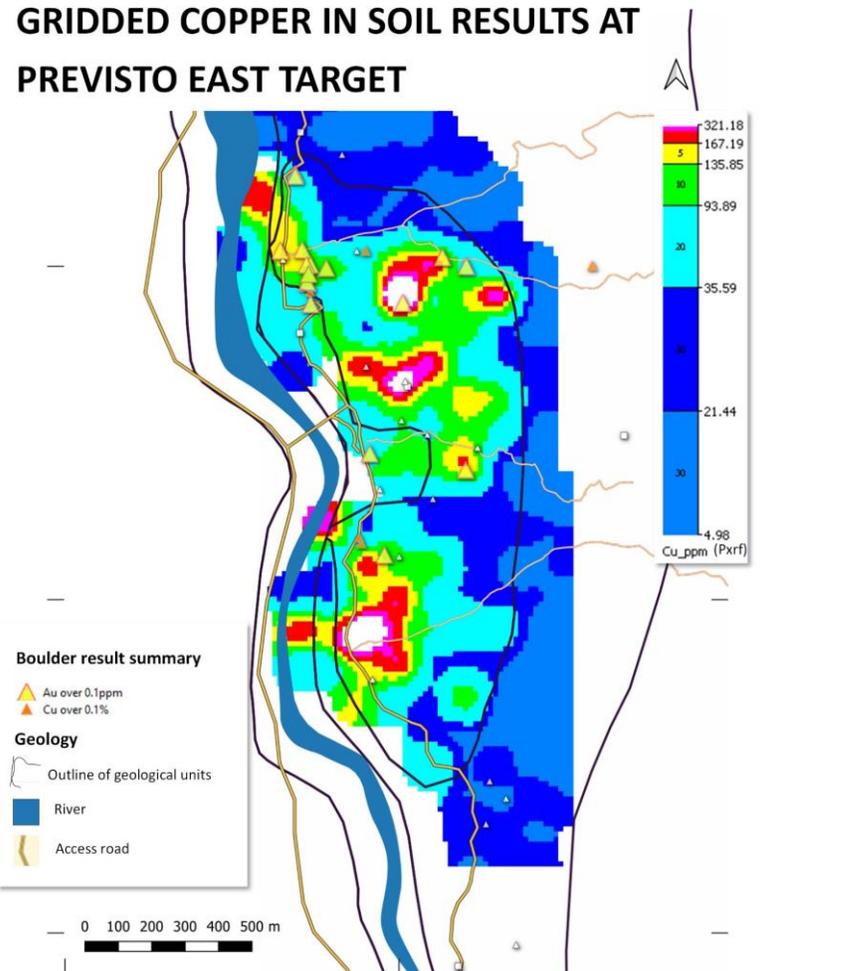
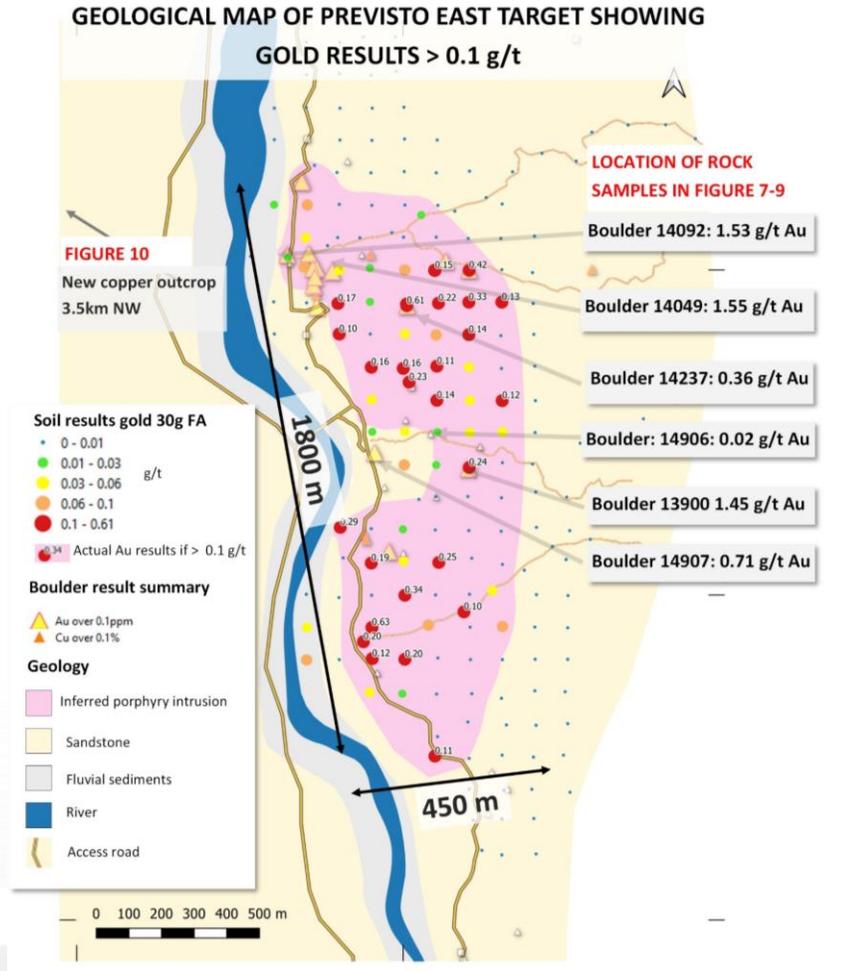


Litho-geochemistry distinguish this target from the Belen zone with an alkaline composition of the porphyry stocks.





# Valiente – Previsto Target





# Peru – San Martin Cu-Ag Project

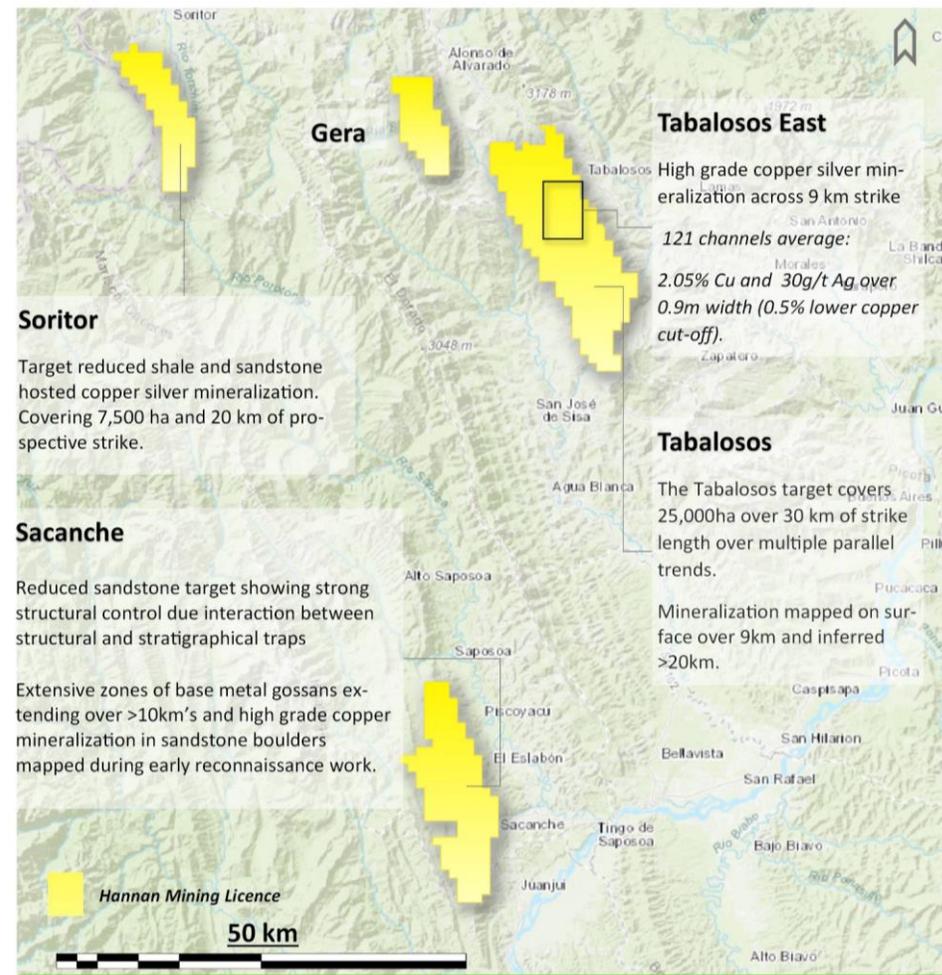
## Reduced Sandstone Target Style

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

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

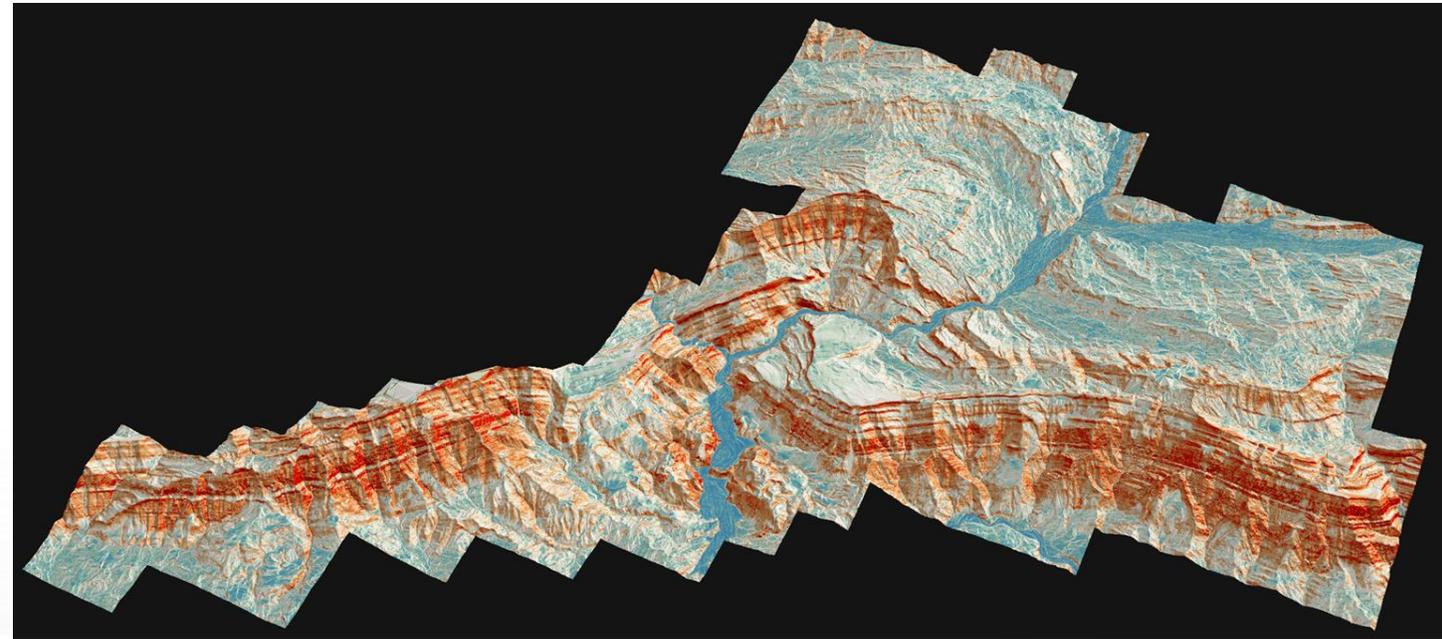
**An emerging sediment hosted copper basin**

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

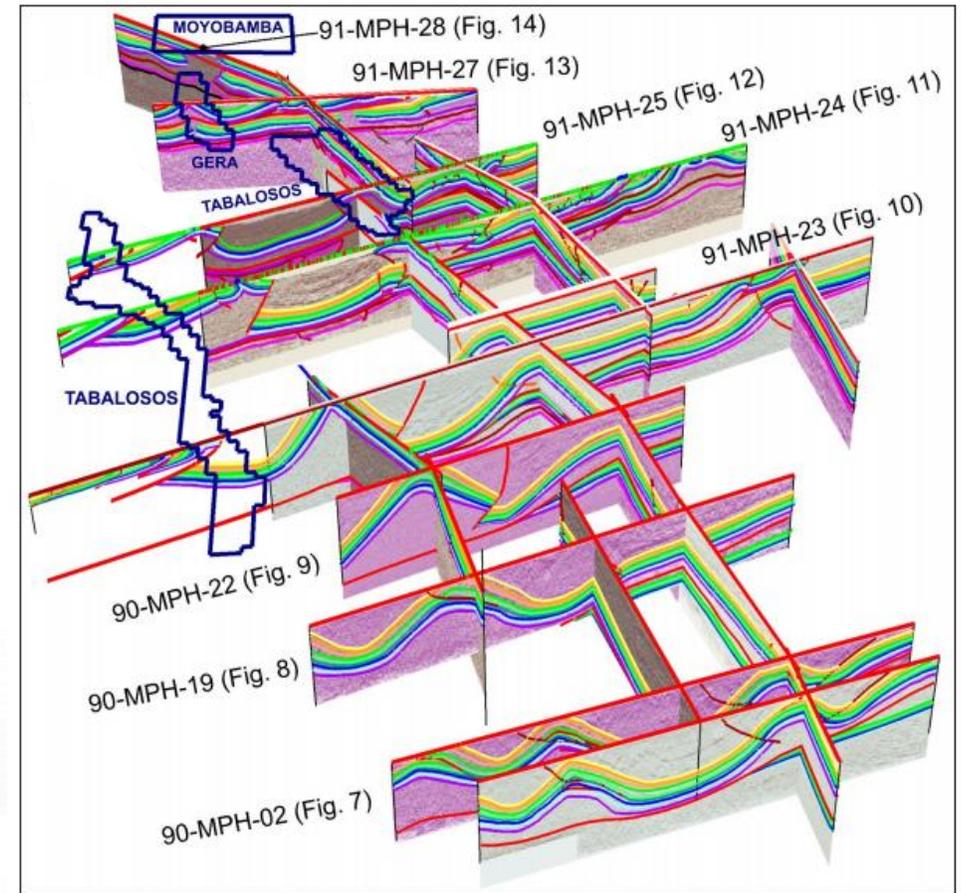
## Geological de-risking

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)*



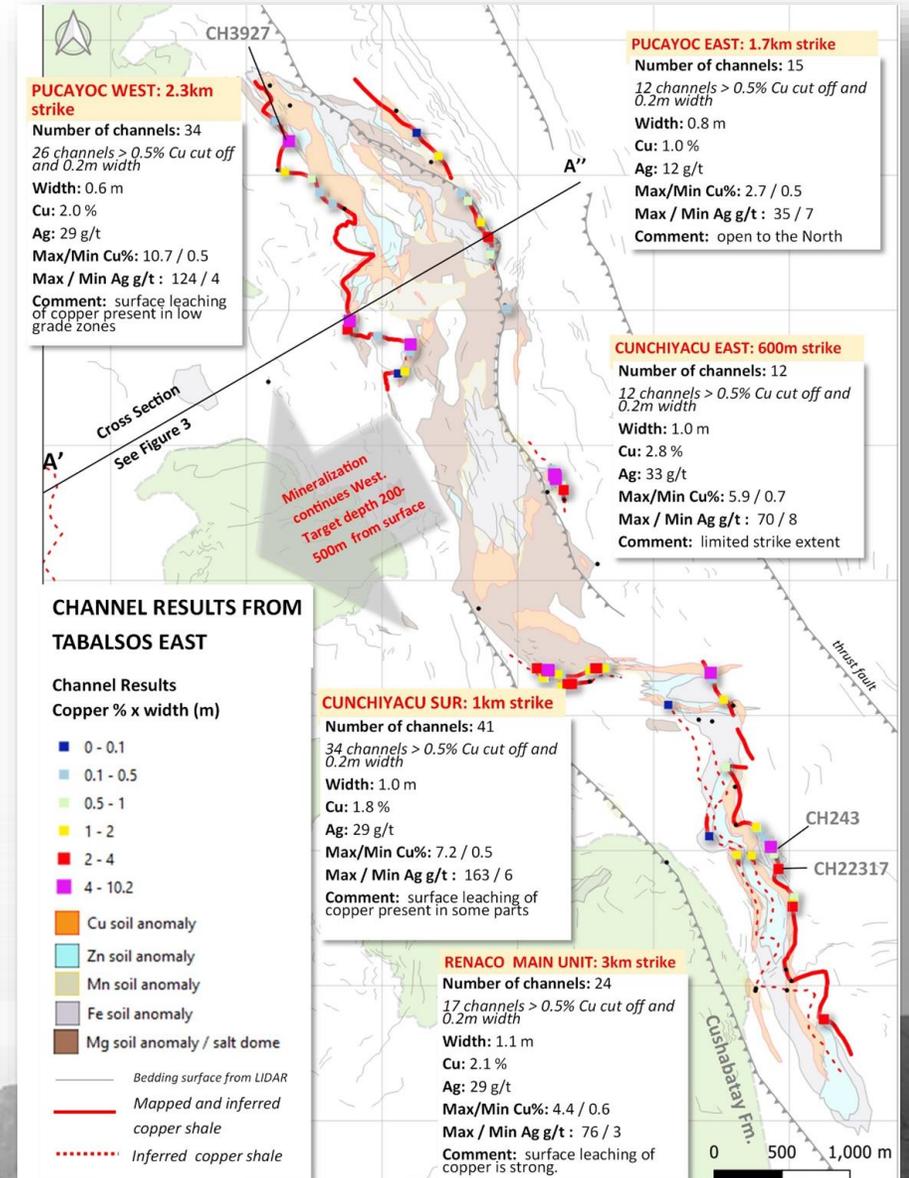
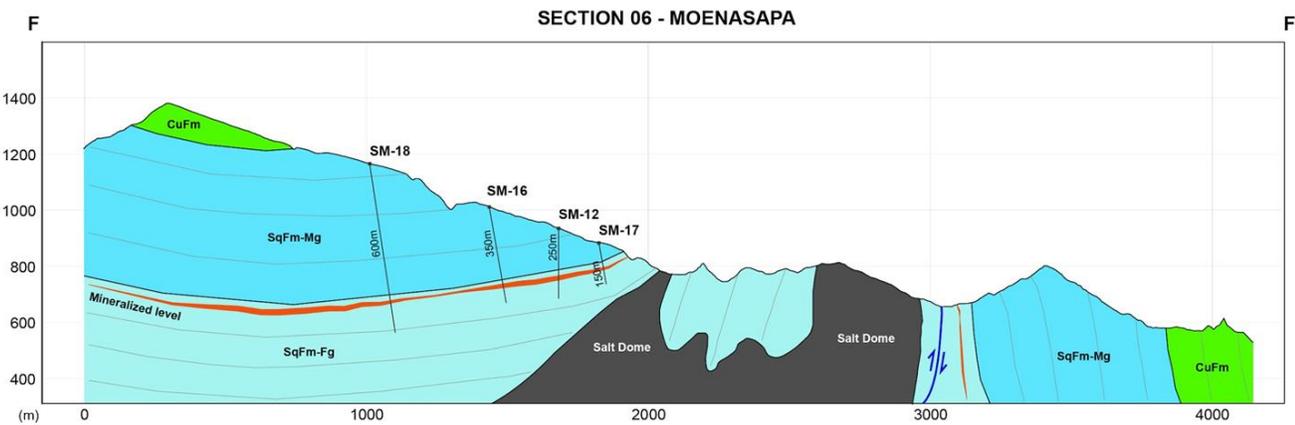


# Peru – San Martin

## 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

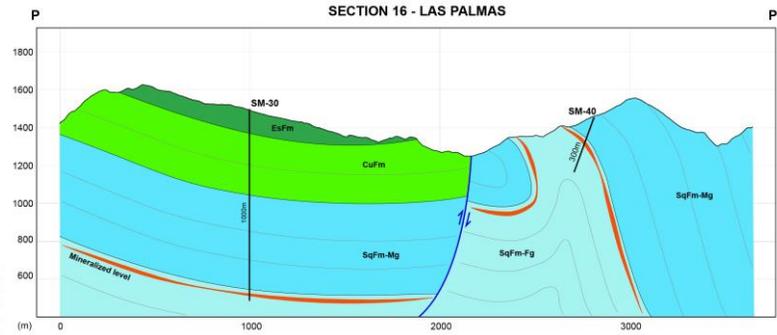
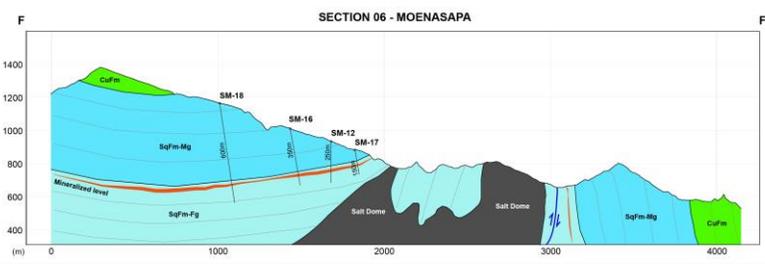
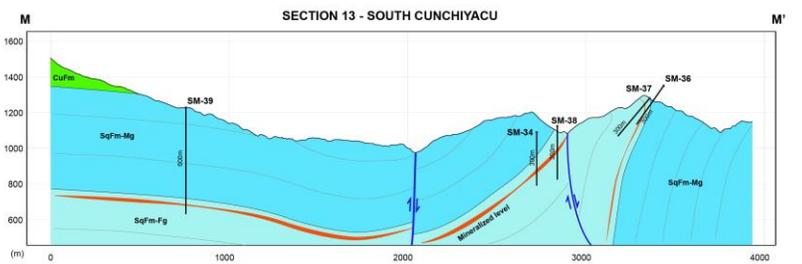
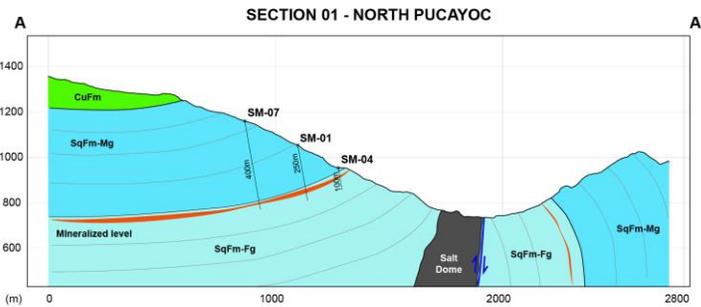
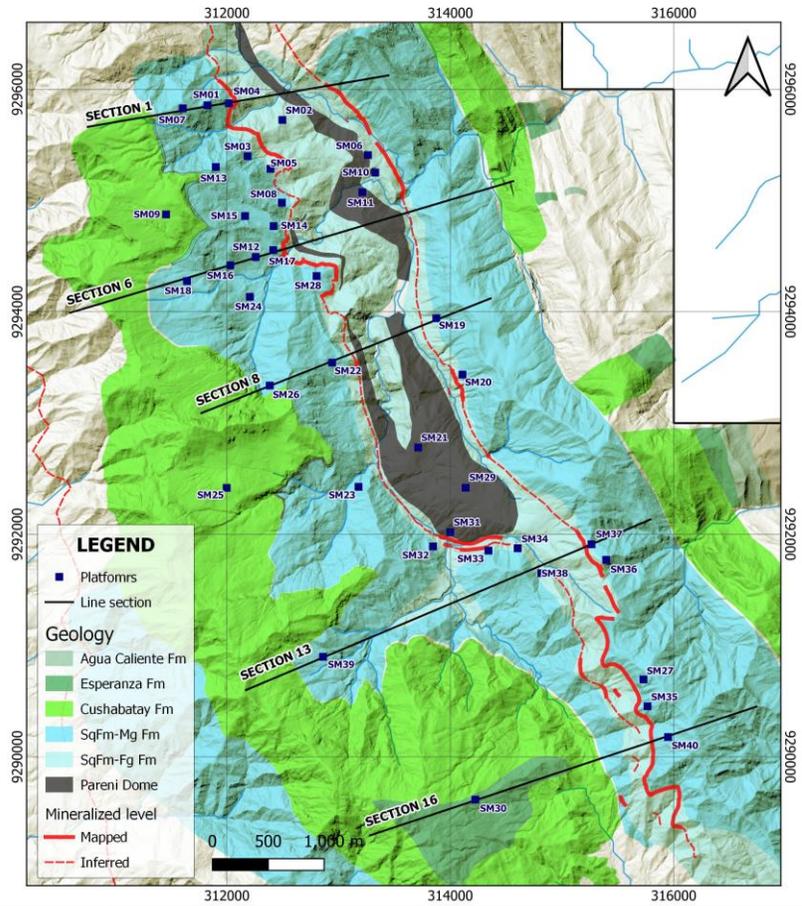




# Peru – San Martin

## Drill Program 2024 – Q2

GEOLOGICAL LINE SECTIONS - DIA TABALOSOS

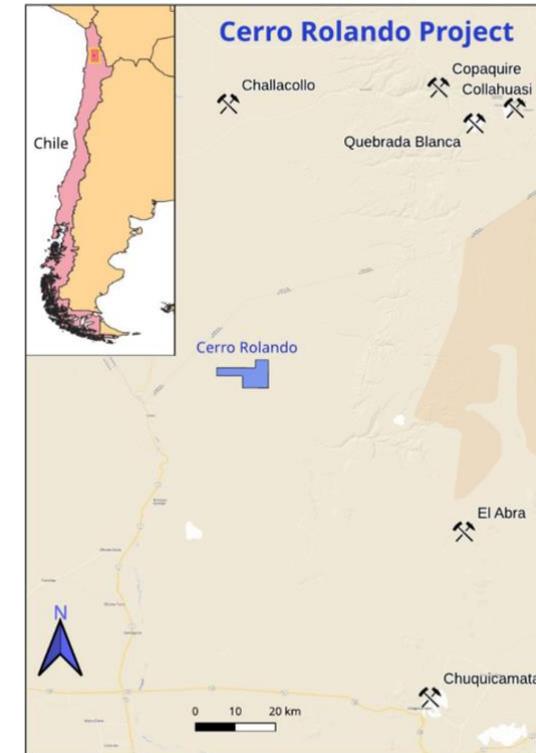
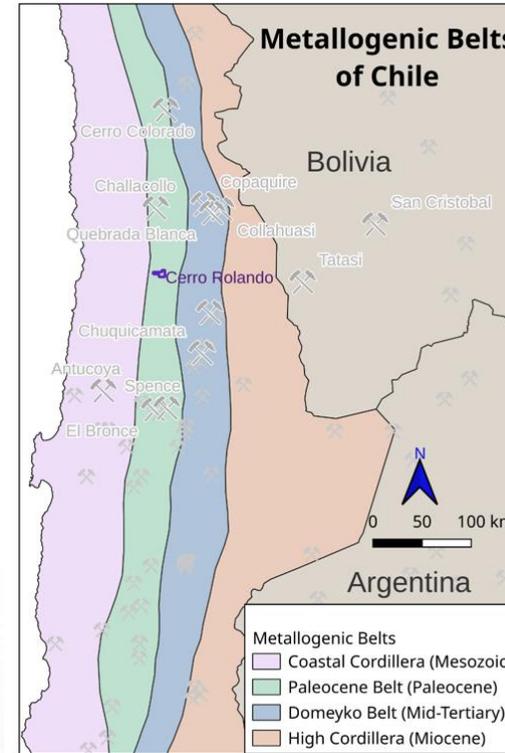




# Chile – the Cerro Rolando Porphyry Project

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

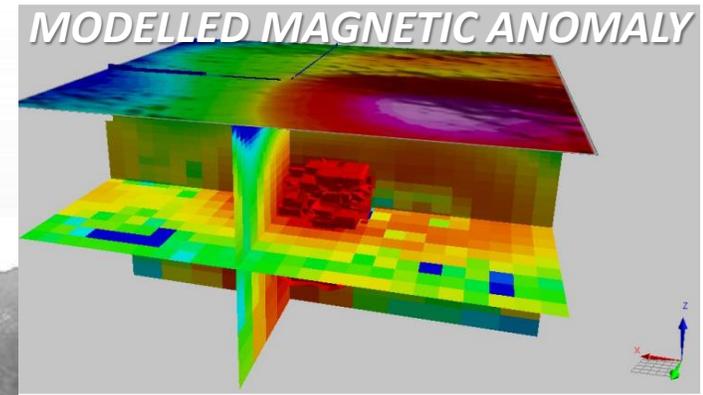
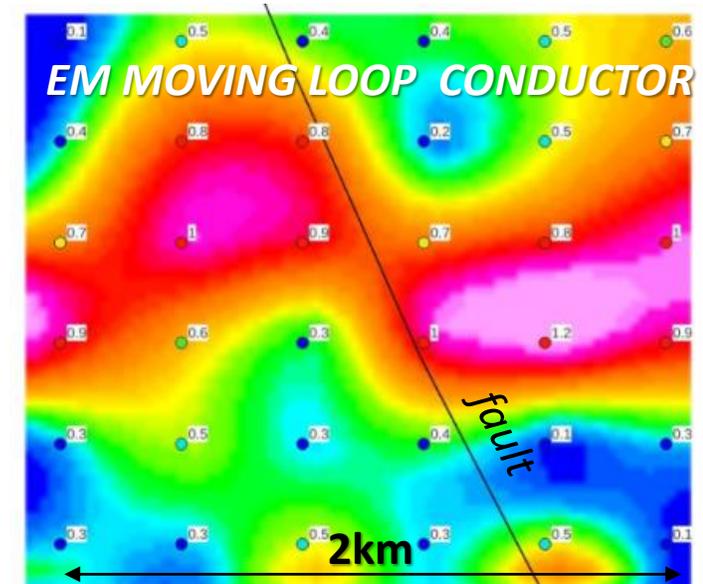
Grass root opportunity in worlds premier copper province

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.

Micro drill program in Q2 2024 to test model



# Hannan in 2024



## Q1-Q4 VALIENTE – 100 % HANNAN

DRILL PERMITTING IN PROGRESS  
ACTIVE TEAM EXPLORING PREVISTO WEST  
ESTABLISH MULTIPLE DRILL AREAS OF COPPER-GOLD  
TARGETS OVER THE NEXT 5 YEARS

## Q2 - SAN MARTIN PERU

2000m DRILL PROGRAM JV WITH JOGMEC -  
FULLY FUNDED. TARGETING COPPER SILVER

## Q2 – CERRO ROLANDO CHILE

MICRO 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

HANNAN METALS LTD  
INVESTOR RELATIONS (CANADA)



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