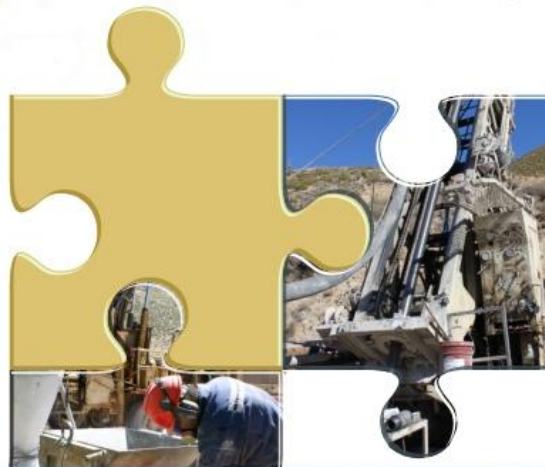




# SOUTHERN HEMISPHERE mining limited

ASX : SUH

**A Growing Force in  
South American Copper**



## **Llanos Cluster Llahuin Copper-Gold Project, Chile**

***New project areas to build a Large Scale Cu-Au deposit***

*May 2015*



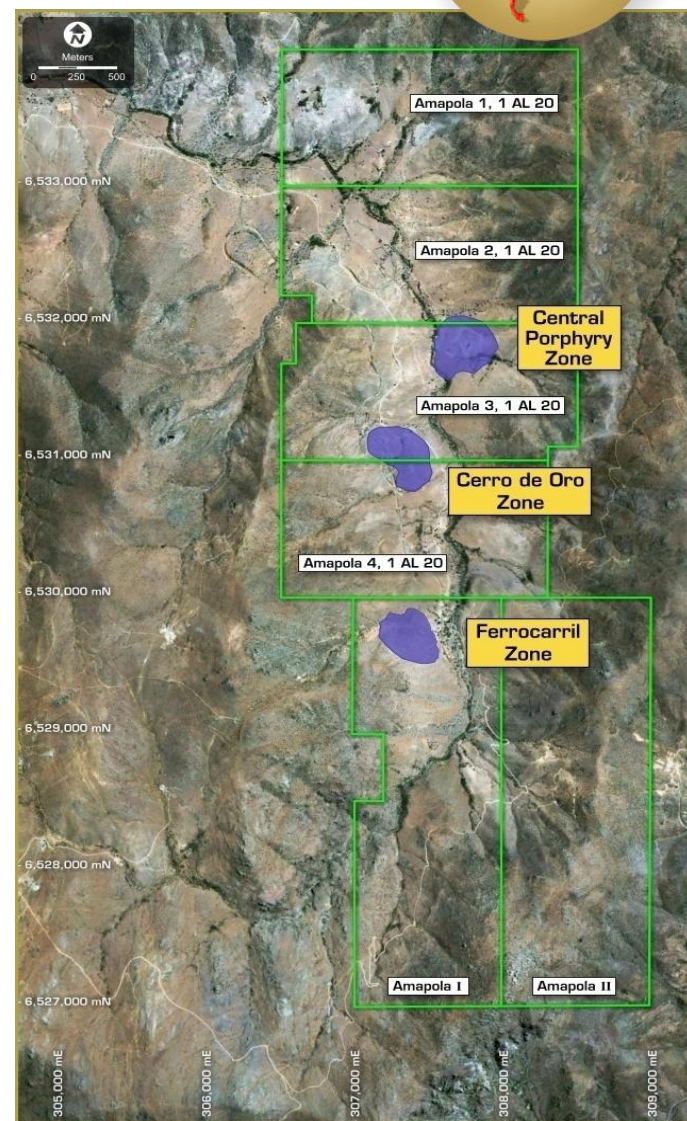
# Llahuin Copper-Gold Project : A Refresher



- ★ Key logistical advantages: low elevation plus close to infrastructure
- ★ Six granted Concession Areas covering ~14 sq km:
  - *Plus applications over adjoining ~37 sq km area*
- ★ **30-year Easement Agreement** signed with Local Community
- ★ **Higher Grade Core** of **60Mt** grading **0.50% Cu Equiv**:
  - *Corresponds to more than 4 years higher grade feed (Full **149Mt** Measured and Indicated Resource below):*

Llahuin Mineral Resource – July 2013

	Tonnes M	Cu %	Au g/t	MO %	Cu Equiv %
Measured	112	0.31	0.12	0.008	0.42
Indicated	37	0.23	0.14	0.007	0.37
Measured + Indicated	149	0.29	0.12	0.008	0.41
Inferred	20	0.20	0.19	0.005	0.36



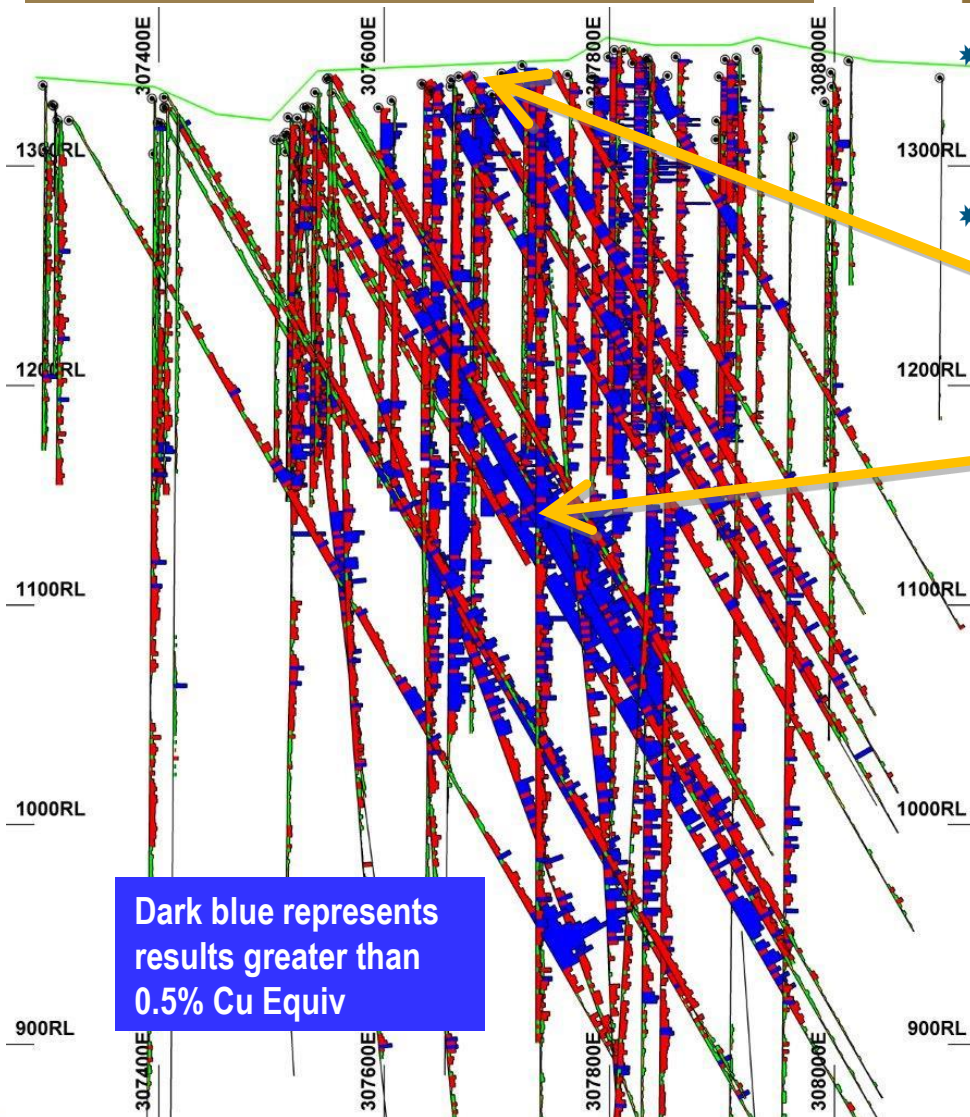




# Llahuin Copper-Gold Project : A Refresher



## Central Core – Composite Long Section



## Drilling

- Drilling to date **54,520m (29k at Central Porphyry)**
  - Reverse Circulation Drilling – **33,732m in 188 holes**
  - Diamond Core Drilling – **20,788m in 59 holes**
- Environmental application received to allow further drilling

**High grade mineralisation at surface  
(no pre-strip)**

**High grade Central Core**

**DDH-LLA-021:**

**440m @ 0.75% Cu Equiv from 2m, including:  
208m @ 1.20% Cu Equiv from 108m**

**DDH-LLA-025:**

**366m @ 0.63% Cu Equiv from 102m**

**DDH-LLA-026:**

**254m @ 0.52% Cu Equiv from 168m**

**DDH-LLA-027:**

**326m @ 0.56% Cu Equiv from 70m, including:  
128m @ 0.80% Cu Equiv from 200m**



# Llahuin Copper-Gold Project : A Refresher



## \* The Llahuin Project has:

- \* JORC compliant resource
- \* high grade core which returned bonanza grades
- \* natural advantages: close to the coast and infrastructure with low elevation
- \* environmental approvals (to drill)
- \* easement agreement with the local community

## \* To be taken to production in this market, Llahuin needs:

- \* More tonnes at a higher grade to pay off the capital cost in the early years

After several years of negotiation, properties which will be complimentary to Llahuin have become available to SUH: the **Llanos Cluster Project**.

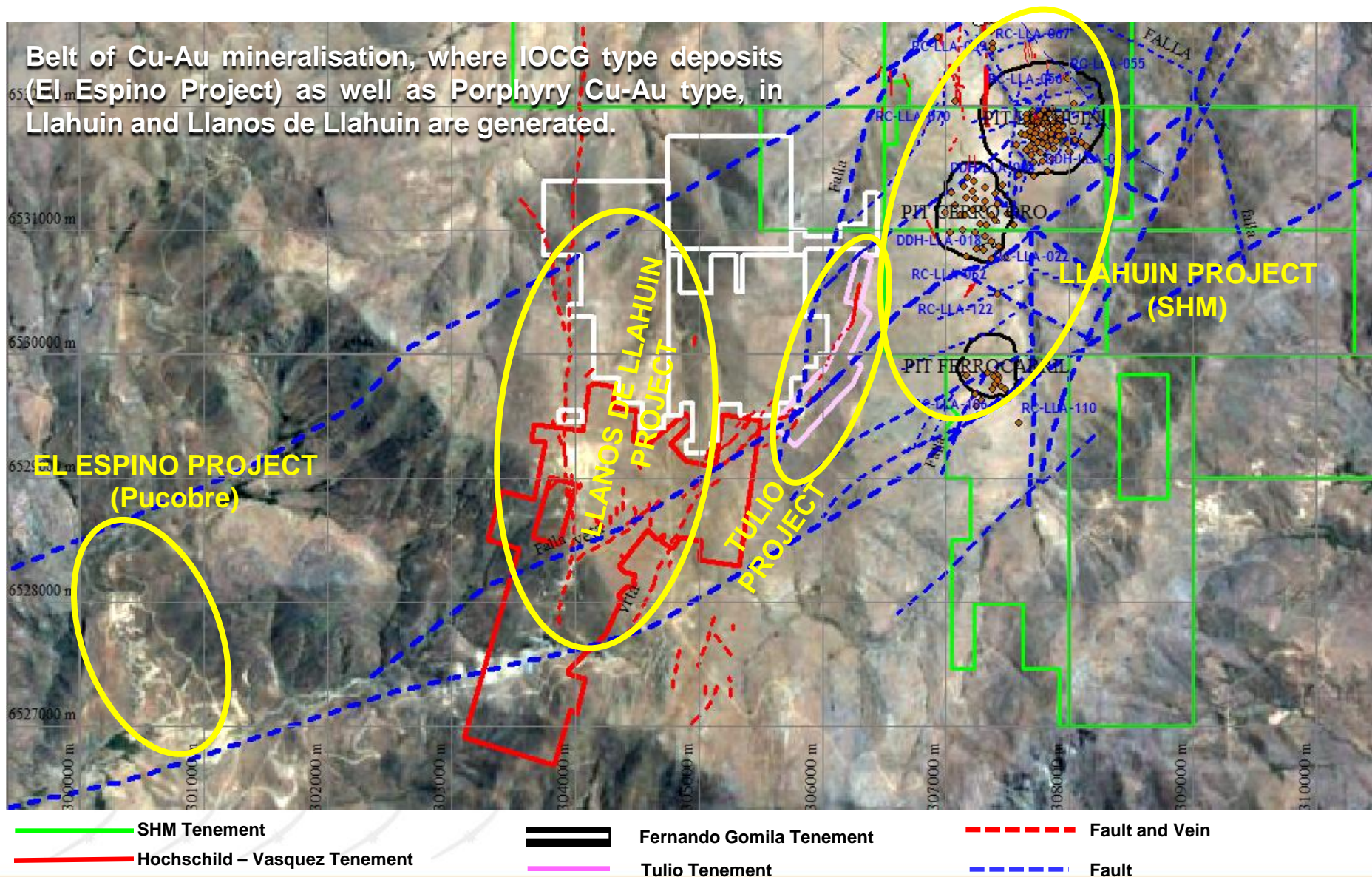
Centred just **4 km** from the Llahuin Central Porphyry, early work suggests Llanos is a larger porphyry than Llahuin with higher grade structurally controlled targets.





# Llahuin Project and Llanos Cluster

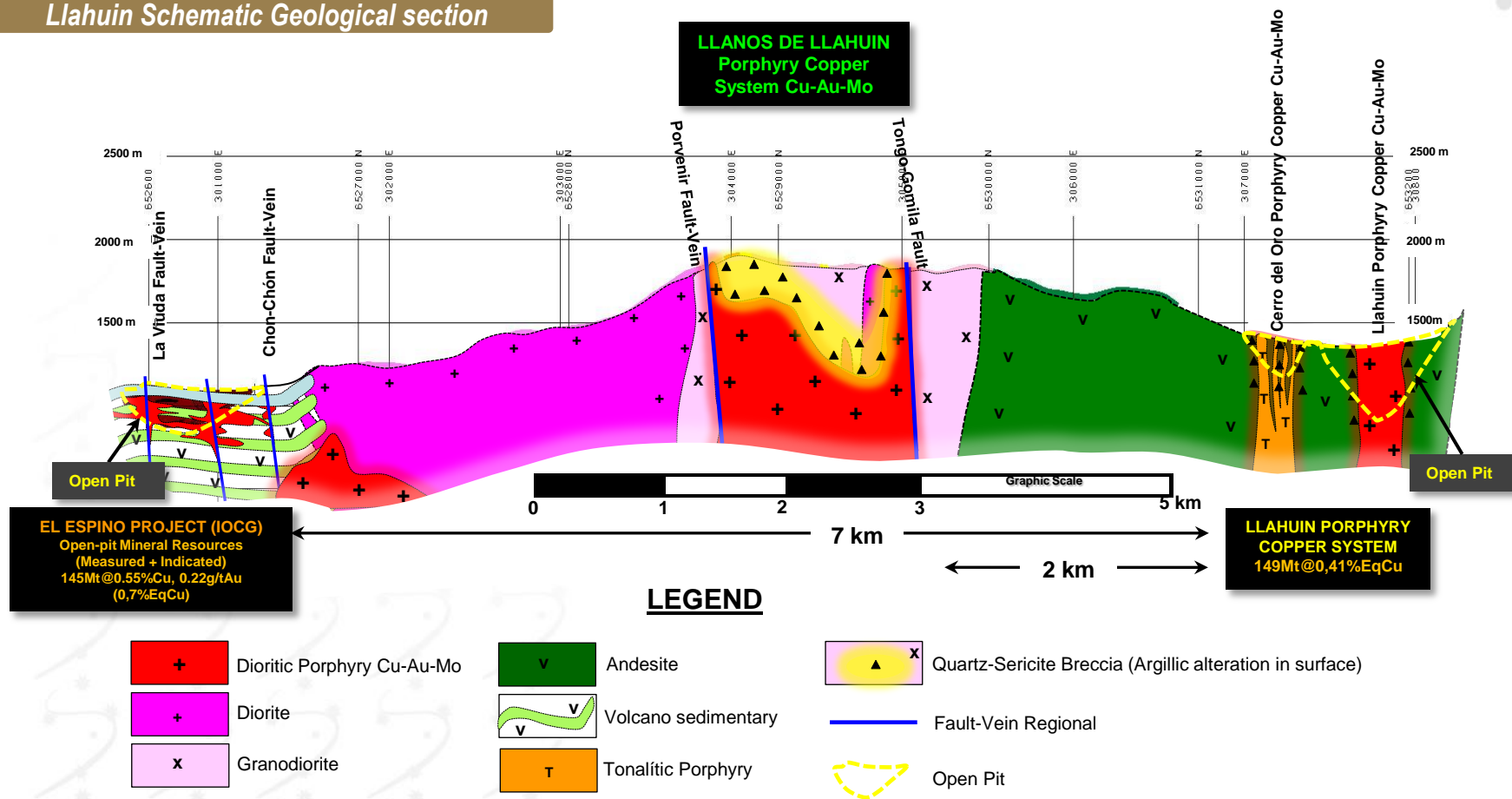
Belt of Cu-Au mineralisation, where IOCG type deposits (El Espino Project) as well as Porphyry Cu-Au type, in Llahuin and Llanos de Llahuin are generated.





# Llahuin Project and Llanos Cluster

## Llahuin Schematic Geological section



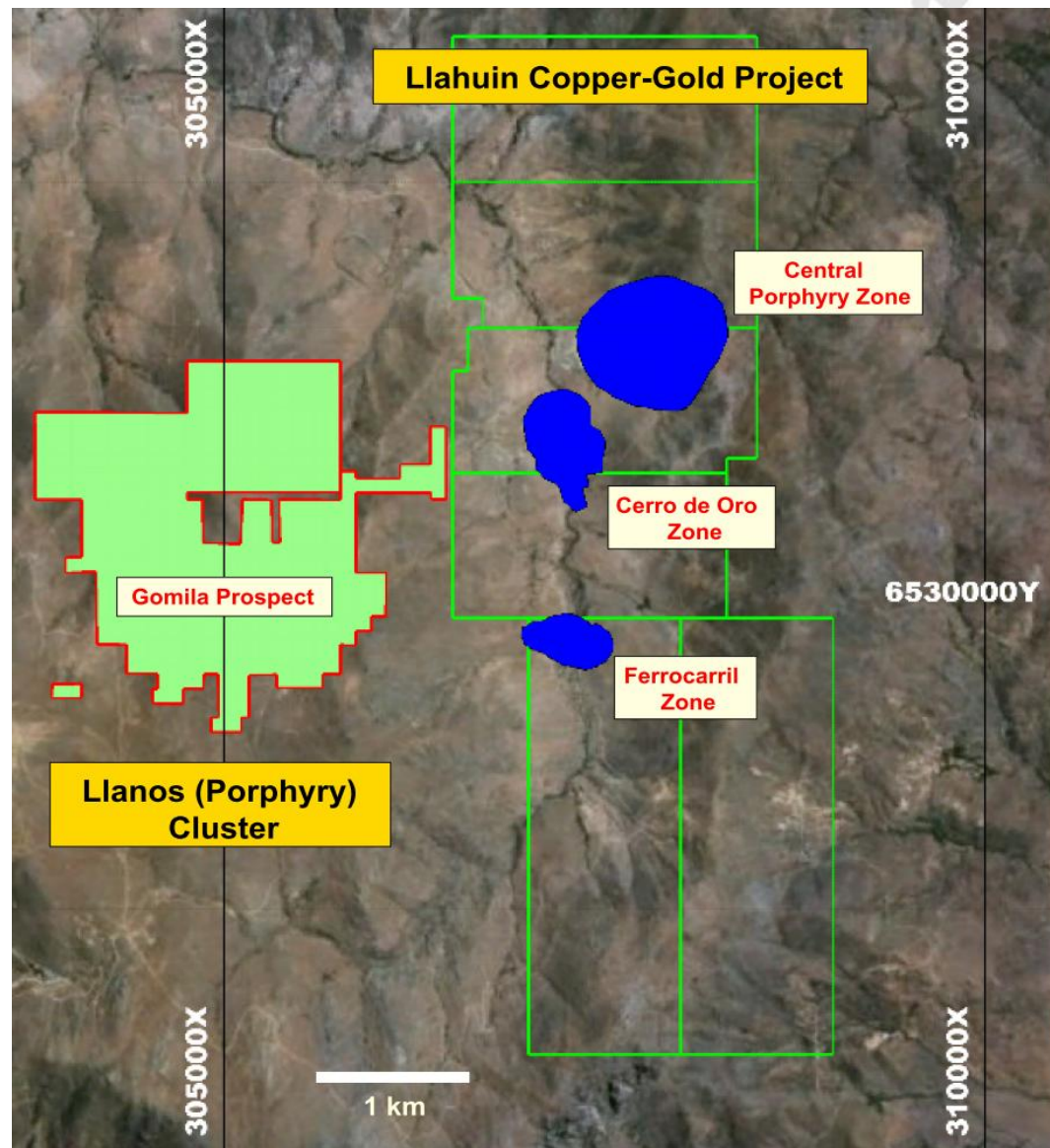
- \* In the immediate vicinity of Llahuin Project, there are several prospects which could improve Llahuin's tonnage and grades. **Llanos is the key Prospect** (~4 km away) in this regard.
- \* **Llahuin strategy:** assemble these prospects to provide additional higher grade feed to a proposed centrally located plant.





# Llanos Cluster – Gomila

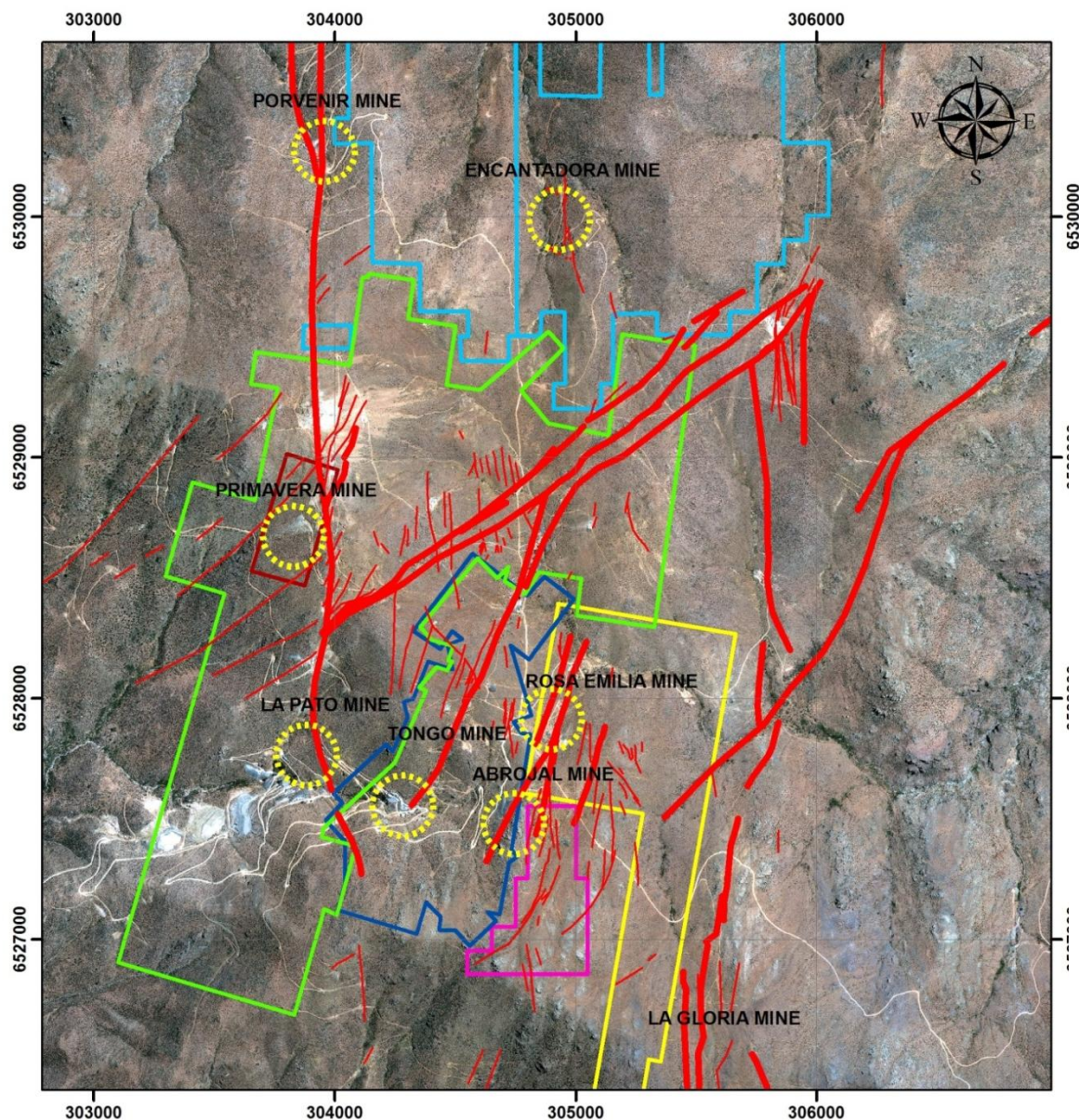
- \* The **Gomila Prospect** is the first property secured in the **Llanos Cluster**
- \* Four mines are **operating** within the **Llanos Cluster** supplying two processing plants
- \* The Gomila Prospect shows indications of the mineralisation potential at **Llanos**:
  - \* Operating mine present
  - \* Good indications of a porphyry
    - \* Strong quartz-sericite alteration
    - \* Large breccia pipe
    - \* Gossan
- \* Securing the Gomila Prospect allows Southern Hemisphere to market the combined **Llahuin/Llanos** package to prospective farm-in partners







# Llanos Cluster – Small Scale Mines in Immediate Area

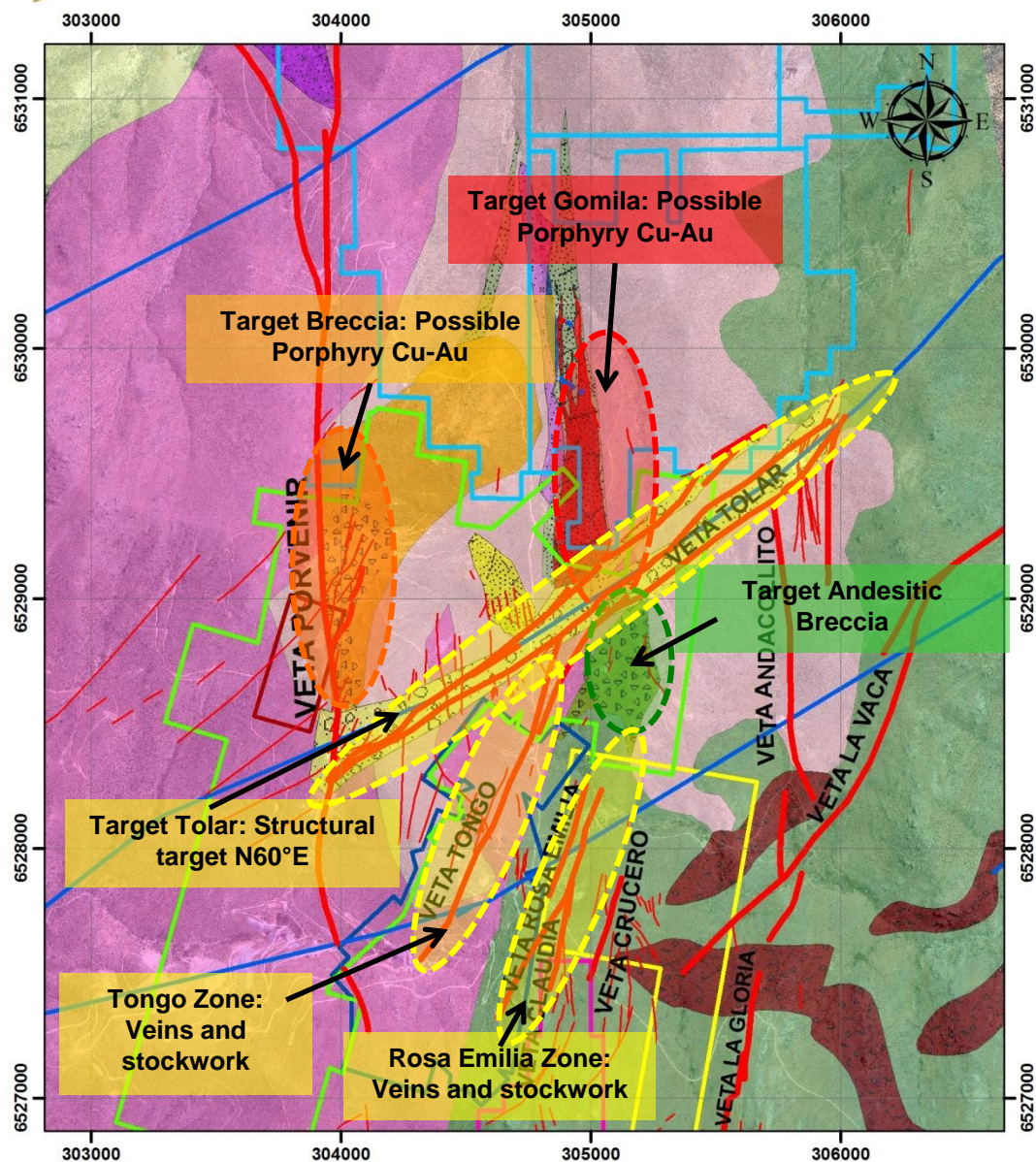


- ★ The immediate **Llanos Cluster** area is clearly prospective with small scale mines in operation and historical mines
- ★ The area hosts numerous fault lines and veins. These features assist in identifying compelling exploration targets





# Llanos Cluster – Exploration Targets



## Tenement Mining

- La Primavera
- Hochschild
- Fernando Gomila
- Cia Mra La Presidenta
- Jaime Perez Gomez
- Cia Minera Llahuin

## Structural Geology

- Fallas
- Vetas

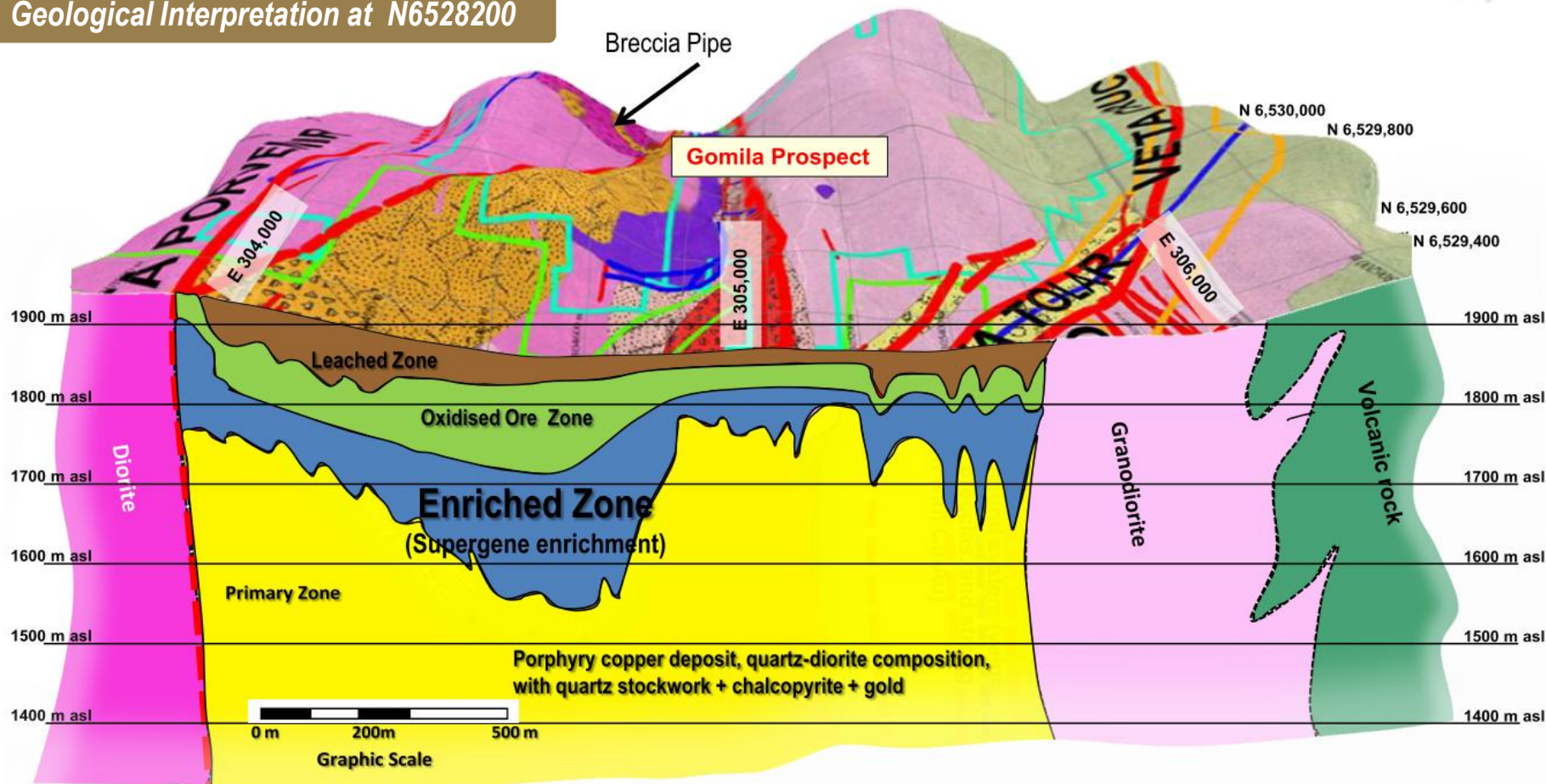
## Litology

- ROCAS VOLCANICAS
- ZONA FILICA CON STWK DE QZ
- BRECHA NORTE
- BRECHA QZ-SER-ARG
- DIORITA
- AREA BRECHIZADA Y STWK DE QZ
- FM. VINITA SEDM. CONTINENTAL
- GRANODIORITA
- PORFIDO DIORITICO PIRITICO
- PORFIDO MONZODIORITICO
- ROCA DE FALLA
- STOCKWORK ROCA VERDE
- ZONA ANDESITA BRECHIZADA
- ZONA OBLITERADA QZ-SER-ARG
- ZONA TOLAR ALT FILICA



# Llanos Cluster – Geological Section interpretation

## Geological Interpretation at N6528200



- ✦ The interpreted supergene zone at Llanos could deliver the higher grade feed required at Llahuin for a significant copper-gold mine.
- ✦ Above appears to be the leached and oxidised zones typical of porphyry copper deposits. Underneath is the primary zone which, if the interpretation is accurate, would add significant tonnage to the resource at Llahuin.



# Realising Value – Other Projects

- ★ The Company is actively marketing its significant concession holdings with the first deal on **Juan Soldado IOCG Project** executed in January 2015 (EPG Exploration Fund)
- ★ The relationship with EPG Exploration Fund has been very positive and may be extended to other areas
- ★ Separately, multiple confidentiality agreements / site visits / technical reviews are underway at:
  - ★ Chitigua Copper Project
  - ★ Las Santos Copper Project
  - ★ Rincon Copper Project
  - ★ Mantos Grandes Copper Project
  - ★ El Arrayan Copper Project
- ★ In tandem, the combined **Llahuin/Llanos** package is being marketed to prospective farm-in partners
- ★ The Los Rulos JV continues to negotiate for Polvareda 1



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This presentation has been prepared by Southern Hemisphere Mining Limited (ABN 17 140 494 784) (“SUH”, “Southern Hemisphere” or the “Company”). This presentation contains certain forward – looking information and forecasts. Such forecasts, projections and information are not a guarantee of the Company’s future performance and include unknown risks and uncertainties. Accordingly, the actual results and developments may differ from those expressed or implied. SUH makes no representation and can give no assurance, guarantee or warranty, express or implied, as to, and take no responsibility and assume no liability for, the authenticity, validity, accuracy, suitability or completeness of, or any errors in or omission, from any information, statement or opinion contained in this presentation. Nothing in this presentation should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities. You should conduct your own analysis in order to satisfy yourself as to the accuracy and completeness of the information, statements and opinion contained in this presentation.

## Competent/Qualified Person Statement

The information in this presentation that relates to exploration activities, exploration targets, exploration results or Mineral Resources, was prepared under the supervision of Trevor Tennant, Managing Director of SUH who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr. Tennant has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as a “competent person” as defined in the 2012 edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”. Mr. Tennant has reviewed and approved the information contained in this presentation.

**For further information regarding the projects, including a description of SUH’s quality assurance program, quality control measures, the geology, samples collected and testing procedures in respect of SUH’s projects, please refer to the Technical Reports and News Releases on the Company’s website at [www.shmining.com.au](http://www.shmining.com.au).**

## \*Copper Equivalent (“Cu Equiv”)

The copper equivalent calculations represent the total metal value for each metal, multiplied by the conversion factor, summed and expressed in equivalent copper percentage. These results are exploration results only and no allowance is made for recovery losses that may occur should mining eventually result. It is the Company’s opinion that elements considered have a reasonable potential to be recovered as evidenced in similar multi-commodity mines. Copper equivalent conversion factors and long-term price assumptions used are stated below:

- Copper Equivalent Formula=  $\text{Cu \%} + \text{Au (g/t)} \times 0.72662 + \text{Mo\%} \times 4.412$
- Price Assumptions-Cu (US\$3.20/lb), Au (US\$1,700/oz), Mo (US\$15/lb)





# SOUTHERN HEMISPHERE mining limited

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**A Growing Force in  
South American Copper**

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