



**Drilling the large Llahuin Copper-Gold Porphyry System in Chile to mine scale**

January 2025 ASX: SUH FWB: NK4

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# Disclaimer

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Unless otherwise indicated technical information in this presentation ("Technical Information") based on information contained in the technical reports and news releases (collectively the "disclosure documents"). Each disclosure document was prepared by or under the supervision of a qualified person. Readers are advised that mineral resources that are not mineral reserves do not have demonstrated economic viability. The Disclosure Documents are each intended to be read as a whole, and sections should not be read or relied upon out of context. The Technical Information is subject to the assumptions and qualification contained in the Disclosure Documents. All Dollar amount in this presentation are AUS Dollar unless otherwise stated. All maps and diagrams are for illustrative purposes only and no to scale.

ASX releases referred to or source of data used in this presentation are as follows:

Llahuin Copper/Gold/Moly Project

18 July 2011, 2 Feb 2012, 3 July 2013, 15 Feb 2022, 28 April 2022, 4 Oct 2022, 8 Nov 2022, 29 Nov 2022, 18 Jan 2023, 3 Feb 2023 19 April 2023, 15 Jan 2024, 29 April 2024, 27 August 2024, 19 September 2024, 11 December 2024, 28 January 2025

Llahuin Copper/Gold/Moly Project: Total Measured and Indicated Resources - JORC (2004) Compliant. As announced to the market on 18 August 2013

Los Pumas Manganese Battery Metals Project:

Total Measured and Indicated Resources - JORC (2012) Compliant. As announced to the market on 3 May 2023

ASX release 25 March 2011 - Resources & ASX 2 February 2011 – PEA Coffey Mining and SNC Lavlin

A large low grade indicated and inferred resource of 264mt @ 2.4% Mn (resource published ASX 10 May 2010 – Coffey Mining)

ASX 23 March 2023

Lago Lithium Brine Project

ASX 13 July 2023 -Lago Lithium Project

The Company confirms in this presentation that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

# LLAHUIN HAS TREMENDOUS SCALE POTENTIAL



## Company Projects in Chile

Llahuin - Los Pumas - Lago

### LOS PUMAS MANGANESE

Northern Chile

- HPMSM Battery Manganese
- 30.2mt @ 6.24% Mn

### LAGO LITHIUM BRINE

Northern Chile

- Inside The Lithium Triangle

### LLAHUIN COPPER-GOLD-MOLY

Central Chile

- Open Pit and Growing
- 680,000t CuEq Resource

- Llahuin Copper-gold
- Lightly explored
- Over 4km x 1.5km sulphide zone - open
- Delivering results incl 105m@ 0.64%CuEq from 0m to EOH incl 26m@ 0.91% from 78m
- Diamond tails to extend
- JORC Resource upgrade on target for Q2
- 67km NW of the giant Los Pelambres copper mine (Antofagasta + others)
- 8km East of the El Espino mine- under construction, Pucobre/RCF



# Capital Structure

Fully paid ordinary shares	736,240,044
Unlisted options (mgt)	13,750,000
Unlisted Opts (broker) (10c, 17/06/27)	1,000,000
Cash (31 Dec 24)	\$2.9m
Est Receivables*	\$3,000,000
Market cap at \$0.036	~\$27m
Listed: ASX Ticker: ASX: SUH Frankfurt: NK4	
HQ: Perth Western Australia	
Substantial Shareholders	
Pictet Asset Mgt (Singapore) Pte Ltd 9.8%	
Merchant Holdings Pty Ltd (mgt) 9.7%	
Others: 6.5% and 5%	
Notes	
Unlisted Options Exercisable Nil (Performance KPI) , Expiry 30 Jul '26	
Currency is AUD	
* Est Net VAT refund subject to govt approvals-ref March 24 Quarterly report	

## SHAREHOLDER DISTRIBUTION

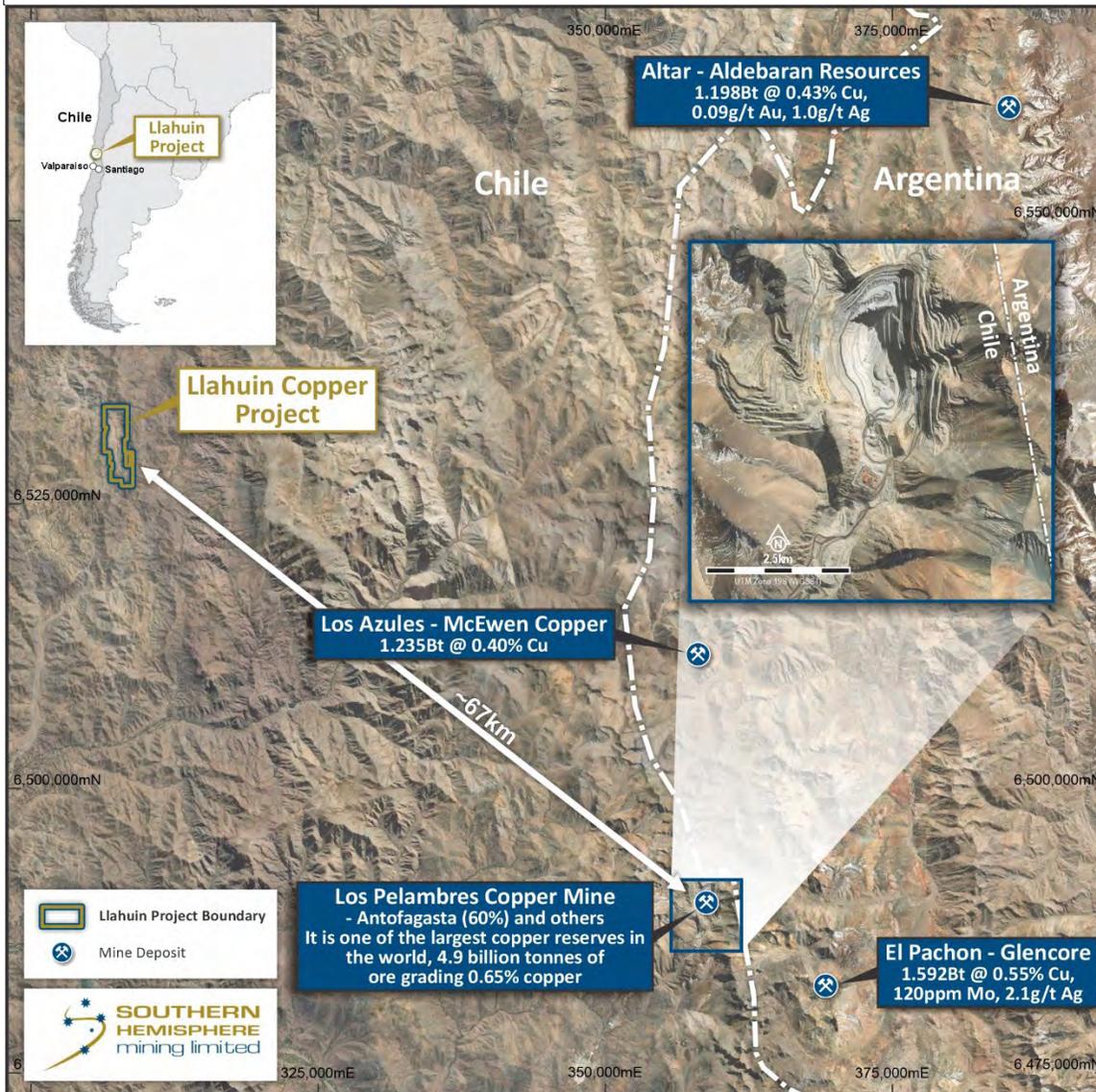


# Board and Management: Our Team Knows Copper Mining

Over 40 years combined mine discovery, development and / or operating experience internationally; including two of the world's more significant copper mines; Dikulushi - located in DRC Africa & Grasberg Mine - located in West Papua

<p><b>Mark Stowell</b> B.Bus CA</p>	<p><b>Chairman</b></p>	<p>Internationally experienced resource sector executive. Founding Chairman of Mawson West Ltd; an international copper producer &amp; explorer which completed an IPO on the Toronto Stock Exchange in one of the largest base metal IPO's of 2011. A founder of Incremental Petroleum Limited and Anvil Mining Ltd.</p>
<p><b>David Frances</b> BSc Geol (Hons)</p>	<p><b>Director</b></p>	<p>Managing Director of Province Resources Ltd (ASX:PRL). Mr. Frances led Mawson West (TSX: MWE) from 2006 – 2012; he was instrumental in developing into a significant international copper producer, developer, &amp; explorer in the DRC.</p>
<p><b>Natalie Dawson</b> B.Com CPA MBA</p>	<p><b>Director</b></p>	<p>Significant Australian &amp; international experience as a Director / CFO / Major Projects Commercial Director Experience includes boots on the ground - West Papua Grasberg copper/ gold mine, multi-national publicly listed companies (Including: Rio Tinto, MacMahon, Clough Engineering).</p>
<p><b>Richard Caldwell</b> B.Ec LLB F.Fin</p>	<p><b>Director</b></p>	<p>Formerly Head of Corporate Finance &amp; Equity Capital Markets at StoneBridge, Head of Equity Capital Markets at Burdett Buckenridge &amp; Young; before holding several senior management positions with Citibank Sydney, JP Morgan London.</p>
<p><b>Adam Anderson</b> B.Sc Geol (Hons) MAusIMM</p>	<p><b>Exploration Manager</b></p>	<p>Australian and international expertise including; discovery team on the Golden Cities gold project in Australia, taking the project to prefeasibility; Certej Deeps Gold Porphyry in Romania, planning and drilling the discovery hole which ultimately saw the resource increase from 2Mozs to over 4Mozs; and responsible for seven JORC compliant copper resources in the DRC for Mawson West and others.</p>

# Llahuin Copper-Gold: Land of the Giants



## Llahuin within 100km of giants

- Los Pelambres- Antofagasta-Chile
- Los Azules- McEwen Copper-Argentina
- El Pachon- Glencore-Argentina
- Altar- Aldebaran-Argentina

✓ Chile has an International Credit Rating of A (S&P) (Australia AAA, Argentina CCC)

✓ **Llahuin-Excellent Location**

- ❖ Low altitude at 1,300m
- ❖ ~5km to grid power, 200km to Coquimbo Port
- ❖ Combarbala town 24km (13,000popn), Santiago 350km
- ❖ Sealed airstrip 20km
- ❖ A historical railway traverses the property
- ❖ Groundwater ~40m, good flow rates

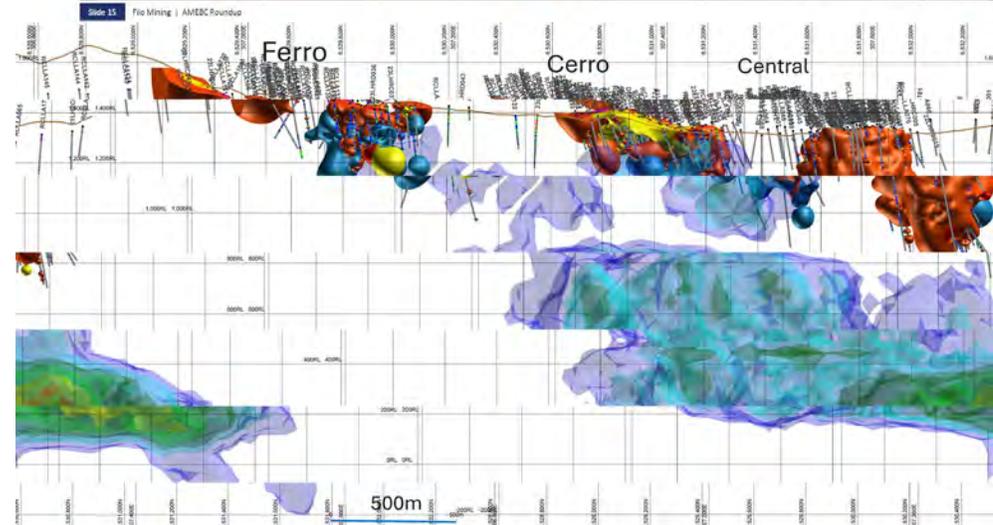
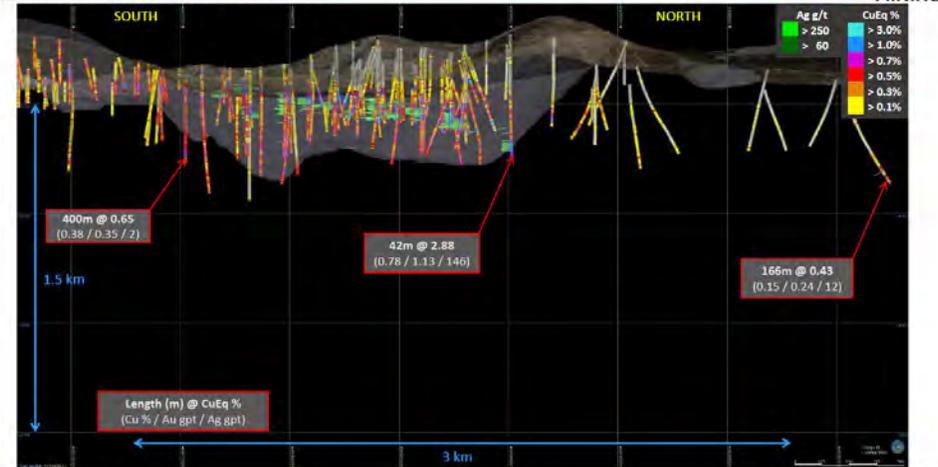
✓ **ESG**

- ❖ Low population area
- ❖ Long term community agreement in place
- ❖ Local workforce

# Llahuin Copper-Gold: Footprint Size Comparison

FILO DEL SOL – SNAPSHOT – MID 2018

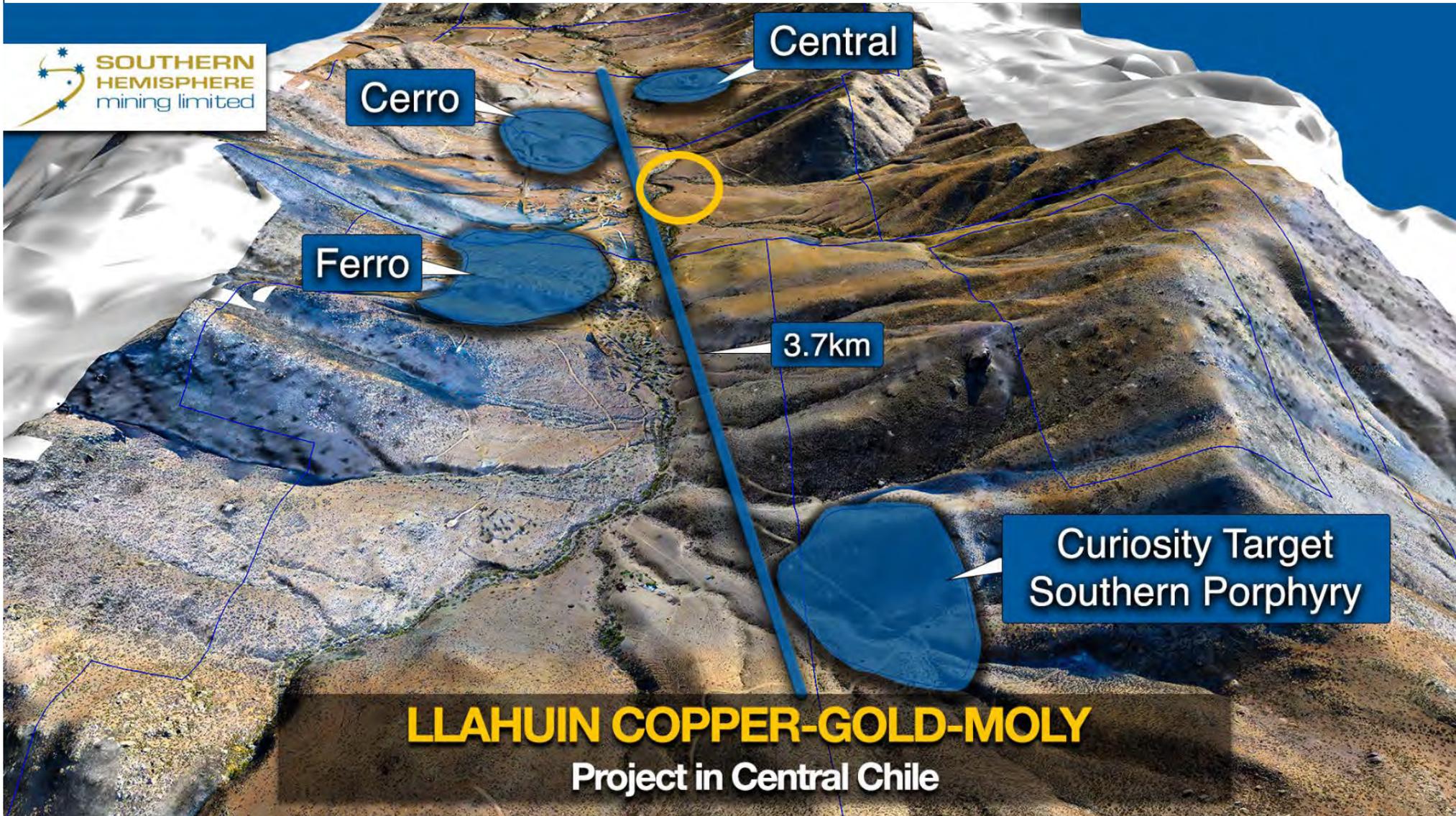
NORTH-SOUTH VERTICAL SECTION – LOOKING WEST



- Long section through Central Porphyry to Ferro, showing the conceptual fathom geochemical models, and implicit geochemical models based on existing drilling.

- Note the similar geometries/footprint to Filo Del Sol deposit. (Filo Mining –TSX Presentation 02/02/2022)

# Llahuin Copper-Gold is delivering on drilling



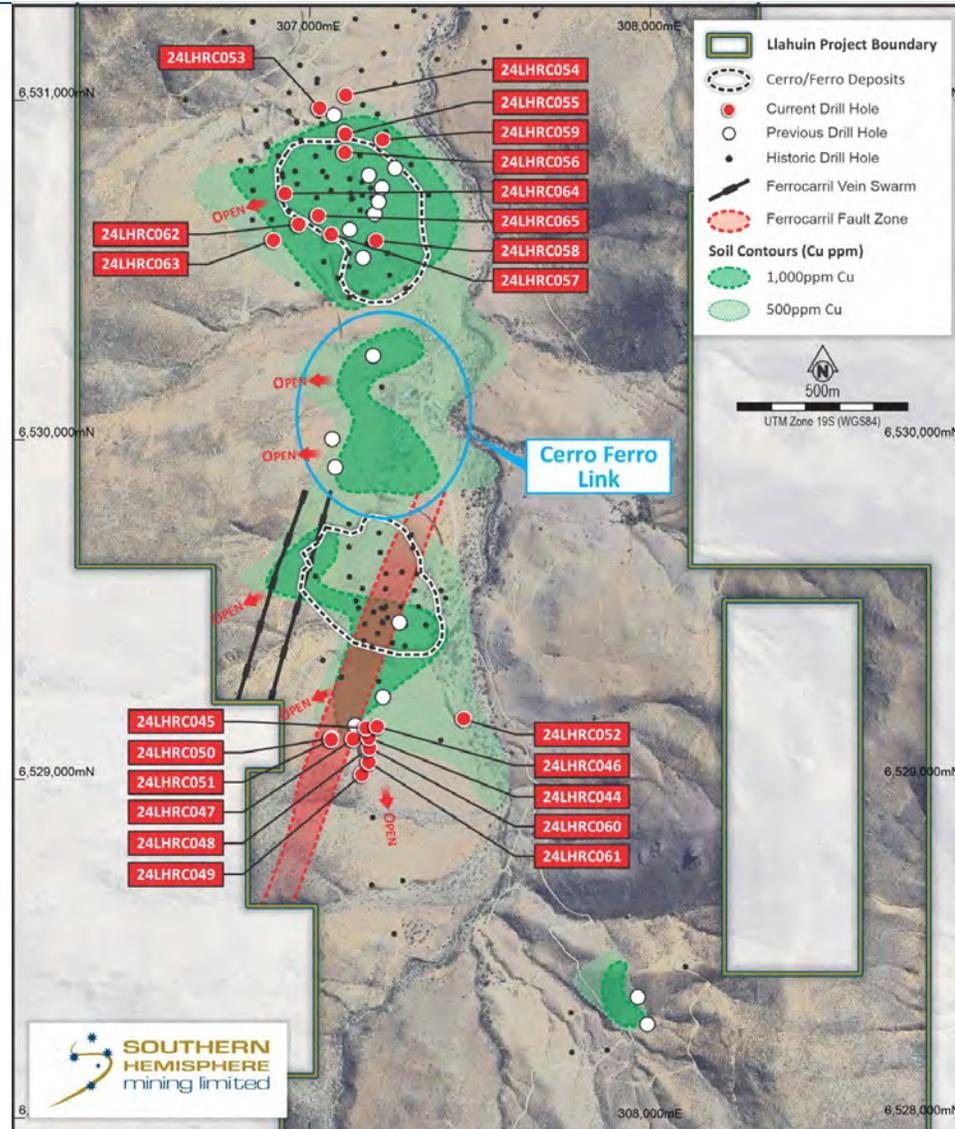
# Selection of Top Drill Results (2024 drilling highlighted)

HOLE ID	From	To	Width m	CuEq %	LOC		From	To	Interval	Grade CuEq%
DDHLLA043	416	450	34	1.49%	CENTRAL	Higher grade at depth				
DDHLLA021	2	440	438	0.75%	CENTRAL	Incl	182	288	106	1.69%
24LHRC065	0	105	105	0.64%	CERRO	Incl	78	104	26	0.91%
DDHLLA025	102	468	366	0.63%	CENTRAL					
21LHRC003	0	90	90	0.62%	CENTRAL					
DDHLLA027	70	396	326	0.56%	CENTRAL					
DDHLLA026	168	422	254	0.52%	CENTRAL					
24LHRC060	12	30	18	0.52%	FERRO	Incl				
23LHRC027	0	156	156	0.51%	CERRO	Incl	46	128	82	0.67%
24LHRC051	102	118	16	0.51%	FERRO	Incl				
24LHRC055	2	83	81	0.49%	CERRO	Incl	30	78	48	0.58%
24LHRC064	22	66	46	0.48%	CERRO	Incl				
24LHRC058	0	132	132	0.48%	CERRO	Incl	0	60	60	0.67%
24LHRC061	40	94	54	0.48%	FERRO	Incl				
21LHRC009	0	69	69	0.47%	CERRO					
23LHRC028	32	168	136	0.47%	CERRO	Incl	100	132	32	0.66%
24LHRC062	38	74	36	0.47%	CERRO	As part of				
23LHRC042	0	48	48	0.45%	FERRO					
24LHRC048	2	122	120	0.42%	FERRO	Incl	66	124	58	0.49%

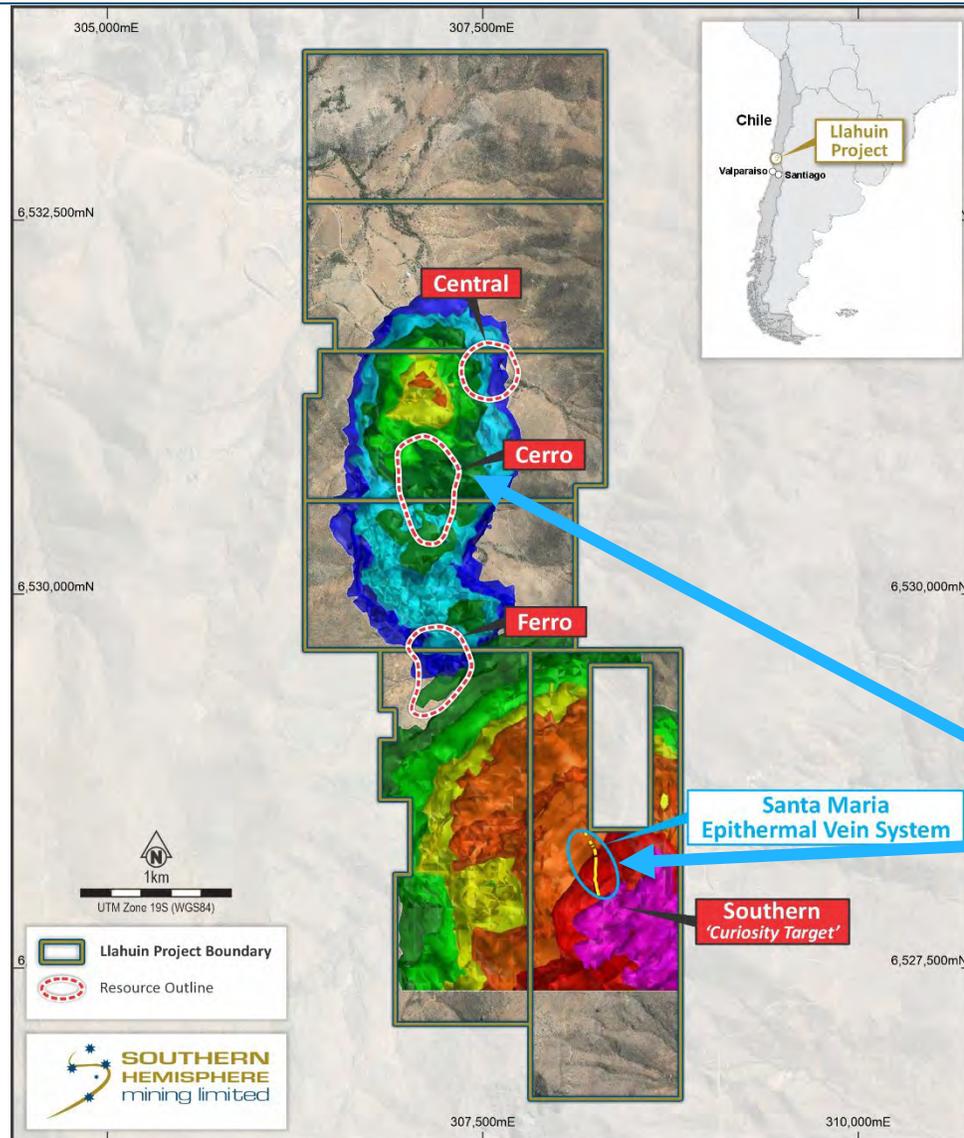


**Central Porphyry underground adit sample showing chalcocite and chalcopyrite** (within JORC Resource ASX 13 Aug 2013)

# Llahuin Recent Drilling-Plan View Drill Collar Locations (excludes Holes 24LHRC066-69 in progress)



# Llahuin Copper-Gold- Technical Summary



1. Drilling results delivering across multiple targets to add tonnes and grade
2. Surface geochemistry works +2000 samples
3. Full surface mapping and sampling program instigated identifying the vein structures and orientations, continuing
4. Relogged +20km of core, vein density, multi-element assay, pulp composites etc
5. Underground adit sampling and surveying
6. New drone mag
7. Derivation of a new geological model identifying major scope for expansion and higher grades deeper
8. AI and modern geophysics to target higher grade mineralised zones

***DRILLING FOR MAJOR RESOURCE GROWTH***

# Mineral Resource Estimate Independently Certified 2013, Upgrade on track for Q2 2025



**SOUTHERN HEMISPHERE mining limited**

**Llahuin COPPER**

Total Measured and Indicated Resources at Llahuin Cu-Au-Mo Project					
Cu Equiv % Cutoff	Tonnes Million	Cu %	Au g/t	Mo %	Cu Equiv %
0.26	173	0.28	0.12	0.007	0.39
0.28	149	0.29	0.12	0.008	0.41
0.30	127	0.3	0.13	0.008	0.43

Total Inferred Resources at Llahuin Cu-Au-Mo Project					
Cu Equiv % Cutoff	Tonnes Million	Cu %	Au g/t	Mo %	Cu Equiv %
0.26	26	0.19	0.17	0.005	0.34
0.28	20	0.20	0.19	0.005	0.36
0.30	15	0.21	0.21	0.005	0.38

Totals Resources per Zone at Llahuin Cu-Au-Mo Project				
Zone	Measured (Mt)	Indicated (Mt)	Total Mea + Ind (Mt)	Inferred (Mt)
Central Porphyry	101.2 @ 0.43%	7.3 @ 0.34%	108.5 @ 0.42%	2.8 @ 0.32%
Cerro de Oro	10.8 @ 0.39%	15.2 @ 0.38%	26.0 @ 0.38%	15.6 @ 0.37%
Ferrocarril		14.4 @ 0.37%	14.4 @ 0.37%	1.5 @ 0.34%
<b>Total</b>	<b>112 @ 0.42%</b>	<b>37 @ 0.37%</b>	<b>149 @ 0.41%</b>	<b>20 @ 0.36%</b>

Zone tonnage at 0.28% CuEq Cutoff included in Resource Estimate - Grades are shown in Cu Equiv %

Contained Metal Summary at Llahuin Cu-Au-Mo Project				
Resource Category	Copper (t)	Cu %	Gold oz	Au g/t
Measured	344,000	0.31	433,000	0.12
Indicated	86,000	0.23	165,000	0.14
Inferred	40,000	0.20	119,000	0.19

Higher Grade Core Resources at Llahuin (Measured + Indicated Cat)					
Cu Equiv % Cutoff	Tonnes Million	Cu %	Au g/t	Mo %	Cu Equiv %
0.34	70.6	0.34	0.14	0.008	0.48
0.36	60.3	0.35	0.15	0.008	0.50
0.38	52.0	0.37	0.16	0.008	0.52

Refer to SUH August 2013 ASX Release

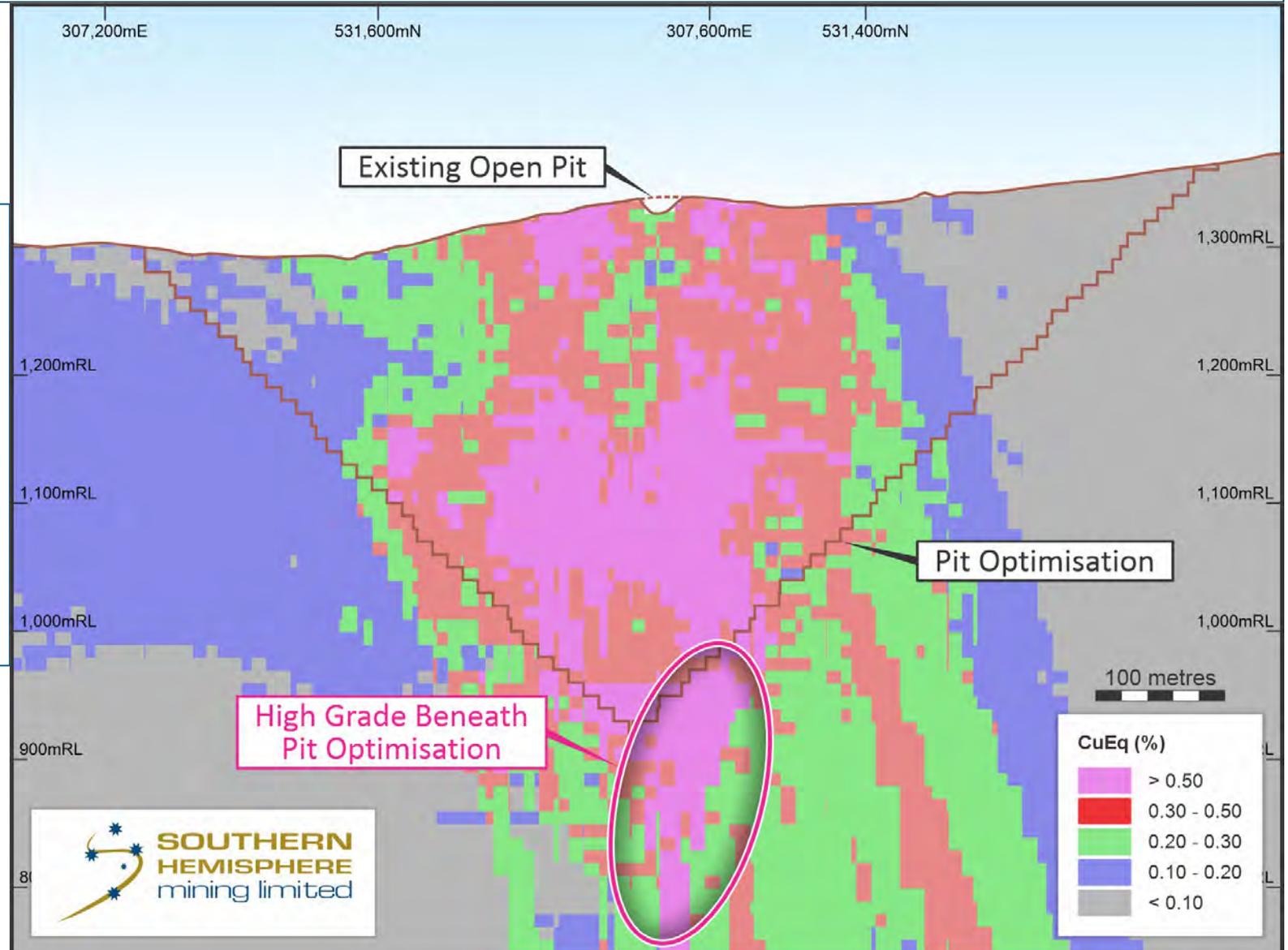
- Total Copper tonnes: 686,000t CuEq
- Measured Indicated and Inferred at 0.28% cut-off\*
- From surface, open pit style mining and growing
- Resource upgrade in progress, Q2 2025 to include all work and drilling since 2013

\*ASX/TSX release 43-101 18 August 2013

# Llahuin Central Deposit 108mt @ 0.42% CuEq Measured and Indicated

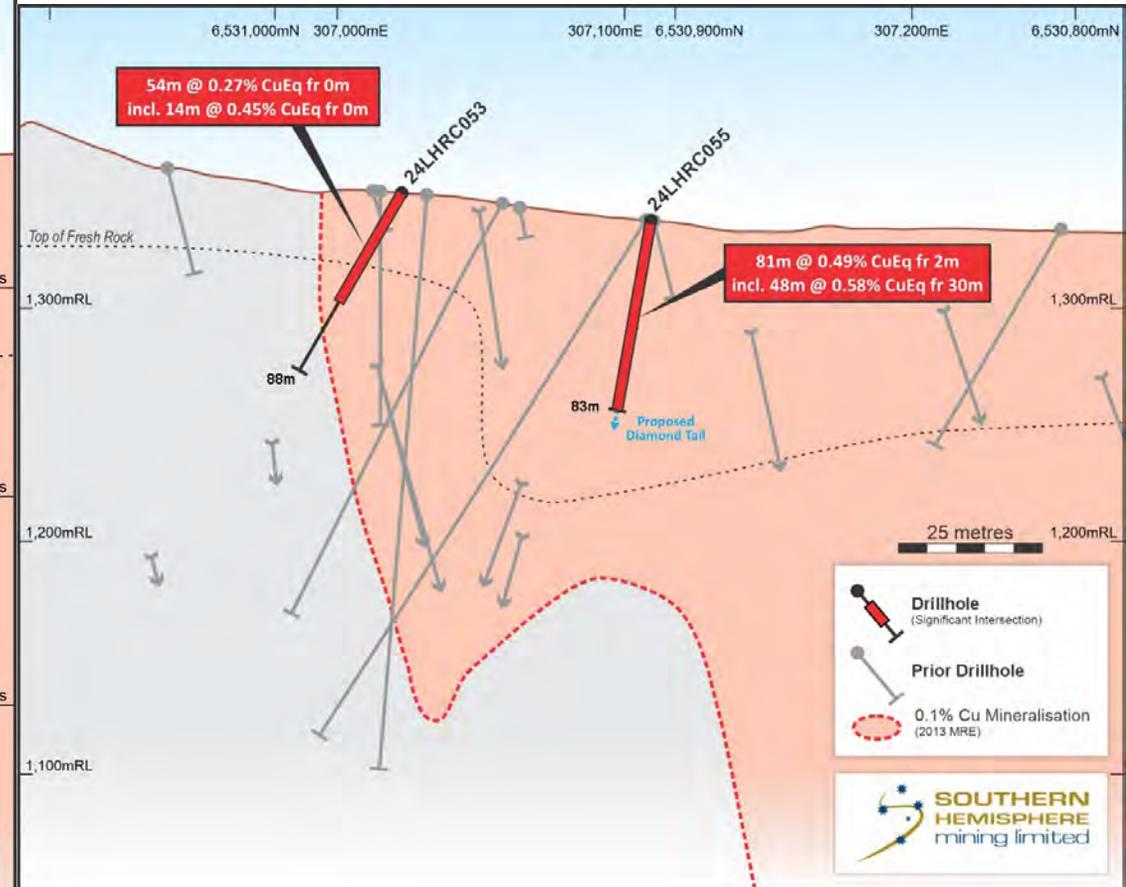
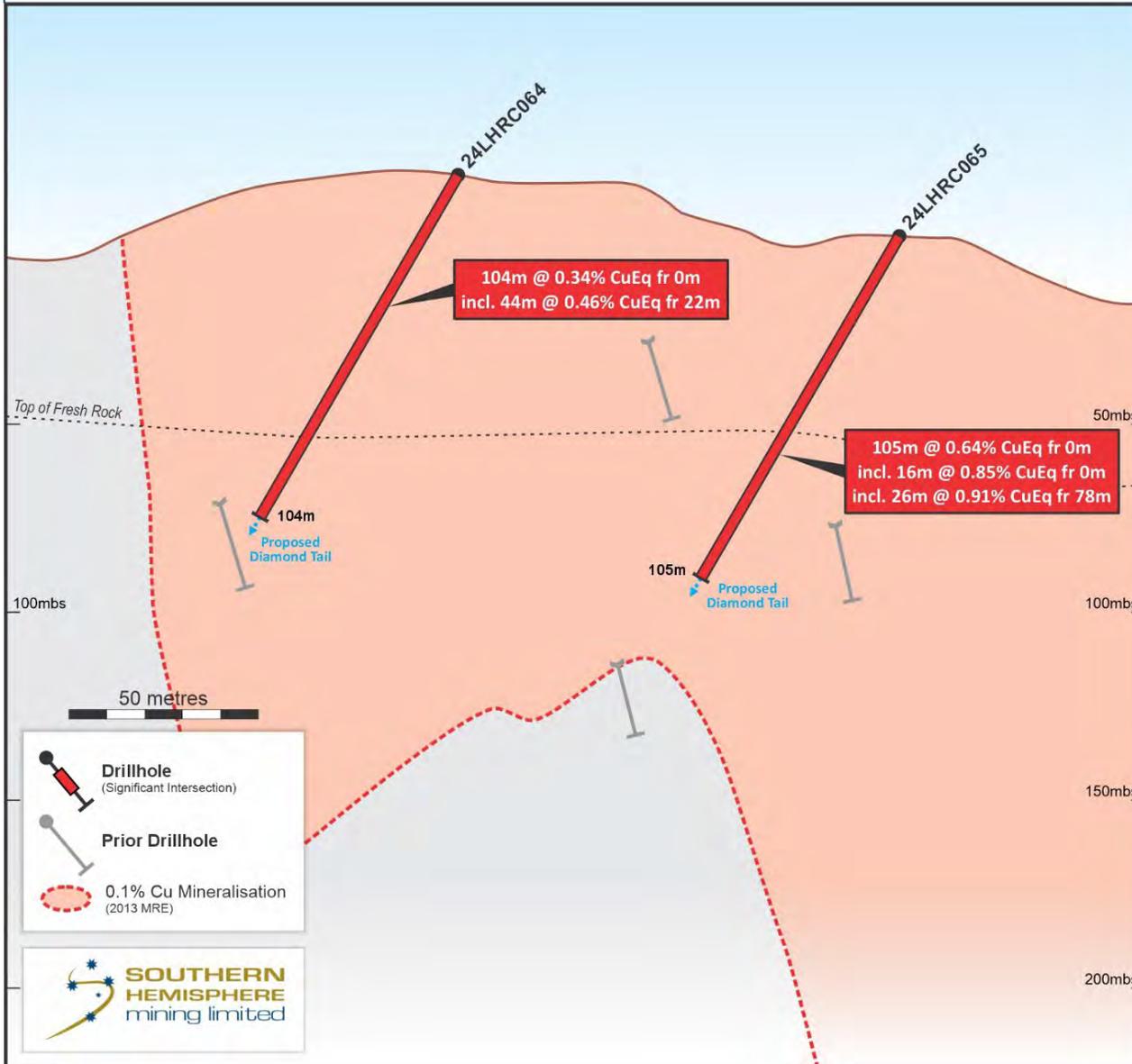
## Resource drilling complete for open pit mining

- ✓ ~1:1 Strip ratio, ore from surface
- ✓ Defined depth of drilling limit (open pit) ~400m vertical
- ✓ Higher grade core



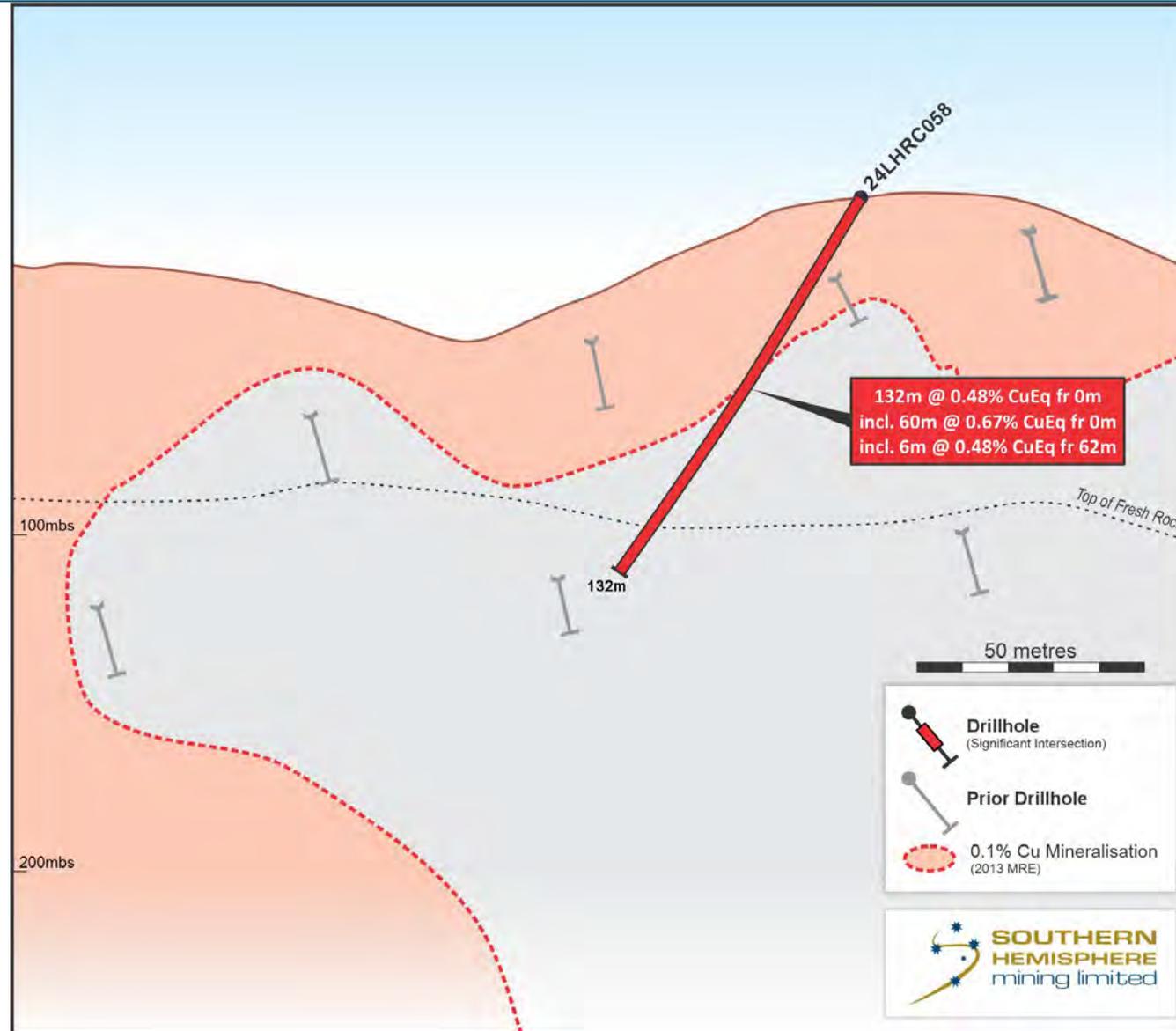
# Cerro-Ferro Deposits

## Large intersections at good grades-open at depth for DDH



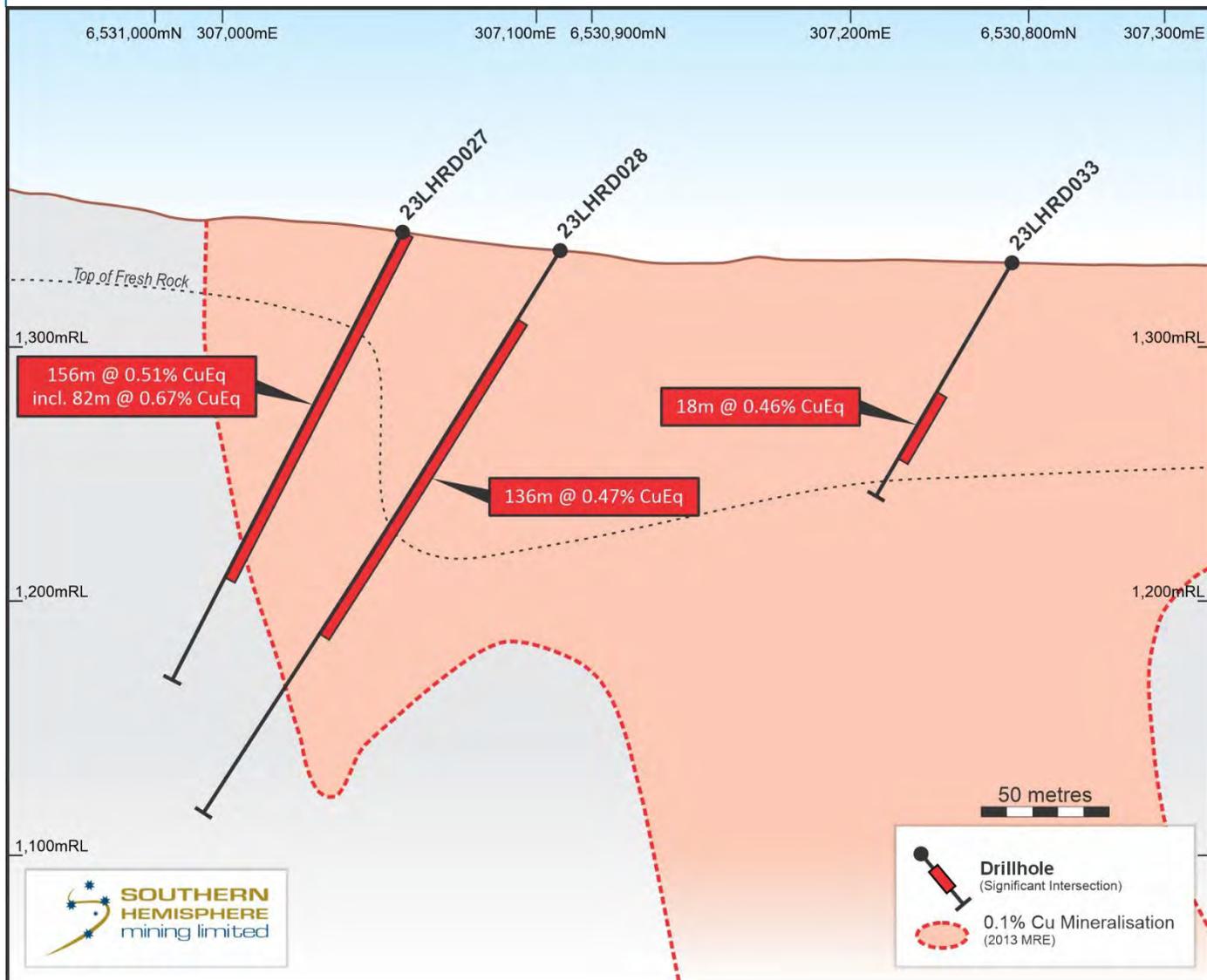
# Cerro-Ferro Deposits

## Large Intersections at Good Grades-open at depth for DDH



**Good copper/gold mineralisation over large intervals, open at depth for deeper diamond drilling**

# Drill Results from Cerro Deposit 2023

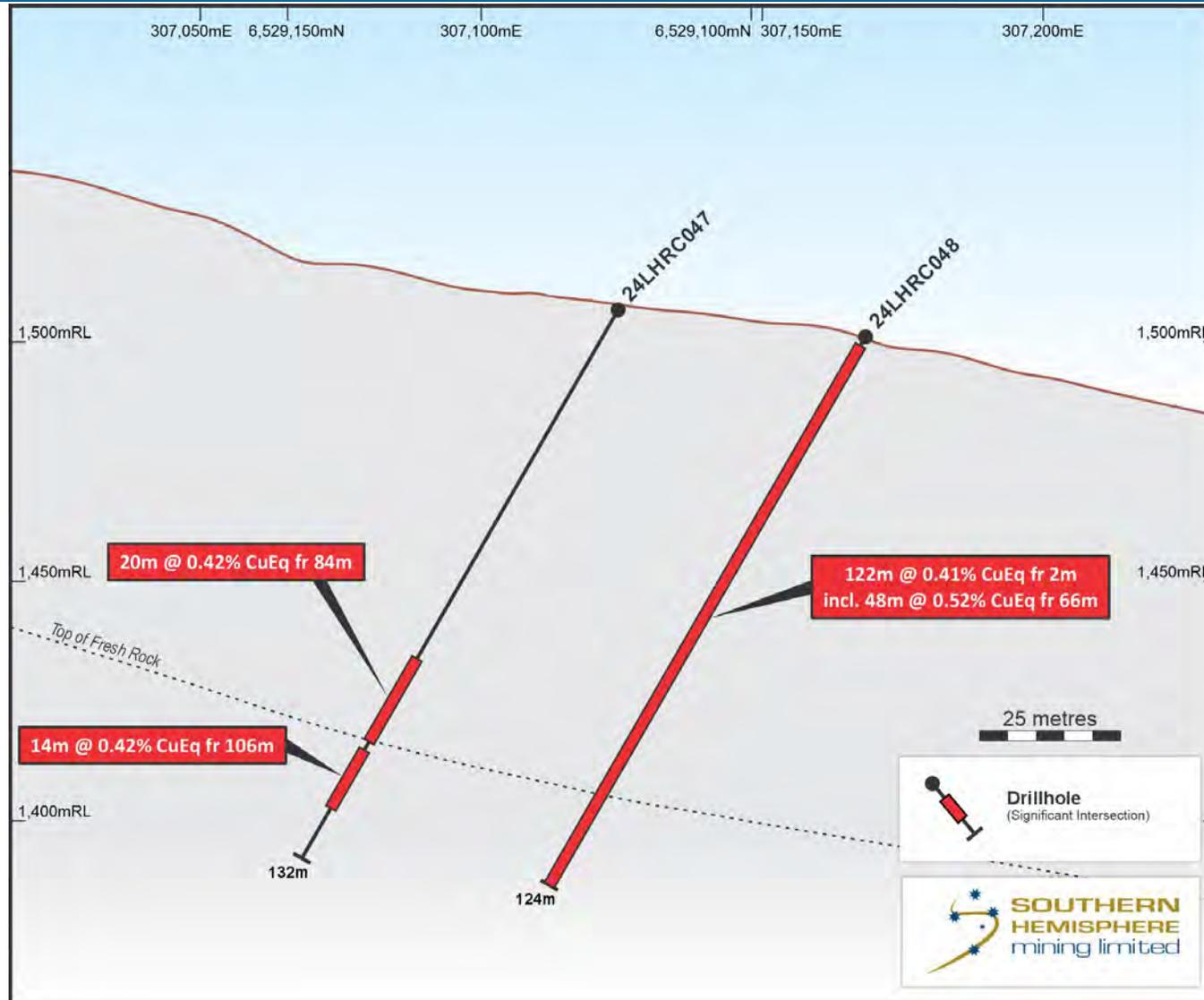


- **23LHRD0027: 156m @ 0.51% CuEq from surface,**
- **incl 82m @ 0.67%CuEq from 46m**
- **23LHRD0028: 136m @ 0.47%CuEq from 32m**

Note that historical holes are omitted from the cross section for the purpose of clarity, as they are oblique to the section, at a sub optimal angle to interpreted mineralisation

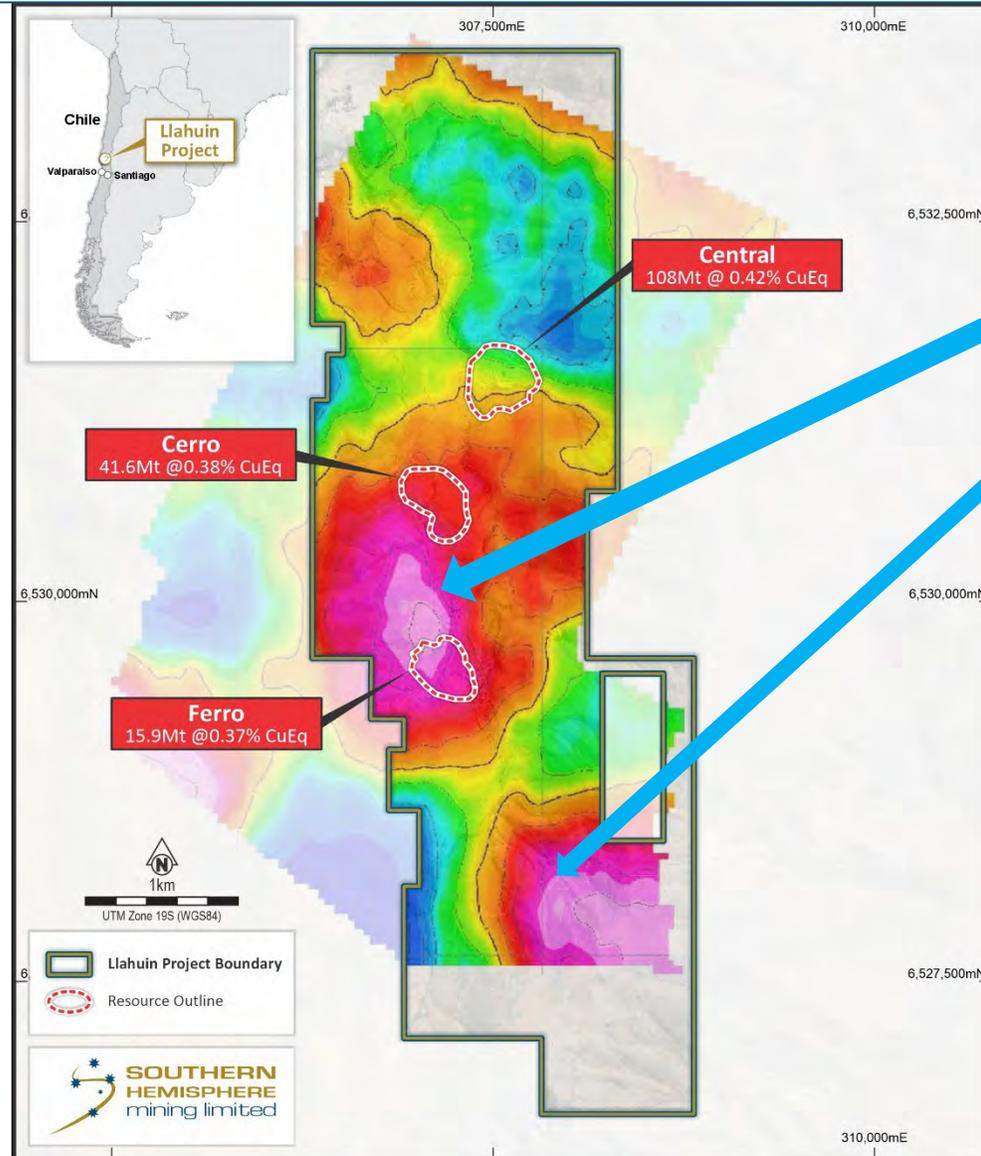


# Recent Drill Results from Ferro



**Ferro extending South into new unexplored areas with good copper mineralisation over large intervals, open at depth for ddh deeper drilling**

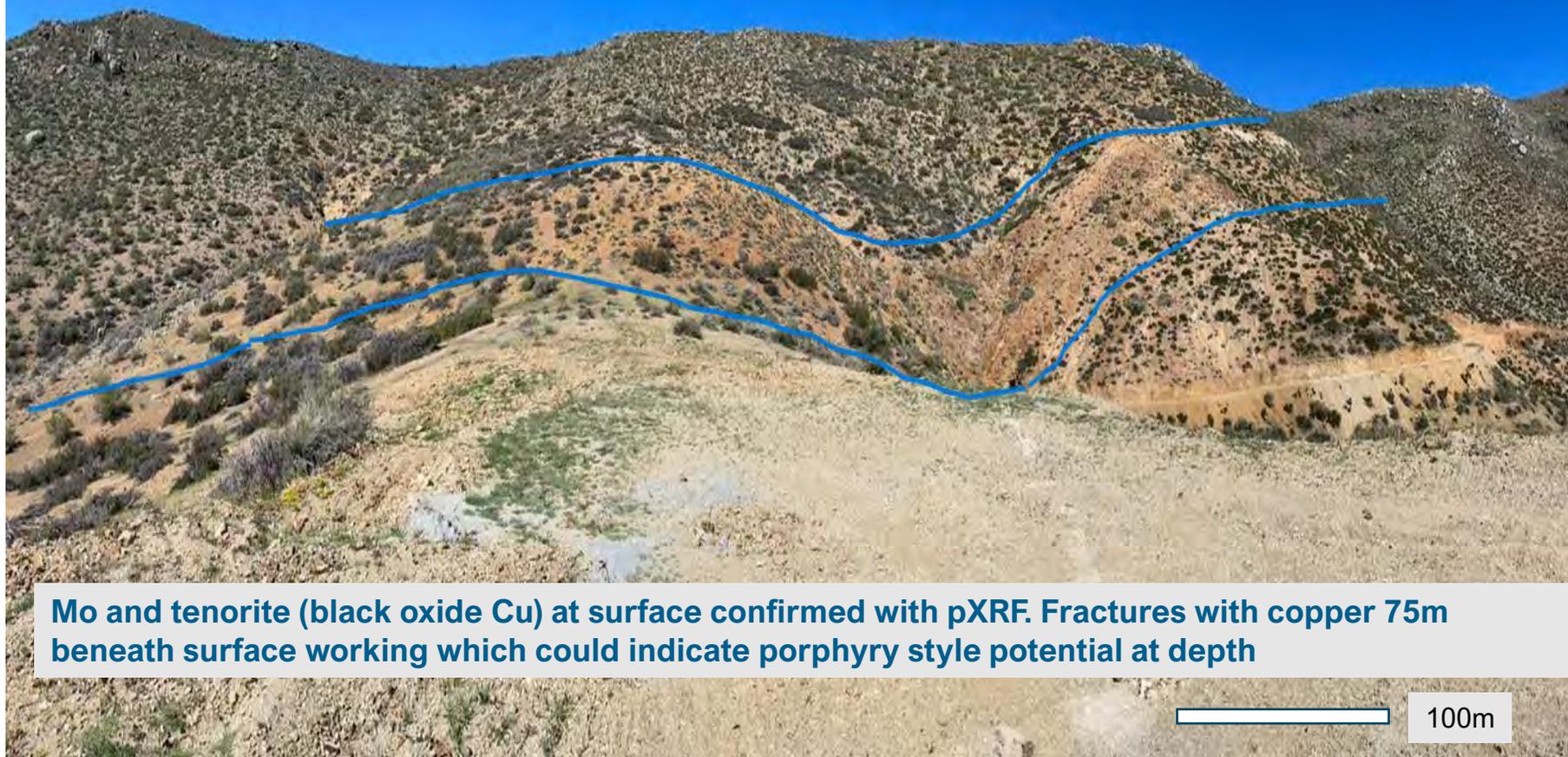
# Two Large Systems Driving Mineralisation



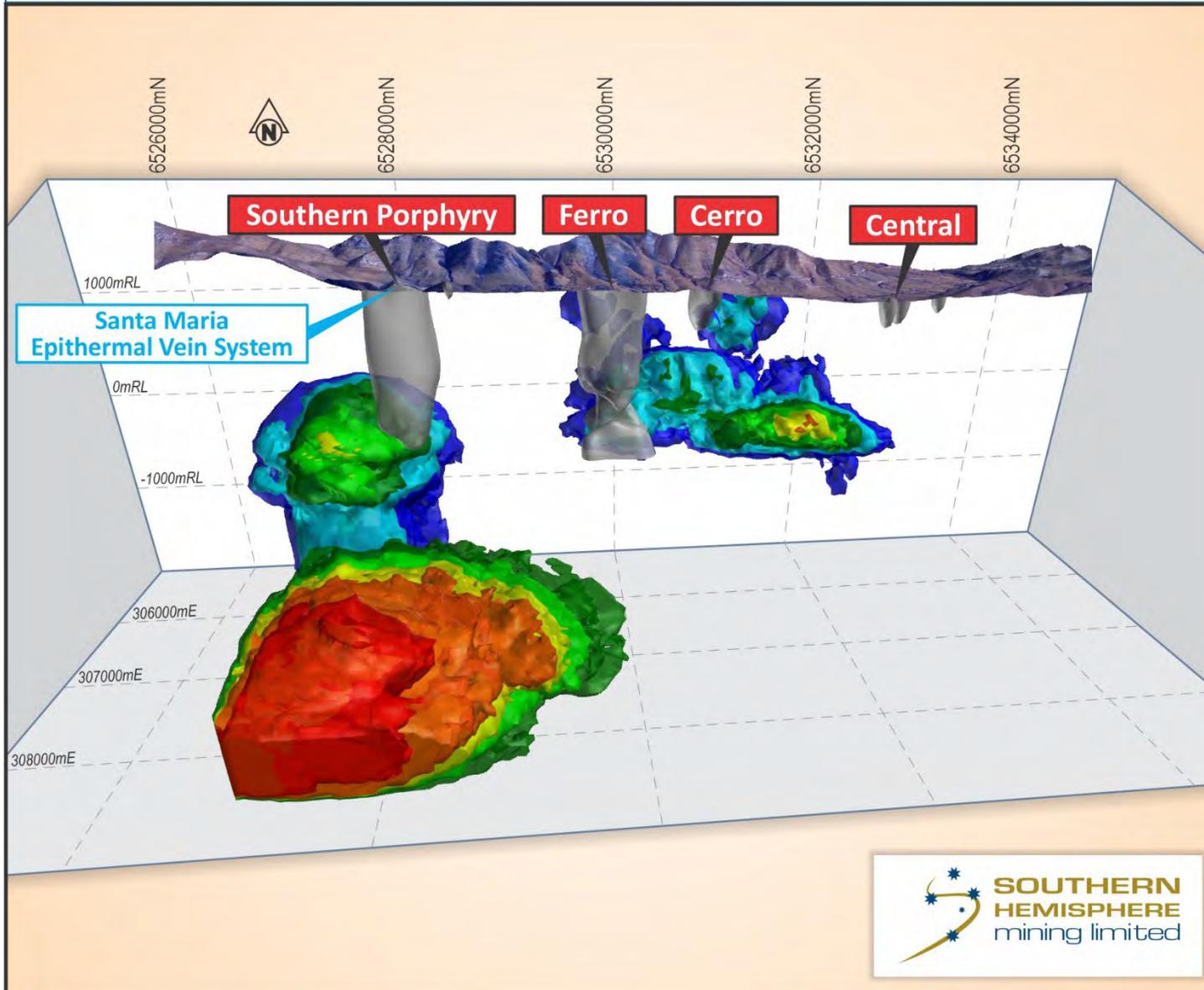
- The 100mRL (1200m deep) 3D Magnetic Inversion Model slice shows *the three deposits are from the same porphyry rootstock at depth* shown in magenta
- The Curiosity Target -Southern Porphyry is associated with a different porphyry stock

# Curiosity (Southern Porphyry) Large Copper/Gold Target

Subvertical Santa Maria epithermal vein system with no drilling (Looking ESE)  
Outcrops for 500m - 35 to 50m wide with several historical workings which sit directly above the Curiosity Target 3D footprint model –shown on next slide



# Fathom 3D Litho-Geochem Modelling – Two Large Targets



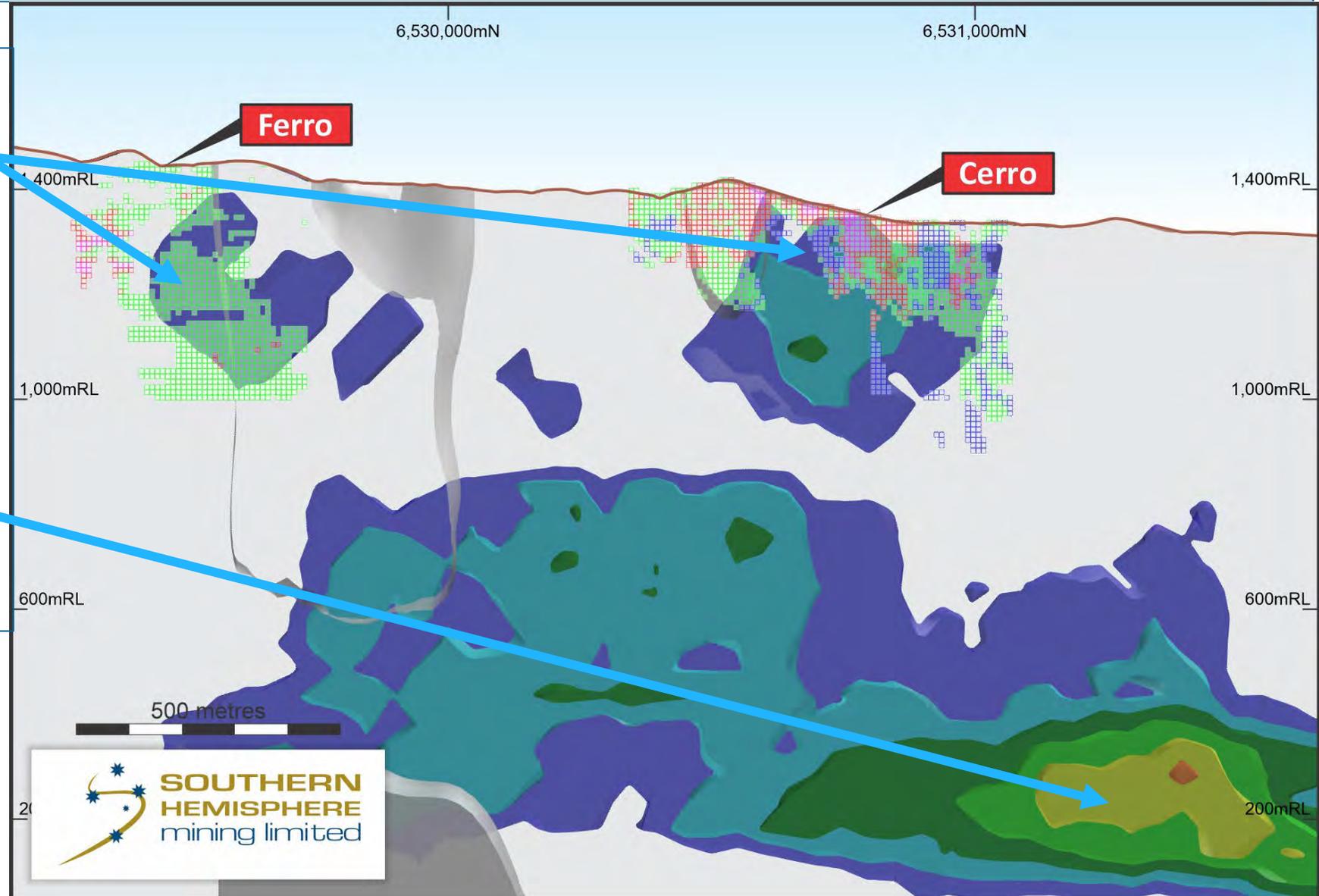
- 3D soil geochemical footprint modelling identified two large targets
- Cerro-Ferro in and below resources
- The Curiosity target at Southern Porphyry is located 550m below the Santa Maria epithermal vein system
- Diameter of over 1km expanding to over 2km diameter at depth
- 3D drone magnetic inversion completed, further supporting the targets (shown in grey)
- IP, Mag complete, MT part done- extending and tighter spacing in progress to refine for drill target



# Cerro-Ferro large target- 2km length below ore blocks

Cerro-Ferro modelling is working as it is identifying targets where we have JORC resources

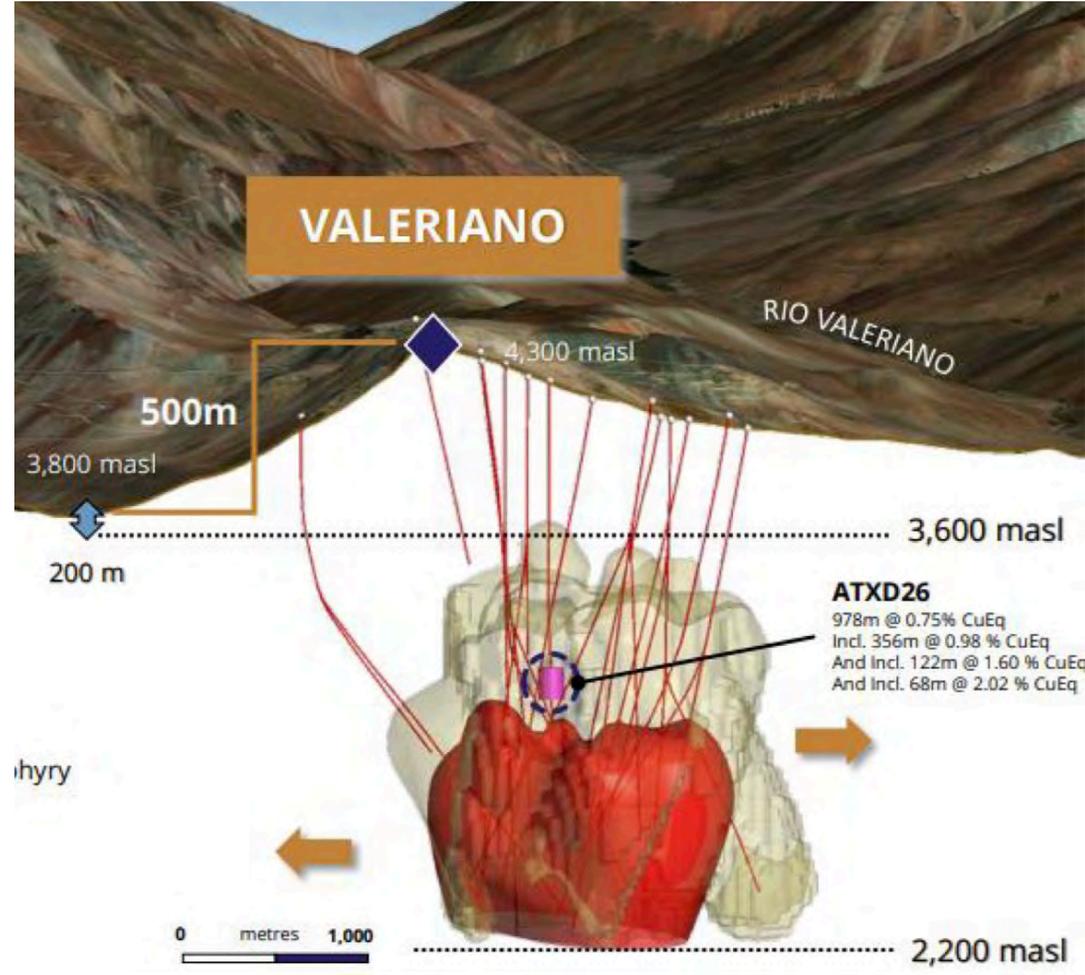
Studies in progress to improve the deeper copper core targets for drilling



# Chile- Deepest Drilling-2208m –Case Study

Atex Resources- TSX:ATX.V

Record hole depth 2208m DDH ATXD25 2024- Valeriano deposit



Agnico Eagle  
invested \$40m for  
13% of Atex- 25  
Oct 2024

“Llahuin is only  
just starting to be  
drilled deeper-  
what is the prize  
at depth?”

# Clear Direction Forward

## Open Pit Resources Expansion

Drilling in progress for a major expansion of the Llahuin resource towards a ~20+ year open pit style mine. +12 years already in M+I+I resources

MT geophysics being extended over Cerro and Central, and more detail over Curiosity

Diamond drilling to depth Cerro-Ferro and TBA Curiosity Q1-2 2025

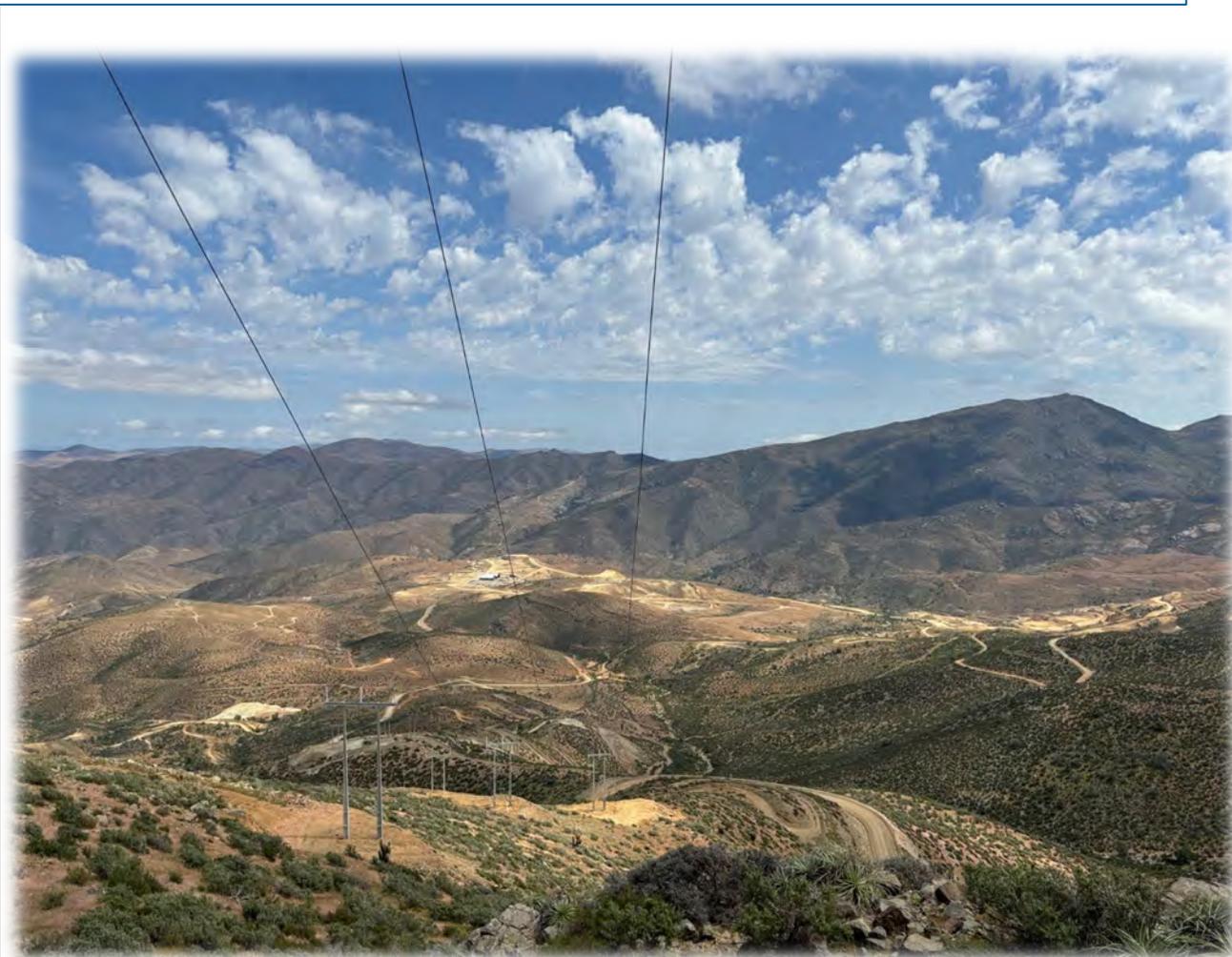
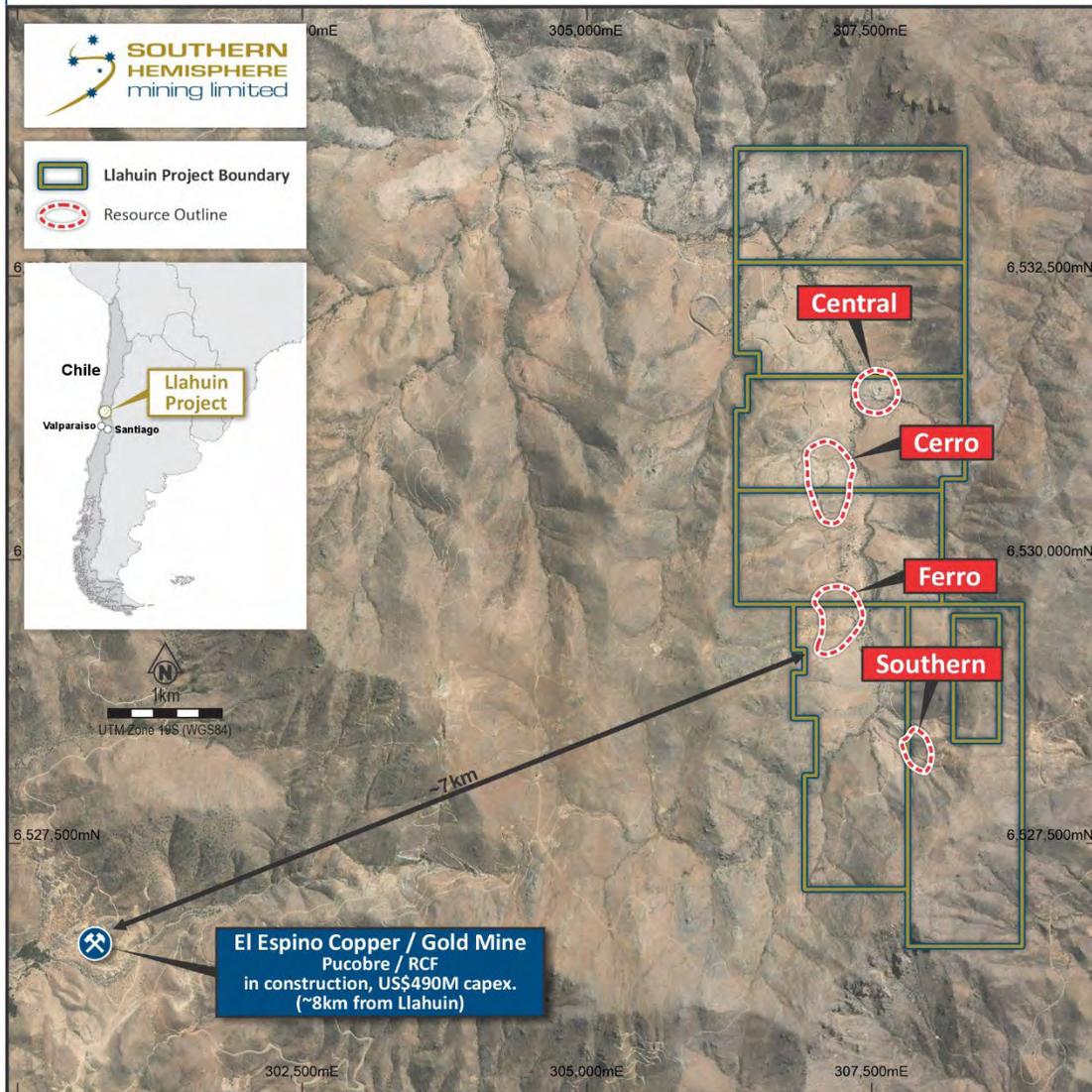
Upgrade JORC Resource Q2 2025 on track



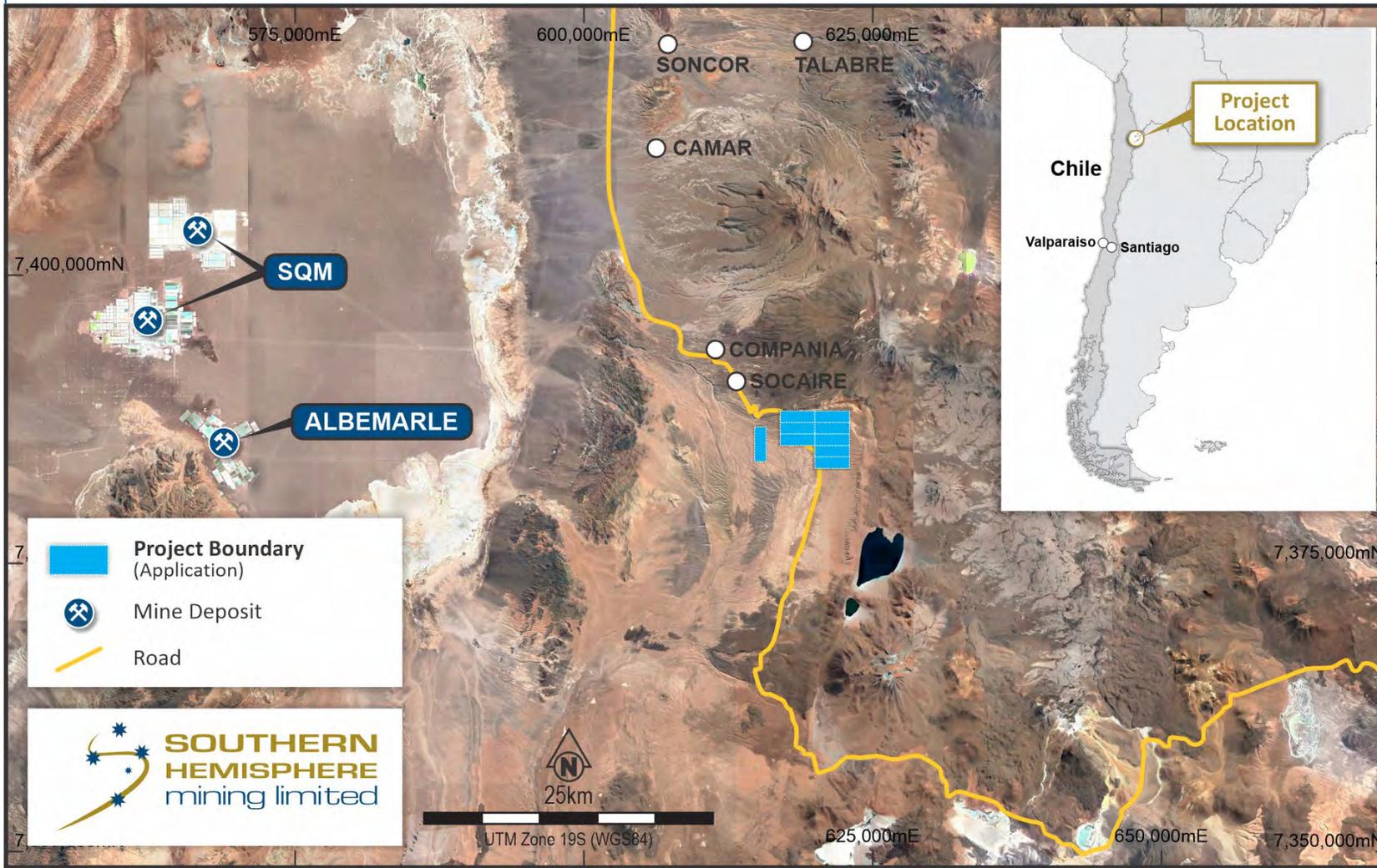


# Coquimbo Region Emerging

## New El Espino Copper Mine in construction 8km West of Llahuin



# Lago Lithium Brine Project -Lithium Triangle -Atacama Region Chile



- Acquired 2023 -100%
- Salar feeding into the World Class Atacama lithium Brines operations
- Unexplored
- Excellent access
- Large land position (all surrounding tenure now held by Li operators)
- Marketing this project

# Los Pumas Manganese Project- Chile

- 100% owned- located Northern Chile
- Marketing this project for development/offtake partners for project equity funding
- Indicated and inferred resource 30.3Mt @ 6.24% Mn (2.5% Mn COG)
- Large low grade inferred 264mt @ 2.4% Mn
- Opportunity to increase grade- feeder zones undrilled
- Low iron and phosphorous, high silica (beneficial)
- Outcropping at Surface
- Simple Mining ~ 2.5mtpa plant
- Strip ratio circa 1:1
- Excellent logistics and near mine infrastructure- incl recent refurbishment of Arica Railway
- Plan: Production of either soil improvement product (agriculture), electrolytic Mn, and/or Battery Grade HPMSM, at site, utilise hydro and solar power and minimise carbon footprint
- Chile Free Trade Agreement with USA, potential USA Inflation Reduction Act benefits





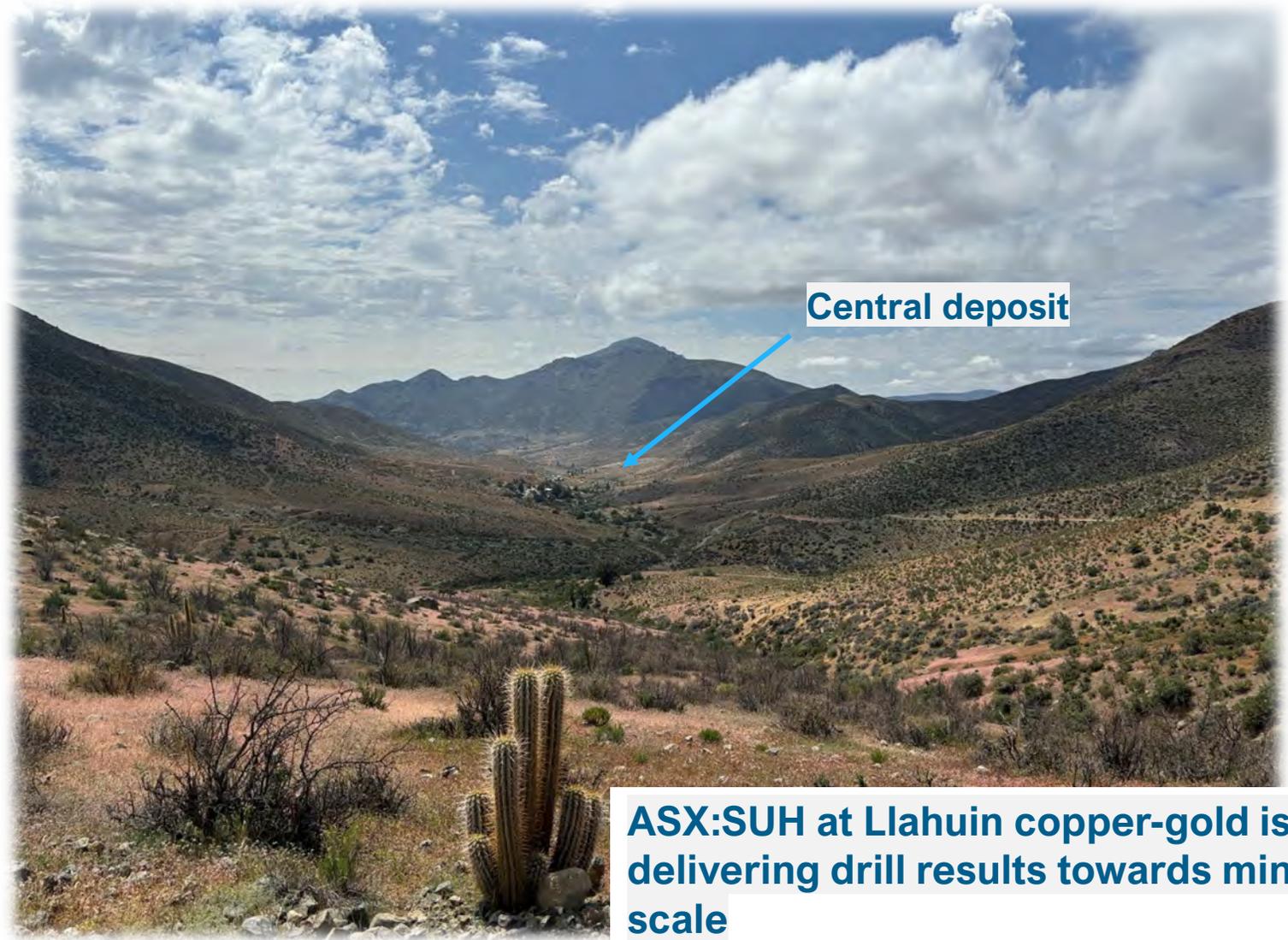
# Investment Proposition

- **Dominant land position**
- **“A” rating jurisdiction**
- **Substantial copper-gold resource to build on**
- **Extensive targets**
- **High impact drilling delivering excellent grades from surface**
- **Management expertise**
- **Low overheads**
- **Well funded**
- **Multiple monetisation options**

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**ASX:SUH at Llahuin copper-gold is delivering drill results towards mine scale**