



Hannanmetals

COPPER | SILVER | GOLD PERU

*DEFINING LARGE MINERALIZING SYSTEMS
IN PERU'S NEW FRONTIER AREAS*

CORPORATE PRESENTATION DECEMBER 2021



Hannanmetals

TSXV : **HAN**

OTC: **HANNF**

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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.



Overview

1. Hannan is a first mover in the highly prospective sub-Andean region of Peru
2. Secured dominant land positions in:
 - Huallaga Basin - San Martin Project for sediment hosted copper-silver, and
 - Pachitea Basin - Previsto Project for porphyry copper-gold
3. Top 10 tenure holder in Peru
4. US\$35M joint venture agreement with JOGMEC on one third of ground position at San Martin
5. Looking to repeat plans for 2021 – exploring 1,357 sq km in own right

SOCIAL MANAGEMENT / ESG

- Mission Critical



Peru Top 10 Tenure Holder



"Some of the world's largest mining companies share our belief that big grassroots discoveries are best made within big land positions"

Rank	Owner	sq km	Market Cap US\$M
1	FRESNILLO PERU S.A.C.	6816	5 800
2	SOCIEDAD MINERA VICUS EXPLORACIONES S.A.C. (AURANIA RESOURCES LTD)	4319	125
3	COMPANIA MINERA ARES S.A.C. (HOCHSCHILD MINING PLC)	4080	1 060
7	NEXA RESOURCES PERU S.A.A (incl COMPANIA MINERAL MILPO S.A.A)	3819	1 002
4	VALE EXPLORATION PERU S.A.C.	3776	110 340
5	COMPANIA DE MINAS BUENAVENTURA S.A.A.	3047	1 816
6	BHP BILLITON WORLD EXPLORATION INC. SUCURSAL DEL PERU	2968	194 164
8	NEWMONT PERU S.R.L.	2185	46 629
9	HANNAN METALS LTD	2154	27
10	MINERA BARRICK MISQUICHILCA S.A.	2151	35 674
11	RIO TINTO MINING AND EXPLORATION S.A.C.	1874	128 167

The top ten Peruvian tenure holders average US\$50B market capitalization and combined hold 18.0% of the tenure held in Peru

Top ranked Peruvian tenure holders at the end of April 2021, considering granted mining concession and application. The table highlights ranked area under tenure and market capitalization. Source: <https://geocatmin.ingemmet.gob.pe/geocatmin/>

Capital Structure



OTC Pink

INSIDERS:

SHARES ON ISSUE:

FULLY DILUTED:

RECENT PRICE:

MARKET CAP:

CASH:

ENTERPRISE VALUE:

HAN

HANNF

16%

91.2 M

111.4 M

C\$0.235 (3 Dec 21)

C\$21.4 M

C\$2.4 M

C\$19.0 M



	Price	No. of Securities	Total Securities
Stock Options			
Expiring November 14, 2021	\$0.10	701,000	
Expiring November 15, 2021	\$0.10	60,000	
Expiring January 23, 2023	\$0.25	3,545,000	
Expiring May 28, 2023	\$0.28	100,000	
Expiring July 21, 2023	\$0.44	250,000	
Expiring August 11, 2023	\$0.455	250,000	
Expiring September 4, 2023	\$0.13	250,000	
Expiring October 8, 2023	\$0.365	100,000	
Expiring December 1, 2023	\$0.435	100,000	
Expiring June 14, 2024	\$0.285	275,000	5,631,000
Warrants			
Expiring February 18, 2022	\$0.30	12,517,429	
Expiring July 13, 2022	\$0.35	2,000,000	14,517,429

Directors & Officers



Michael Hudson (Chairman & CEO): *B.Sc. (Hons), GDipAppFin, FAusIMM, MAIG*



Lars Dahlenborg (President): *MSC. MAIG*



David Henstridge (Director): *B.Sc. (Hons), FAusIMM, MAIG, MGSAust*



Georgina Carnegie (Director): *B.Com, AM Harvard*



Ciara Talbot (Director): *B.Sc. (Honours)*



Nick DeMare (Director): *CPA, CA*



Mariana Bermudez (Corporate Secretary)

Hannan is managed by a group with careers built in the exploration industry.

In recent years, the group has raised more than US\$100M for European and Peruvian exploration and development.

Hannan management is highly experienced with a long history of working in Peru.

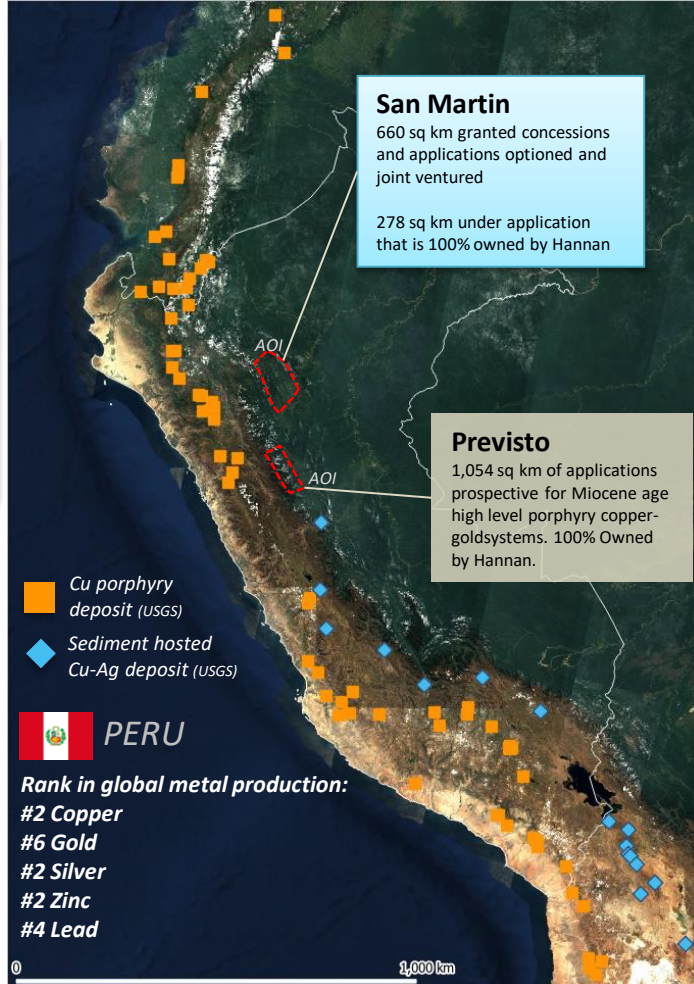
Hannan in Peru

SAN MARTIN

- JV with the option to earn up to a **75% beneficial interest in the San Martin Project by spending up to US\$35,000,000** to deliver to the joint venture a feasibility study on 660 sq km

PREVISTO

- At **Previsto**, 1,054 square kilometres of mining concession applications prospective for back-arc Miocene age porphyry copper-gold systems in central Peru





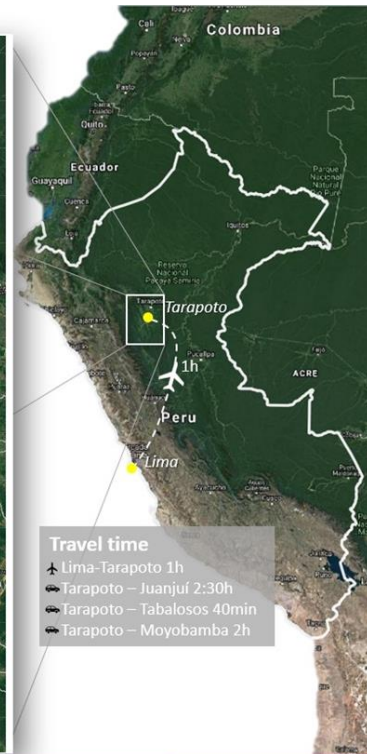
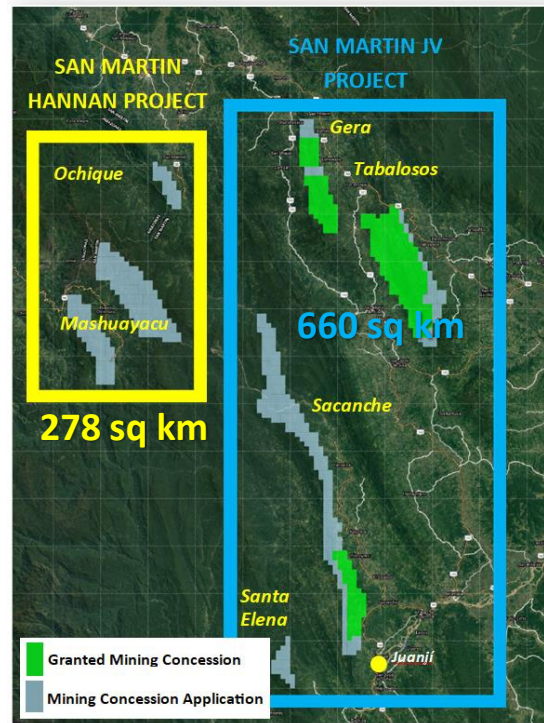
WHY SED- HOSTED COPPER IN THE ANDES?

- **Multiple failed rift basins** formed during the breakup Pangea.
- Overlain by **intramountain and foreland basins** of Tertiary age. Now exposed due to Andean inversion.
- **Cu-Ag mineralization** focus at the J-C boundary, a basin redox boundary and unconformity.
- The mineralized **window is ~500m wide**
- **Target styles** include all sub-classes of SSC deposits
- **At San Martin Project** the mineralization has been basin wide.
- Historically very little exploration.

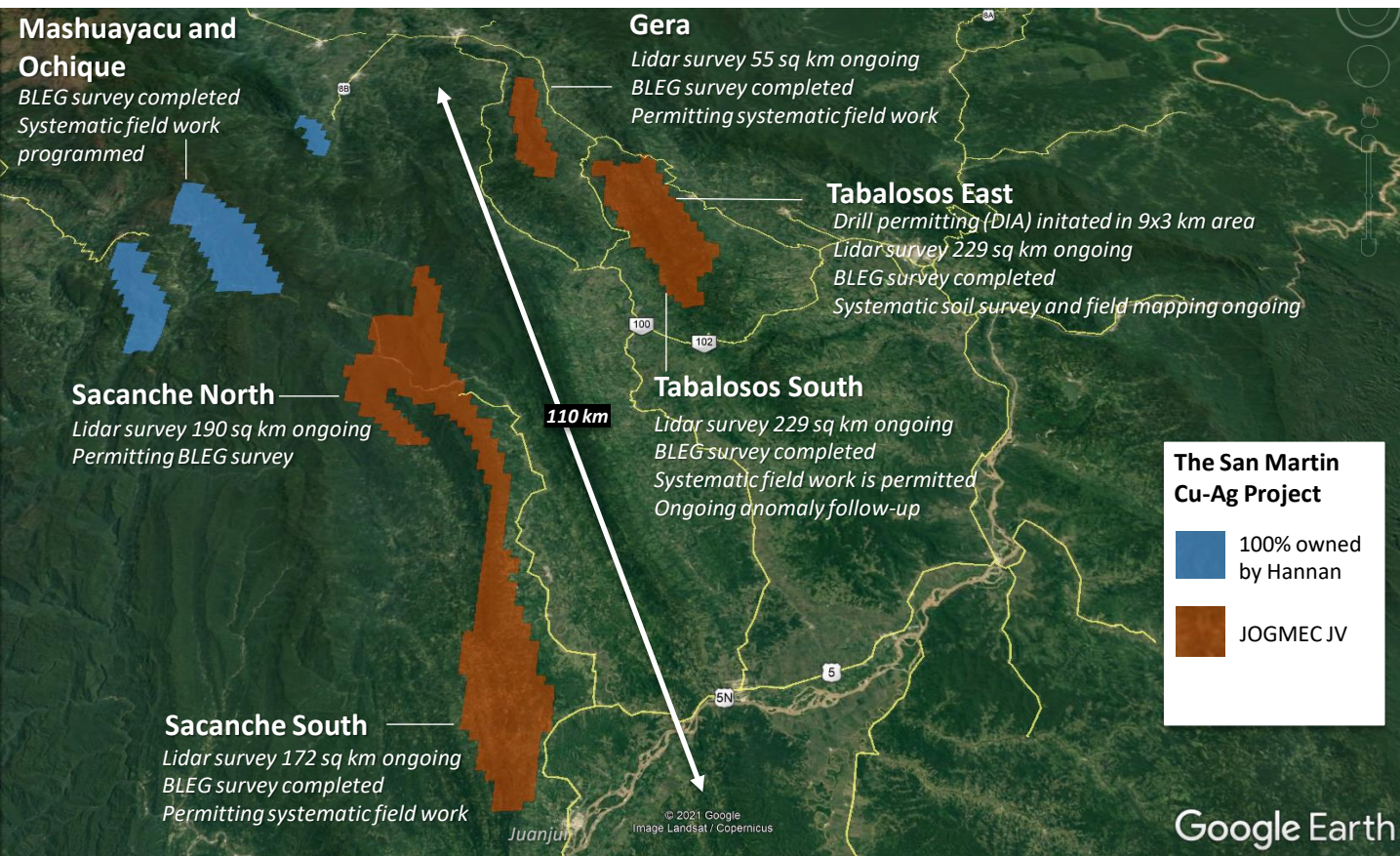
San Martin Sediment Hosted Copper-Silver



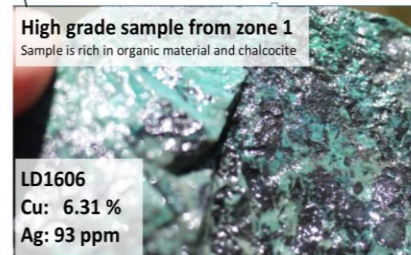
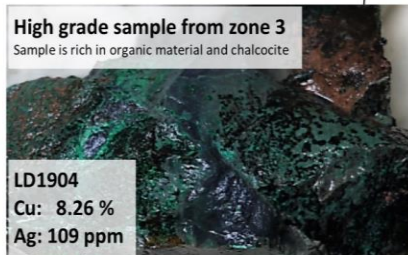
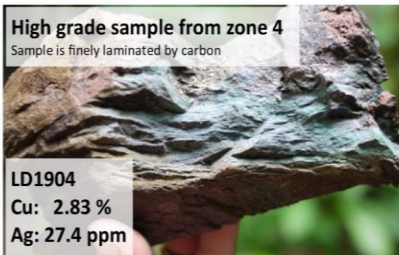
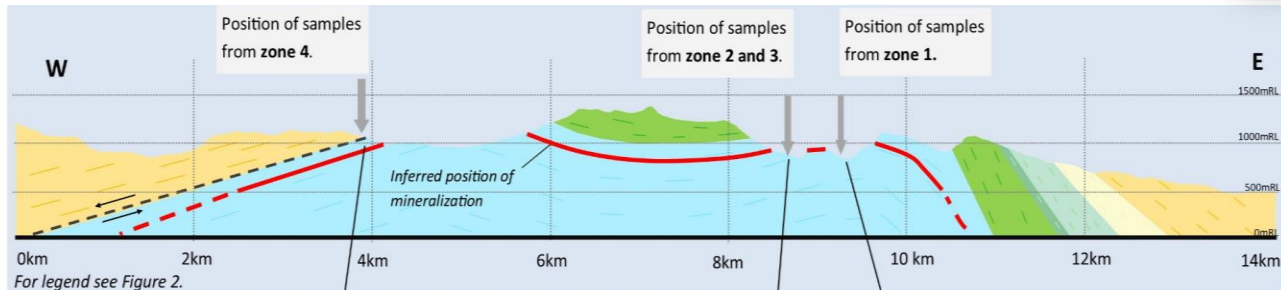
- ✓ Well defined search space
- ✓ Basin wide mineralizing process
- ✓ High grade Cu-Ag mineralization in 500m wide stratigraphic window



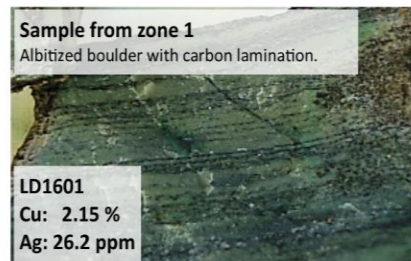
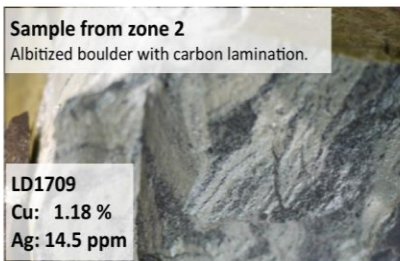
Overview of ongoing exploration 2021



Tabalosos – High grade Cu-Ag



Copper-Silver Mineralization Tabalosos



Style of mineralization

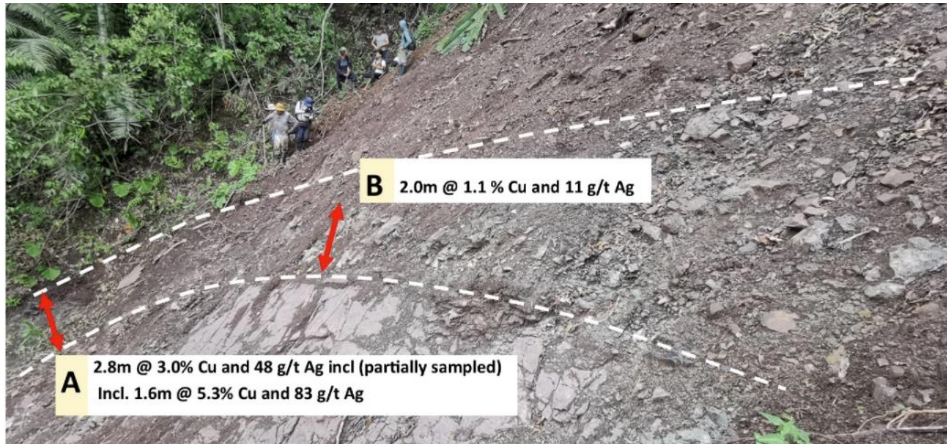


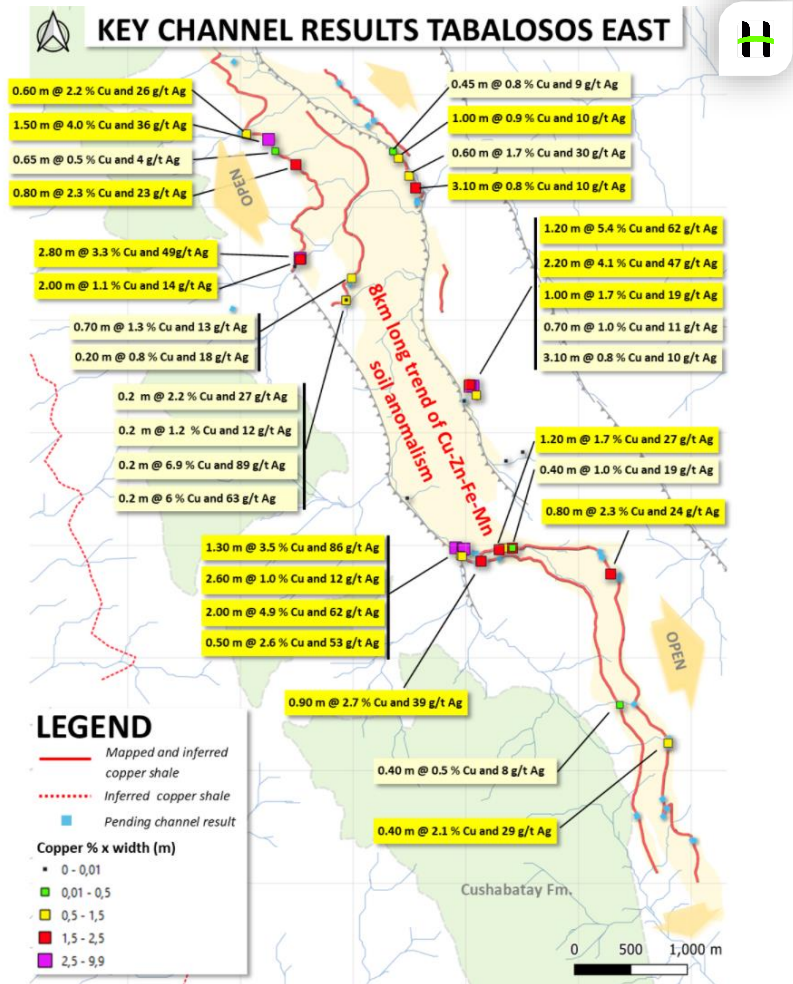
Photo of the mineralized outcrop reported here. Both zones are partially sampled and assay results from the full zone are pending. The outcrop was discovered in a recent landslide and have previously been covered by a thin soil layer. Distance from A to B is 10 meters and the total length of the exposed zone is >30 meters.

- Characterized by “sulfur poor” copper minerals such as chalcocite and cuprite.
- The oxidizing Cu-Ag bearing fluids have precipitated within reduced organic rich shale facies with minor diagenetic pyrite. Strong evidence of a basin wide mineralizing process with high grades seen in the same stratigraphic package over 100km.
- The host rock is of the upper part of the Jurassic age Sarayaquillo Fm.
- The Cu-Ag shale is controlled by a facies change where the typical red Sarayaquillo sandstone transitions to a finely laminated organic rich shale facies within a fine-grained altered/bleached ($\text{Fe}^{3+} \rightarrow \text{Fe}^{2+}$) rock package. Grades can be impressive, with the thickness of the higher-grade mineralized shale >3-4% Cu varying between 0.2-2m. The entire copper anomalous/bleached package is up to 5m thick.

Tabalosos E

Channel Sampling

- ✓ Demonstrating continuity over 24km
- ✓ <1% outcrop
- ✓ Average 1.0 metre @ 2.1% copper and 29 g/t silver using a lower cut of 0.5% copper



Context with Kupferschiefer



- ✓ Sediment-hosted stratiform copper-silver deposits are among the two most important copper sources in the world, the other being copper porphyries. They are also a major producer of silver. KGHM Polska Miedz's ("KGHM") three copper-silver sediment-hosted mines in Poland (the "Kupferschiefer") were the leading silver producer in the world and seventh largest global copper miner in 2020. Quoted resources in 2019 for KGHM were 1,518 Mt @ 1.86% copper and 55 g/t silver from a mineralized zone that averages 0.4 metres to 5.5 metres thickness.
- ✓ To provide context, Hannan's widths and grade (1.0 metre @ 2.1 % copper and 29 g/t silver) from 42 channel surface samples reported here at San Martin (lower cut 0.5% copper), within an area about 8 kilometre long and 1 kilometre wide, compare with those found during the initial modern-day drill discovery of the Kupferschiefer copper-silver deposits.
 - ✓ In 1957 the discovery drillhole (Sieroszowice IG 1) intersected 2.0 metres @ 1.5% copper at the depth of 657 metres.
 - ✓ In 1959 the Lubin-Sieroszowice deposit, based on the results from 24 drillholes contained 1,365 Mt @ 1.4% copper and 26 g/t silver in indicated resources, with a thickness ranging between 0.2–13.1 metres in an area about 28 kilometres long and 6 kilometres wide between 400 to 1000 metres depth.
- ✓ Hannan's sampling, to date, has been confined to surface channel sampling.

Tabalosos Soil Sampling

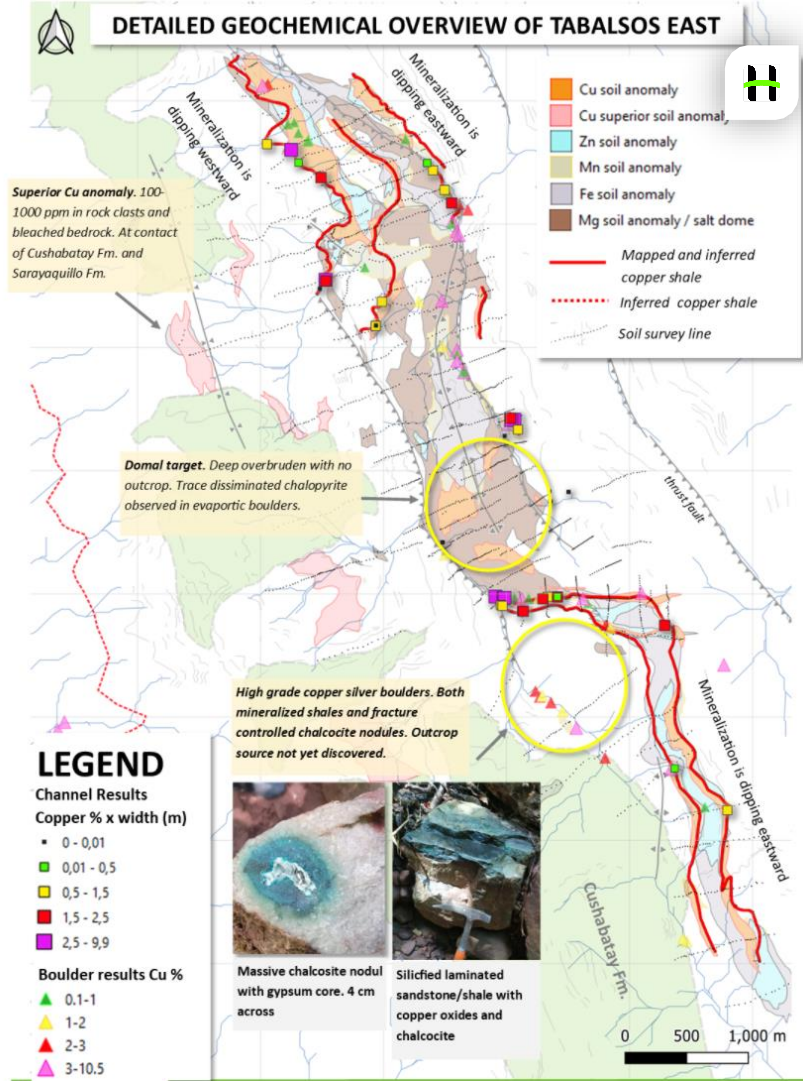


Soil survey:
2.5x6km area
~2500 sample points
125 to 250 m line spacing
10-20 m sample spacing

- ✓ Systematic soil survey tracking the Cu-Ag shale under the thin overburden. Less than <1% of the bedrock is estimated to outcrop.
- ✓ Rapidly and advancing the project with the best mobile analytical technology available at lower cost compared to commercial laboratories.
- ✓ In-house QAQC programs and multiple analyzer units have doubled the sample rate without compromising data integrity.

Tabalosos Soil Sampling Results

- ✓ Demonstrating mineral system over 24km
- ✓ <1% outcrop
- ✓ 2-3% of the 815 square kilometre area under the San Martin JV
- ✓ Discovering new zones undercover





Tabalosos Drill Planning - DIA

Hannan has approval from two local hamlets at Tabalosos to initiate work for an Environmental Impact Statement (Declaración de Impacto Ambiental, or "DIA") study.

The DIA is the primary environmental certification required to allow low impact mineral exploration programs, that include diamond drilling, to proceed in Peru;

The area for the DIA allows for 40 drill platforms and covers an area approximately 9 kilometres long and 3 kilometres wide (2,700 hectares);

Final DIA and other approvals are anticipated during early 2022.

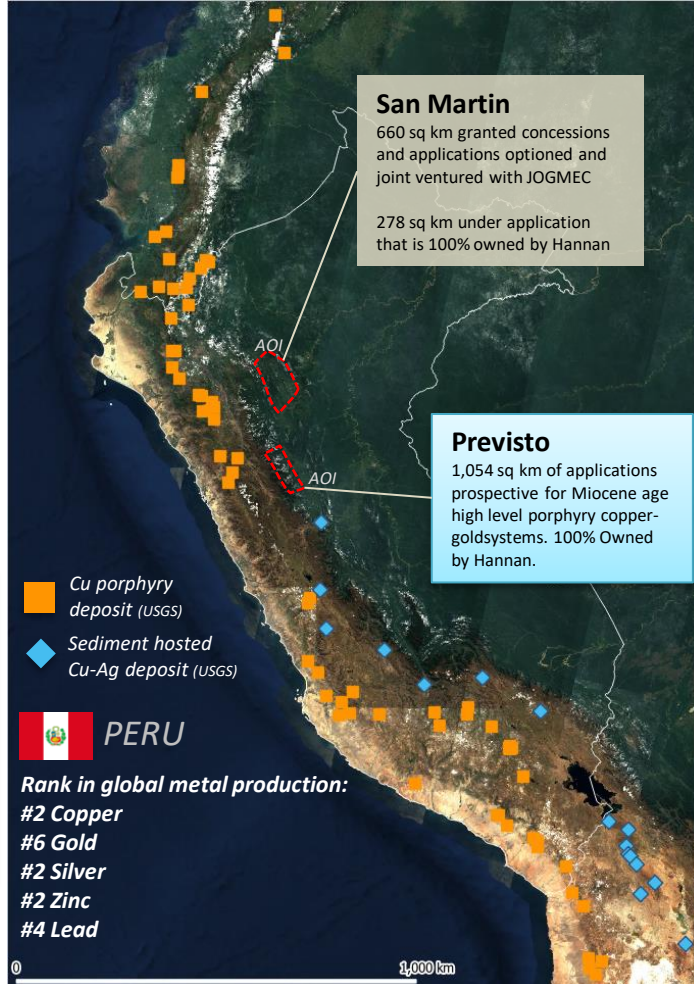
Hannan in Peru

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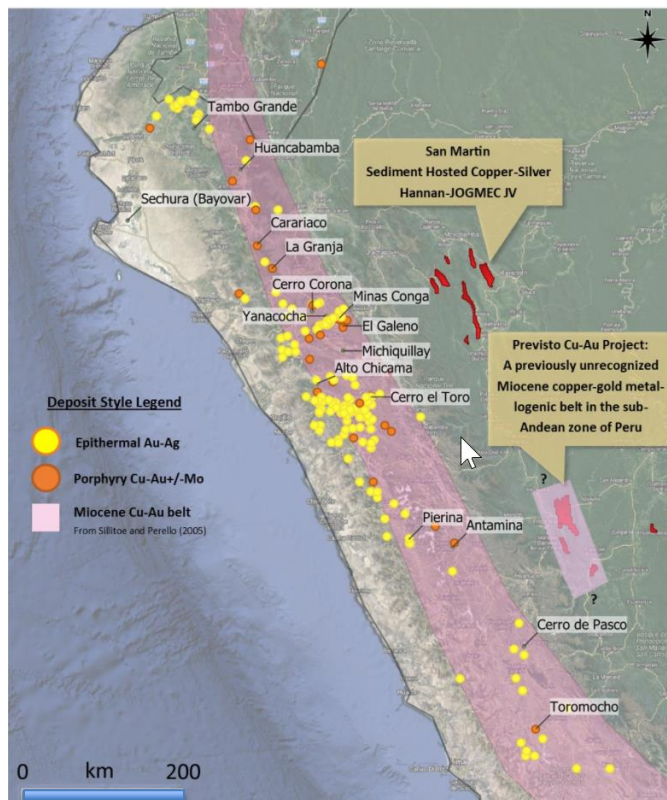
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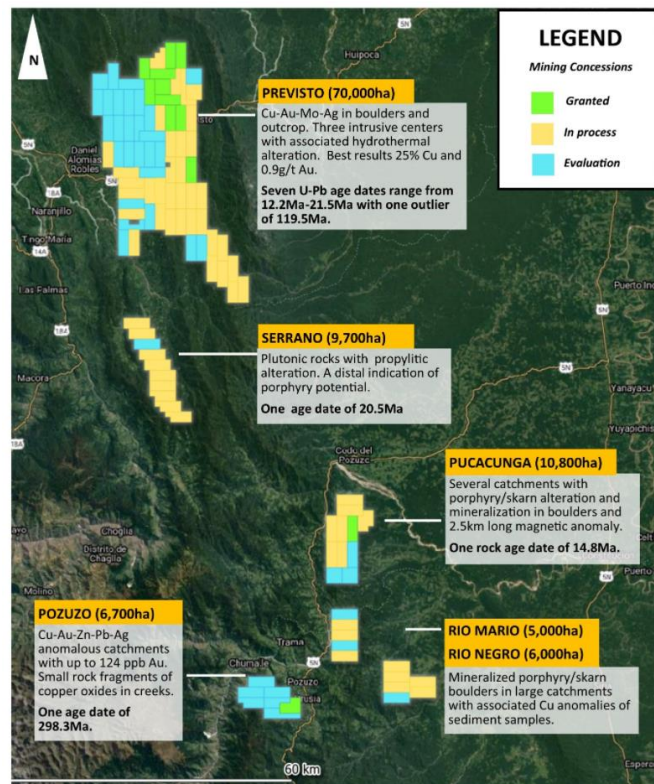
WHY BACK-ARC MIOCENE AGE COPPER GOLD?

- ✓ Back-arc settings are often overlooked in porphyry exploration due to distance from magmatic arc
- ✓ Long-lived crustal scale structures may “funnel” magmas hundreds of kilometers and porphyry deposits develop far inboard of the “conventional” settings.
- ✓ These are often high energy systems that can form big deposits such as Bajo de Alumbrera copper-gold porphyry in Argentina.
- ✓ The back-arc contains abundant reactive sedimentary rocks such as limestones, shales and evaporites.
- ✓ In Central Peru the largest porphyry deposits formed in the late Middle to early Late Miocene, in response to the change of subduction.
- ✓ Historically very little exploration.



Previsto Radiometric Dating

- ✓ Radiometric dating work by Hannan has identified a previously unrecognized Miocene copper-gold metallogenic belt in the sub-Andean zone of central Peru, with eight porphyry samples within an area of 140 by 50 kilometres yielding ages ranging from 21.5 Ma to 12.2 million years ("Ma"; early to mid-Miocene).
- ✓ This new district overlaps in age with the Miocene magmatic arc in the Western Cordillera of Peru, where some of Peru's largest porphyry copper+/-gold and epithermal gold deposits were formed at the same time. This work 're-draws' the map of where such deposits can be found and verifies Hannan's assumptions that Previsto represents a new search space in a country thought to be mature in its exploration potential.
- ✓ The case for "young" porphyry deposits located in a back-arc setting, that is to say, far inboard of their volcanic arc contemporaries is best exemplified by the case of Bajo de la Alumbrera (pre-mining measured resource 695 Mt @ 0.51% Cu, 0.66 g/t Au) in Argentina, which lies some 150 kilometres east of contemporaneous porphyry deposits in the Chilean Andes.



Hannan is a first mover and the opportunity is:

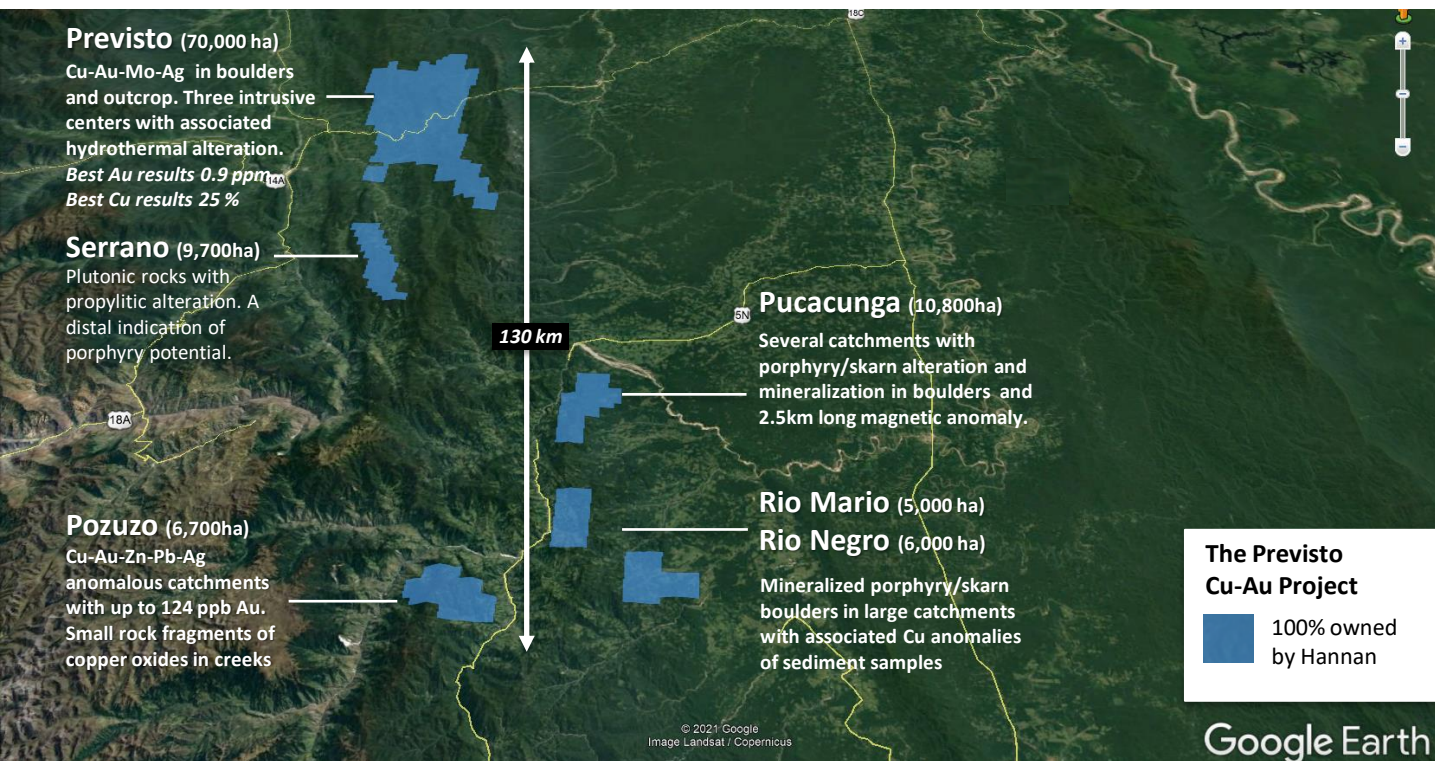
- ✓ First systematic stream sediment survey in a new metallogenic province of Peru covering 140x50 km;
- ✓ Rapid identification of "low hanging fruit" e.g. mineralizing system which are exposed on surface and with good access;
- ✓ Avoiding areas with protection overlays such as environmental or indigenous title;
- ✓ Currently building up a portfolio of 5-7 porphyry-skarn targets 100% owned by Hannan;
- ✓ No historic drilling or detailed geophysics known



Overview of the Previsto Cu-Au Project



All targets are early stage, applications are pending and observations are dominated by boulders with support in regional geophysics and stream sediments.



Styles of mineralization



Observations are of early nature and mainly based on boulders.

The Previsto project hosts porphyry and porphyry-skarn type mineralization.

Highest grades are currently from Previsto Oeste. Here multiple Cu mineralized boulders have been found which assay 0.05-0.2% Cu. Best results are 25 % Cu from a massive chalcocite float and 0.9 ppm Au was sampled from a hydrothermal breccia boulder at Previsto Este.

One dacitic outcrop with phyllic alteration and trace covellite has been discovered at Previsto Este. It assayed 0.33 % Cu (background photo)

To date only B-type veins have been observed and the boulders are interpreted to represent the intermediate stages of a multiphase porphyry cluster. Less than 1% of the bedrock outcrops and higher temperature (and higher-grade Cu-Au) mineralization with A-type veins are believed to exist within the area. But may be leached and undercover.

Rock photos



Sample 4106: porphyry float with silicification and phyllic alteration. With trace of chalcocite. 0.2 g/t Au, 0.09 % Cu



Sample 23573: Porphyry float with hydrothermal magnetite, moderate phyllic and weak argillic alteration. Dissiminated pyrite with trace chalcopyrite and covellite



Sample 4110: strongly silicified float with secondary copper oxides. 0.12 % Cu.



Sample 4105: hydrothermal breccia with porphyry clasts and matrix of iron oxides. 0.9 g/t Au, 0.13 % Cu, 6.7 pp, Ag 106 ppm Mo



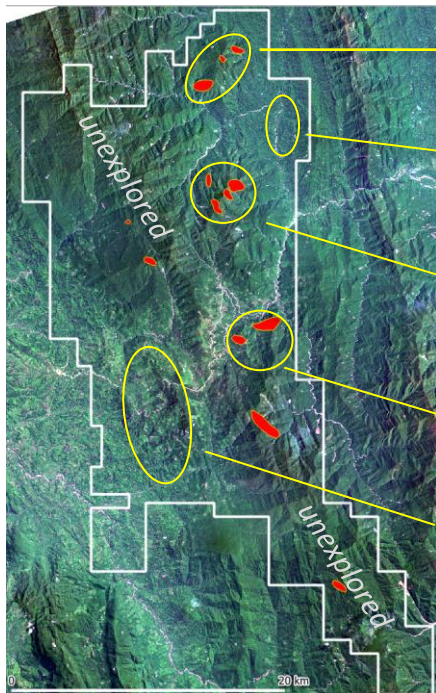
Sample 23597: Dacitic porphyry float with, moderate phyllic and weak silicification. Some malakite and iron oxides. 0.2% Cu



Sample 4117: Sample dated by U-Pb Zircon. Age 13.8 Ma +/- 0.2Ma

Previsto Exploration Results

Multiple early stage porphyry targets with confirmed miocen age intrusions and associated Cu-Au mineralization



Discrete magnetic anomaly from regional spaced airborne data. 700 m line spacing and

Previsto Norte

Porphyry style Cu-Au target inferred from intrusive plutonic boulders with propylitic alteration and magmatic magnetite.

Previsto Este

Porphyry style Cu-Au mineralization confirmed. Up to 0.33% Cu from grab sample in outcrop and 0.9 g/t Au in boulder. The area is largely under alluvial cover.

Previsto Oeste

Porphyry style Cu-Au mineralization confirmed in boulders from all catchments with up to 25% Cu in grab sample from float and up to 0.2 g/t Au. Up to 0.4 ppm Au in stream sediment samples.

Previsto Sur

Porphyry style Cu-Au target inferred. Recognizance work has identified intrusive boulders with propylitic alteration in multiple catchments.

Belen-Pendencia

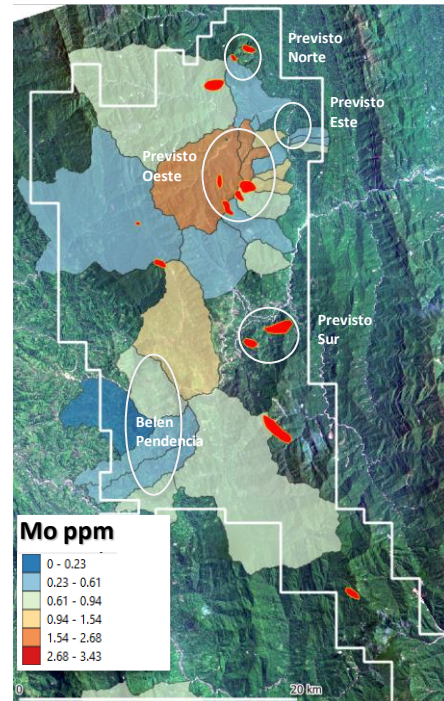
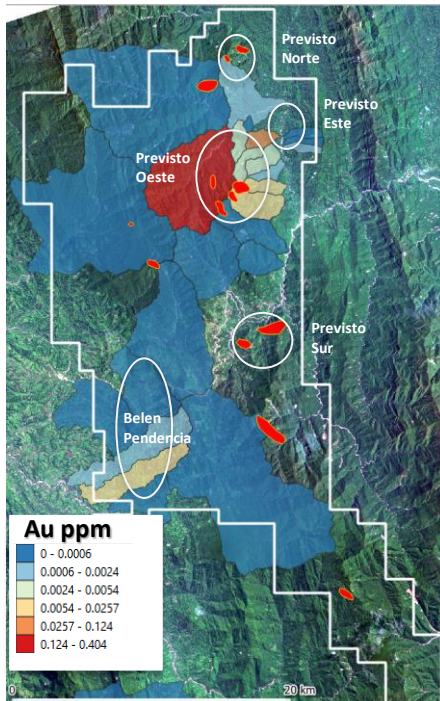
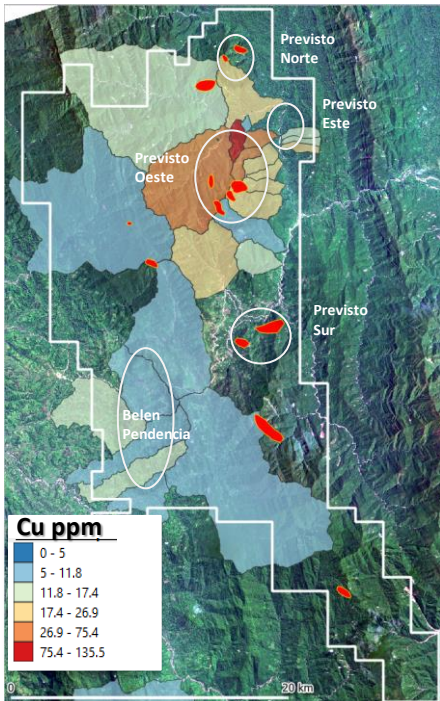
Plutonic granodiorites with Cu-Mag veins. Evidence of multiple magmatic events. Skarn alteration have been noted in outcrop. Two catchments anomolous in Cu-Au.



Previsto Exploration Results



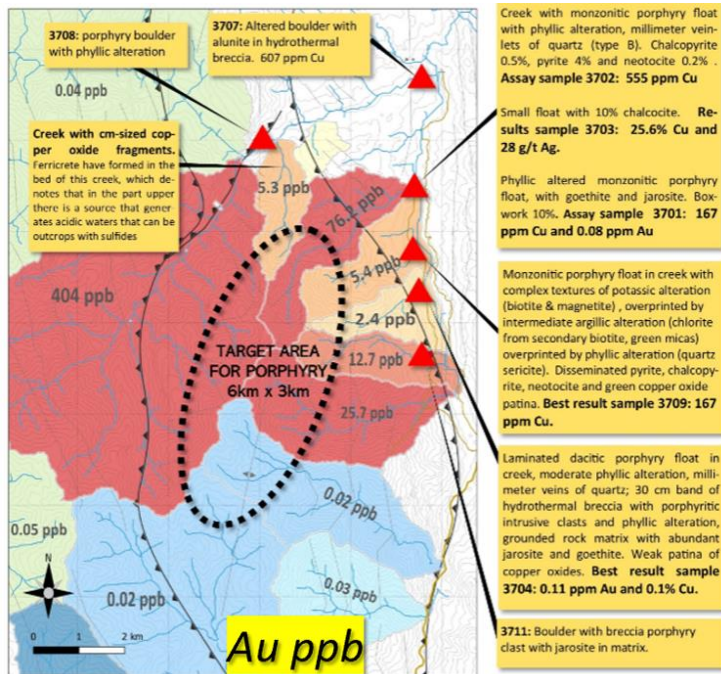
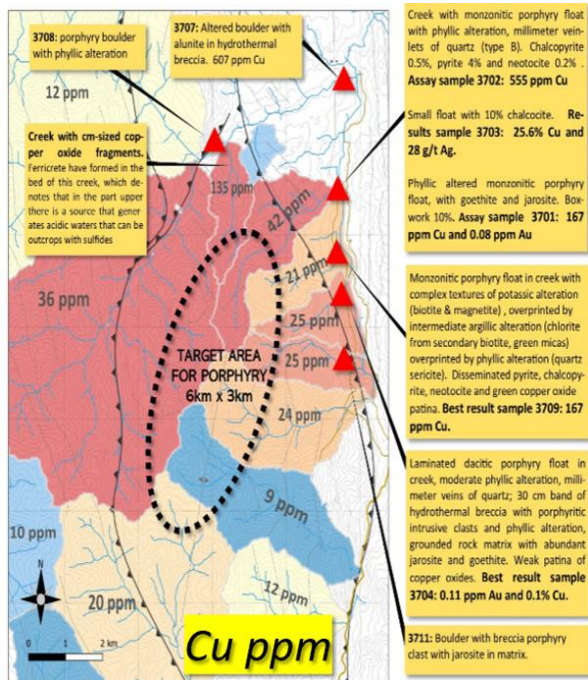
Stream sediment data



Discrete magnetic anomaly
from regional spaced airborne data

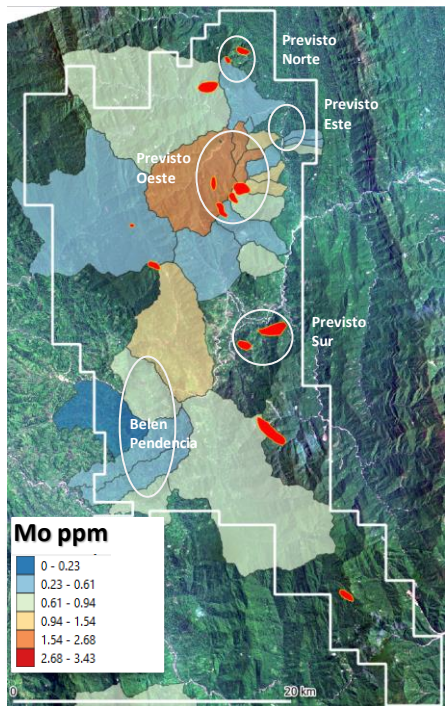
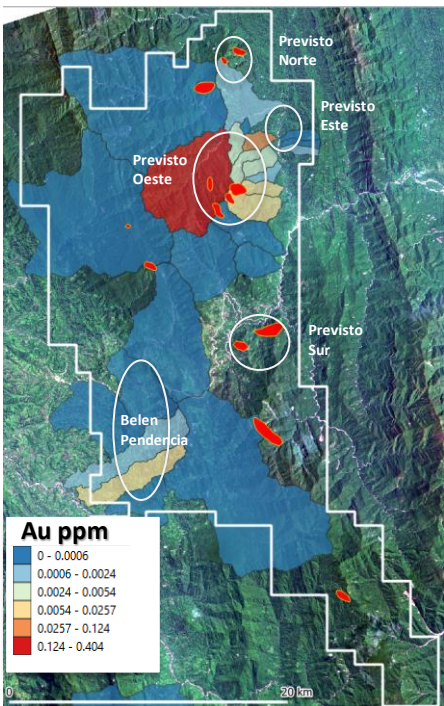
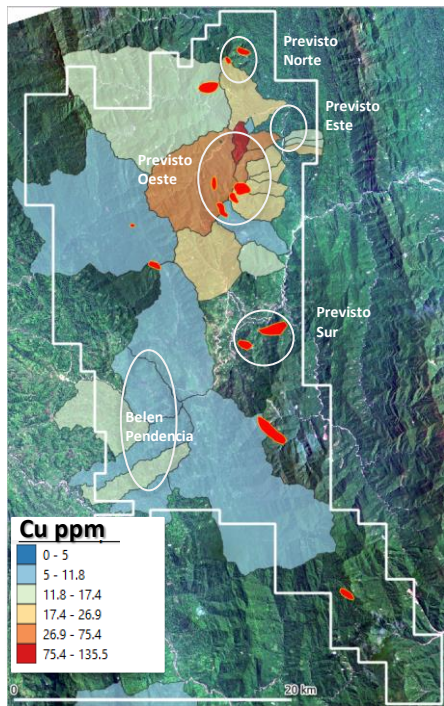
Previsto Oeste Exploration Results

Boulder and stream sediment results:



Previsto Exploration Results

Stream sediment data



Discrete magnetic anomaly
from regional spaced airborne data

Previsto Oeste Analogue

Nuevo Chaquiro deposit

A high grade copper-gold porphyry system.

Mineral Resource*

604Mt @ 0.65% Cu, 0.32g/t Au, 4.4g/t Ag, 116ppm Mo

- containing 3.95Mt copper, 6.1Moz gold, 85Moz silver and 70kt molybdenum

- Ownership:** AngloGold Ashanti (c. 92%) B2Gold (c. 8%), diluting
- Location:** Middle Cauca region approx. 60km south of Medellin.
- Deposit type:** Multiphase quartz diorite porphyry
- Potential Mine type:** Underground, block cave, two lifts, 1000m, 1400m asl.
- District potential:** Nuevo Chaquiro is one of 5 porphyry centers identified in the Quebradona district

.... high grade core, excellent mineral continuity

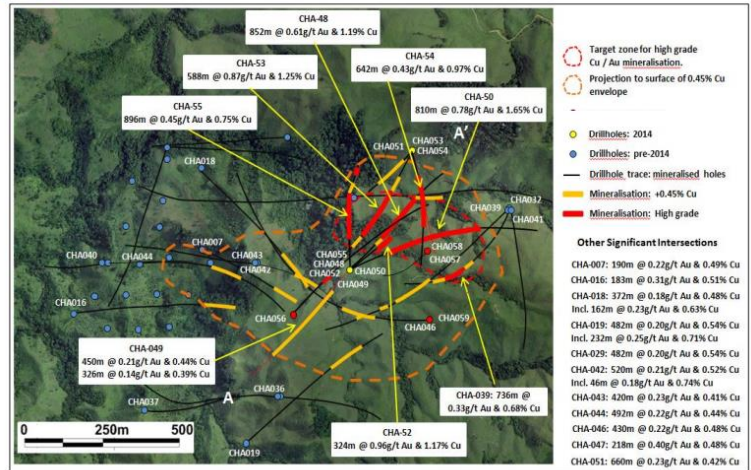
* Maiden inferred mineral resource, Nov 2014. (JORC)

** based on 48,600m drilling to Sept 8th 2014, 6m composites,

...0.45% Cu shell for resource limits, no cut-off applied

Nuevo Chaquiro deposit

Long, highly continuous mineralization intersections



2m sampling interval, half core.
0.5g/t Au equiv. cut-off.
Max 4m (consecutive) internal dilution

Cu by ICP, +10,000ppm Cu re-analysed by AAS
Intervals are drillhole length

.... with internal high grade

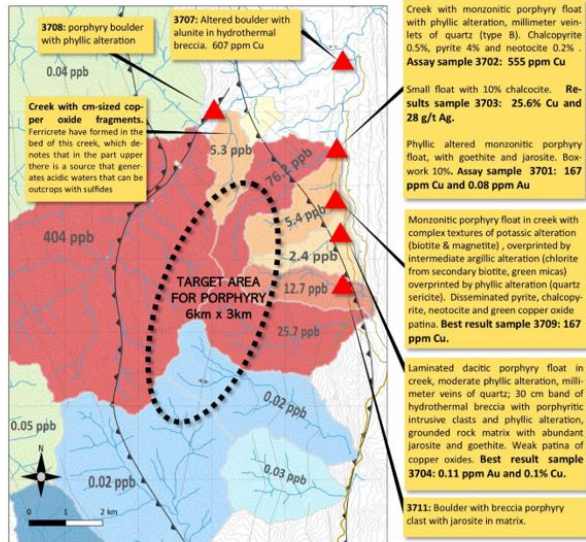
ANGLOGOLD

http://www.adimb.com.br/simexmin2016/palestra/auditorio_sao_joao_delrey_16/16h40%20Nick%20Winer.pdf

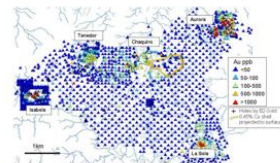
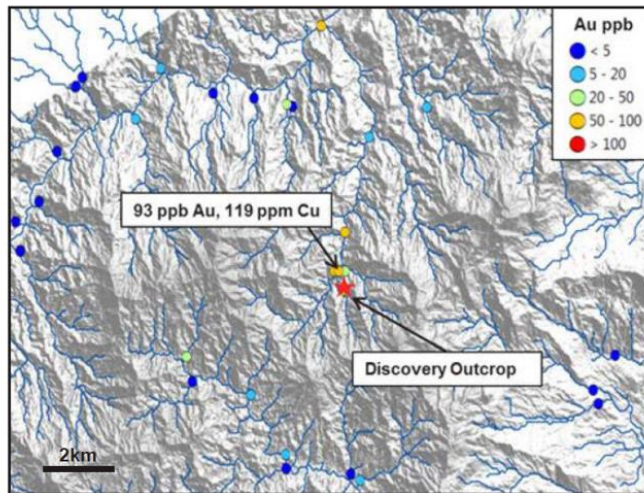
Previsto Oeste Analogue

GOLD IN STREAMS. MAPS AT THE SAME SCALE

PREVISTO



NUEVO CHAQUIRO





Previsto Project Work Plan 2021

- Active BLEG program
- Prospecting
- Social permitting
- Aeromagnetics

Budget and Timelines



Active COVID-safe field programs underway –
2021 a year of discovery

SAN MARTIN – JOGMEC JV

US\$2M

- ✓ 2021 Aim: Continue to build basin scale project, determine continuity at varying scales
- ✓ Local approval received for initiation of baseline studies and permitting to undertake advanced exploration work, including diamond drilling

PREVISTO – 100 % HANNAN

US \$700K

- ✓ 2021 Aim: Define significant gold-copper porphyry/epithermal district

Summary



- ✓ Opening up new search spaces via grassroots discovery
- ✓ \$35M JV with JOGMEC
- ✓ Dominant land positions in Peru frontier areas - next generation Cu-Ag and Cu-Au deposits
- ✓ Collecting data, making discoveries, creating value

A 100% PERUVIAN TEAM DEDICATED TO DISCOVERY



Contact Us



HANNAN METALS LTD
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