



LLAHUIN – “ONE OF THE WORLD’S NEXT LONG-LIFE COPPER MINES”

PDAC 2024 ASX: SUH FWB: NK4

www.shmining.com.au





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This presentation includes certain forward-looking statements about future events and/or financial results which are forward-looking in nature and subject to risk and uncertainties. Such forward-looking statements or information, including but not limited to those respect to the development of the project, metal prices, metallurgical results and resource estimates, involve known and unknown risks, uncertainties and other factors which may cause the actual result, performance or achievements of the company to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements or information. Forward-looking statements include without limitations, statements regarding the company's plans, goal or objectives and future completion of mine feasibility studies, mine development programs, capital and operating costs, production, potential mineralization, resources and reserves, exploration results and future plan, and objectives. Forward-looking statements can generally be identified by the use of forward-looking terminologies such as "may", "will", "expect", "intend", "estimate", "anticipate", "believe" or "continue" or the negative thereof or variations thereon or similar terminology. Forward-looking information involve known and unknown risks, uncertainties and other factors that may cause the actual results, performance or achievements of the company and or its subsidiaries to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. A copper exploration company is subject to risks associated with mining in general and pre-development stage projects.

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.

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.

LARGE COPPER/GOLD MINE EMERGING IN CHILE

Llahuin is Southern Hemisphere Mining's flagship copper/gold project, located 350km North of Santiago, Chile

Los Pumas
Battery Metals
Manganese Project

Llahuin
Copper Gold Moly Project
680,000t CuEq Resource

Lago
Lithium Brine
Project

- **LLAHUIN COPPER/GOLD (100%)**
- **Flagship project: Increasing open pit resources to 20+ year mine life**
- **LAGO LITHIUM BRINE PROJECT (100%)**
- **Exploration advancing**
- **LOS PUMAS BATTERY MANGANESE PROJECT (100%)**
- **Off-take partner engagement in progress for equity funding to advance to DFS for Manganese and HPMSM product**



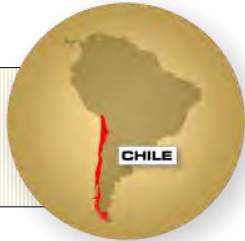
Board and Management: Our Team Knows Copper Mining

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

Mark Stowell B.Bus CA	Chairman	Internationally experienced resource sector executive. Founding Chairman of Mawson West Ltd; an international copper producer & 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.
David Frances BSc Geol (Hons)	Director	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, & explorer in the DRC.
Natalie Dawson B.Com CPA MBA	Director	Significant Australian & 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).
Richard Caldwell B.Ec LLB F.Fin	Director	Formerly Head of Corporate Finance & Equity Capital Markets at StoneBridge, Head of Equity Capital Markets at Burdett Buckenridge & Young; before holding several senior management positions with Citibank Sydney, JP Morgan London.
Adam Anderson B.Sc Geol (Hons) MAusIMM	Exploration Manager	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.



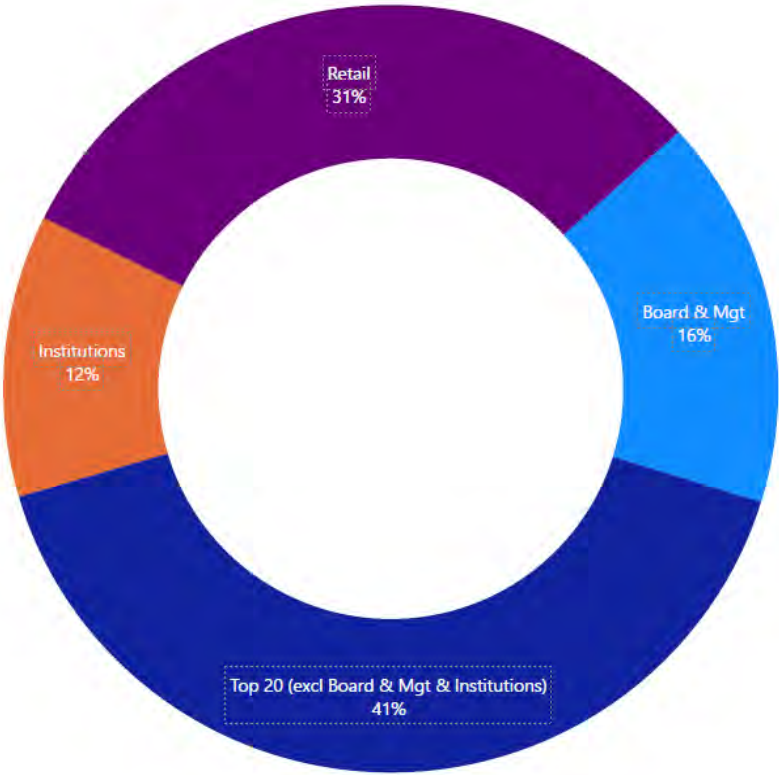
Capital Structure



Summary

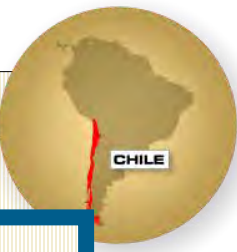
Fully paid ordinary shares	590,525,728
Unlisted options (mgt)	13,750,000
Cash and receivables	~\$4m
Market cap at \$0.04	\$25m

Shareholder Distribution



Notes
Unlisted Options Exercisable Nil (Performance KPI) , Expiry 30 Jul '26
Currency is AUD

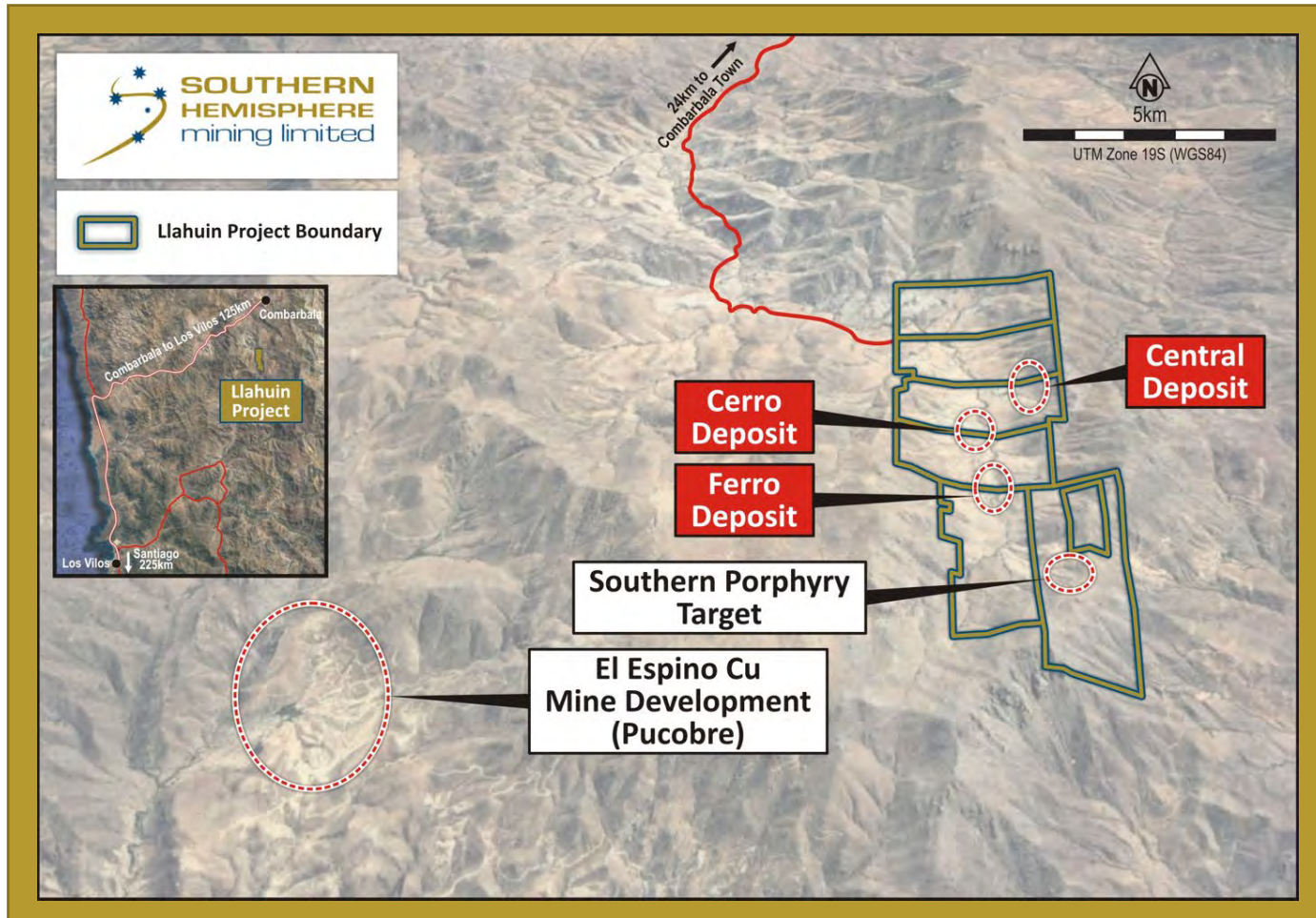
Straight Forward Investment Metrics



- ✓ **Chile has an International Credit Rating of A**
- ✓ Geopolitical trends favouring resource investment in Australia and South America
- ✓ **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
 - ❖ Not in a water vulnerable area (minimal ESG impact)
- ✓ **ESG**
 - ❖ Low population area
 - ❖ Long term community agreement in place
 - ❖ Local workforce

*Map Showing Llahuin location in relation to Santiago and Andacollo
Copper mine (Teck)*

Llahuin Copper/Gold Project 169Mt @ 0.4% CuEq M+I+I and Growing



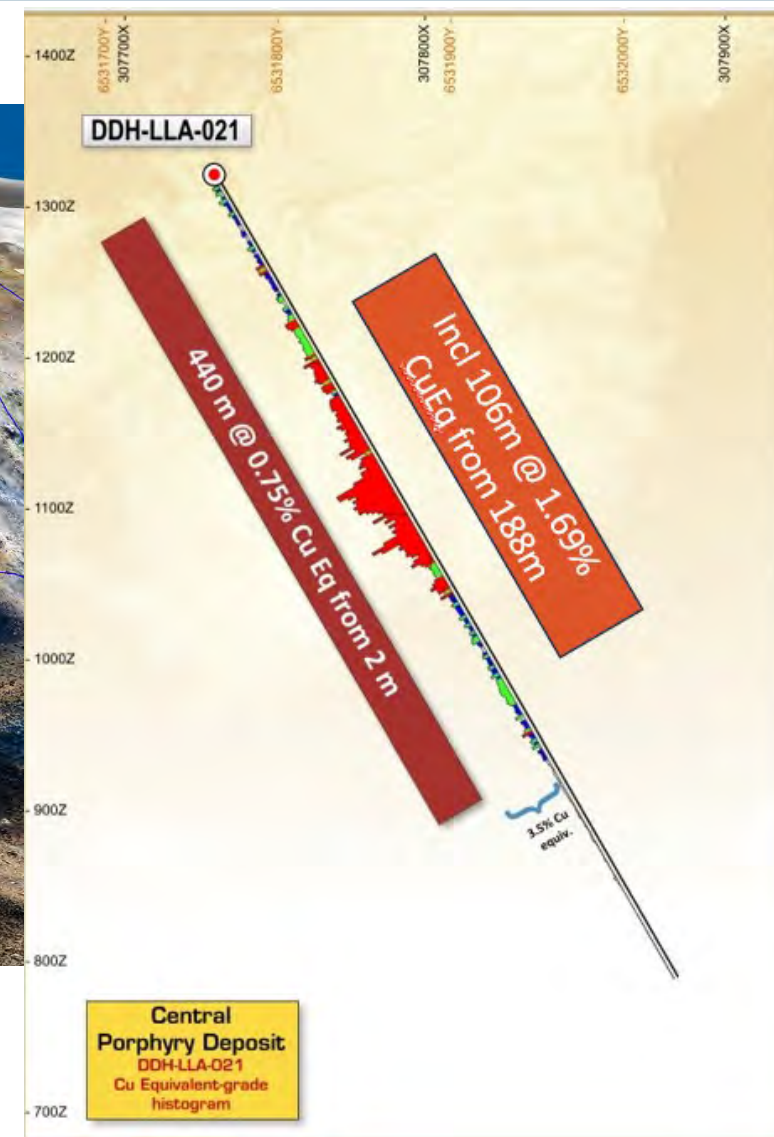
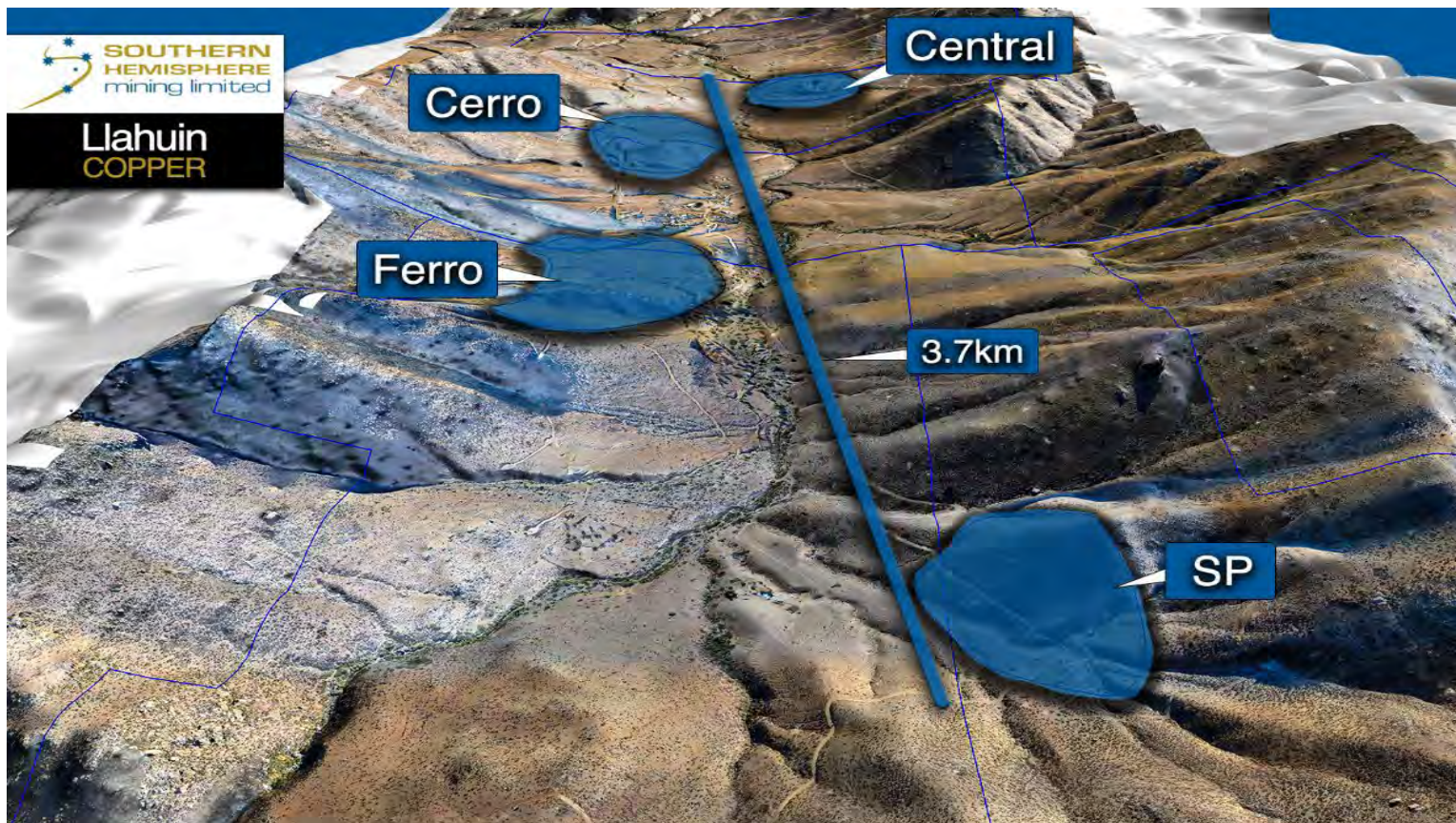
What's New?

1. *Geochemistry works-+2000 samples*
2. *Full surface mapping and sampling program instigated identifying the vein structures and orientations*
3. *Relogged +20km of core, vein density, multi-element assay etc*
4. *Underground adit sampling and surveying*
5. *New drone mag*
6. *Re-interpretation of geophysics data*
7. *Derivation of a new geological model identifying major scope for expansion*
8. *Using a variety of new AI and modern tools to advance location of key higher grade mineralised zones*

DRILLING FOR MAJOR RESOURCE GROWTH 2024

82m @ 0.67%CuEq from 46m: 23LHRD027

The Llahuin Valley Hosting a Cluster of Copper/Gold Deposits With More to Discover



Top Drill Results and Rock Chip Samples



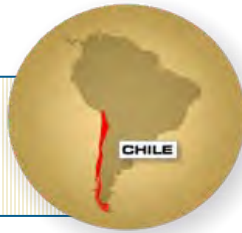
HOLE ID	From	To	Width m	CuEq %	LOC
21LHRC003	0	90	90	0.62%	CENTRAL
21LHRC009	0	69	69	0.47%	CERRO
DDHLLA021	2	440	438	0.75%	CENTRAL
Incl	182	288	106	1.69%	CENTRAL Higher grade at depth
DDHLLA025	102	468	366	0.63%	CENTRAL
DDHLLA026	168	422	254	0.52%	CENTRAL
DDHLLA027	70	396	326	0.56%	CENTRAL
DDHLLA043	416	450	34	1.49%	CENTRAL Higher grade at depth
23LHRC027	0	156	156	0.51%	CERRO
23LHRC028	32	168	136	0.47%	CERRO
23LHRC042	0	48	48	0.45%	FERRO

Several veins in areas outside known resources demonstrate very high-grade copper $\pm$ gold $\pm$ silver veins occur in the project area

Sample ID	WGS Easting	WGS Northing	RL	Cu %	Au_ppm	Ag_ppm
22LHR000092	307803	6531901	1382	17.5	0.23	2
22LHR000105	306685	6530575	1503	16.58	0.94	1
22LHR000106	306686	6530666	1491	16.27	1.13	4
22LHR000087	307826	6532092	1437	11.3	0.84	8
22LHR000088	307898	6532089	1458	6.99	0.46	2
22LHR000090	307837	6532105	1447	4.88	0.53	2
22LHR000184	306542	6531924	1354	4.12	0.36	1495
22LHR000086	307591	6532644	1326	4.12	0.7	238
22LHR000013	307913	6528823	1544	3.15	0.06	22
22LHR000183	306558	6531935	1356	2.74	0.58	1045
22LHR000158	306889	6531811	1336	2.43	4.39	345
22LHR000214	306694	6532311	1287	1.66	4.53	3
22LHR000103	307430	6532136	1318	1.39	6	24 Ref ASX 2.3.2023



Mineral Resource Estimate Independently Certified 2013



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%
Total	112 @ 0.42%	37 @ 0.37%	149 @ 0.41%	20 @ 0.36%

Zone tonnages 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

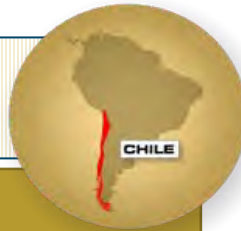
Higher Grade Core Resources at Llahuin (Measured + Indicated Cat)					
Cu Equiv % Cutoff	Tonnes Million	Cu %	Au g/t	Mo %	Cu Equiv %
0.34	70.6	0.34	0.14	0.008	0.48
0.36	60.3	0.35	0.15	0.008	0.50
0.38	52.0	0.37	0.16	0.008	0.52

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 does not include recent years drilling

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

Highlight Drill Results

*Note higher grades at depth

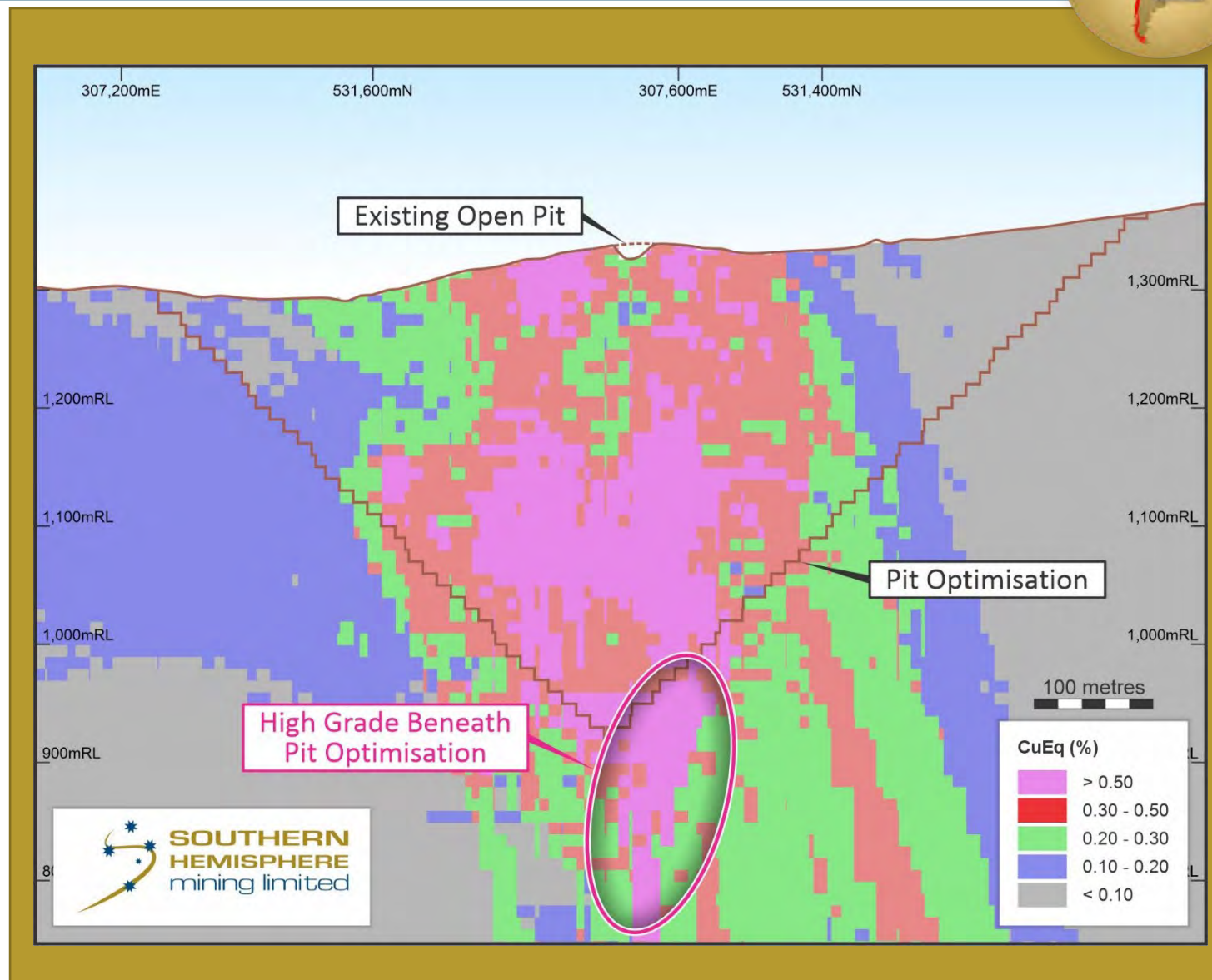
RC-LLA-010: 496m @ 0.45%CuEq from surface, incl 126m @ 0.7% CuEq from 210m

DDH-LLA-021: 440m @ 0.75% CuEq from 2m, incl: 106m @ 1.69% CuEq from 182m

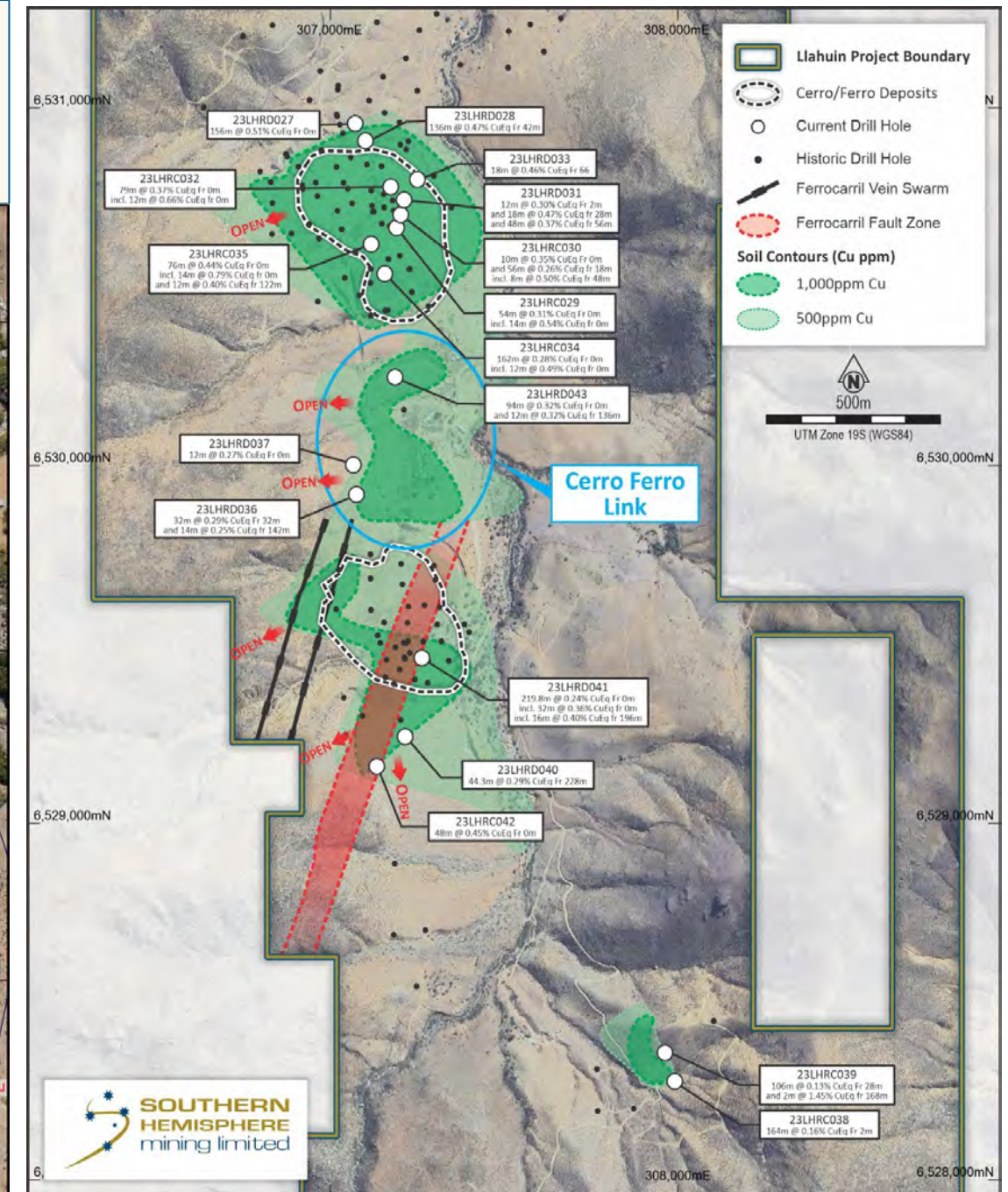
DDH-LLA-025: 366m @ 0.63% CuEq from 102m

DDH-LLA-026: 326m @ 0.56% CuEq from 70m, incl:

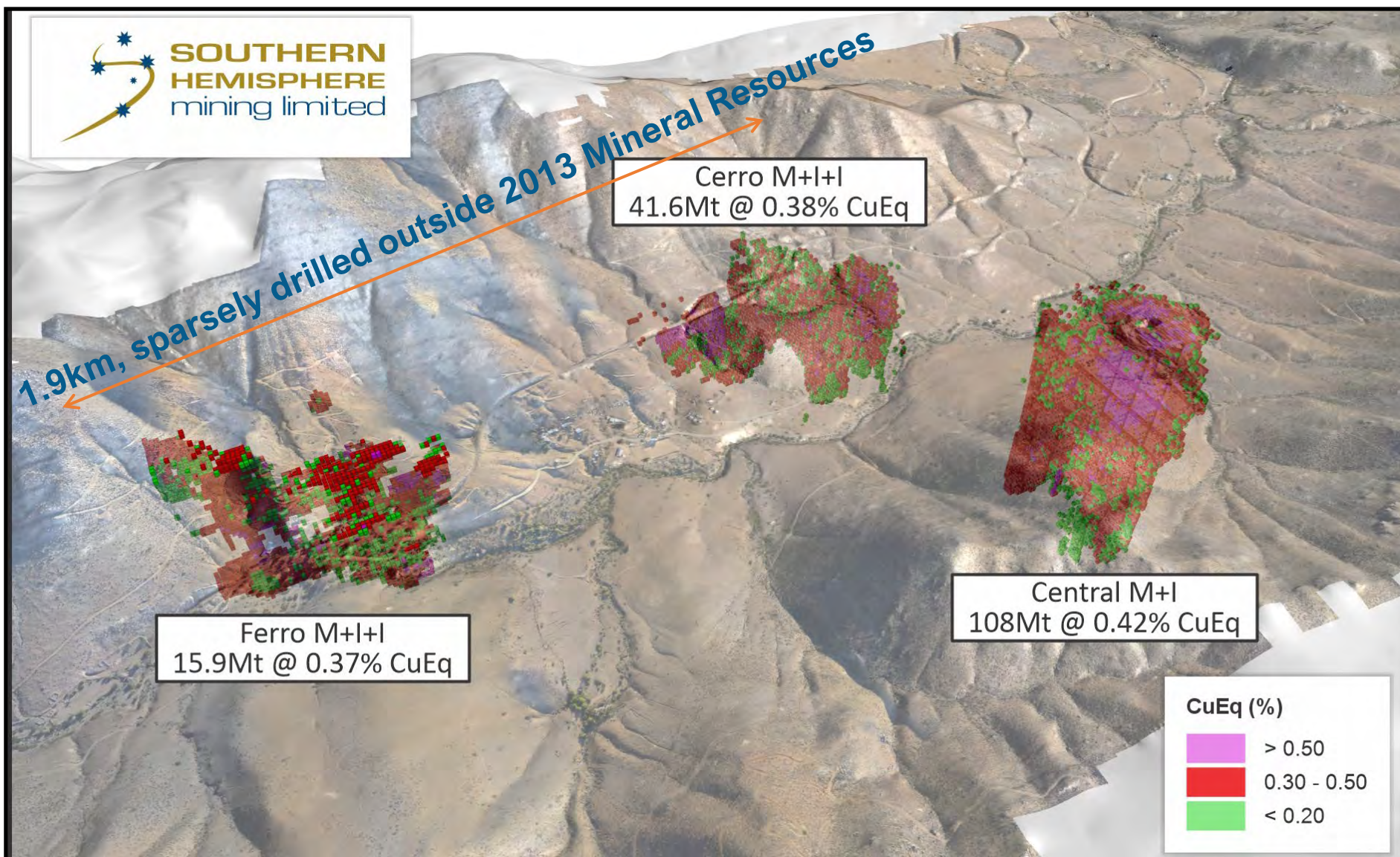
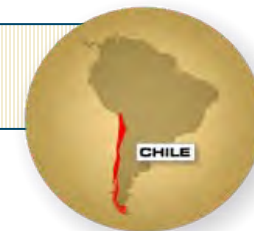
126m @ 0.80% CuEq from 200m



Geochemistry, geophysics and drilling towards one large 1.9km strike deposit

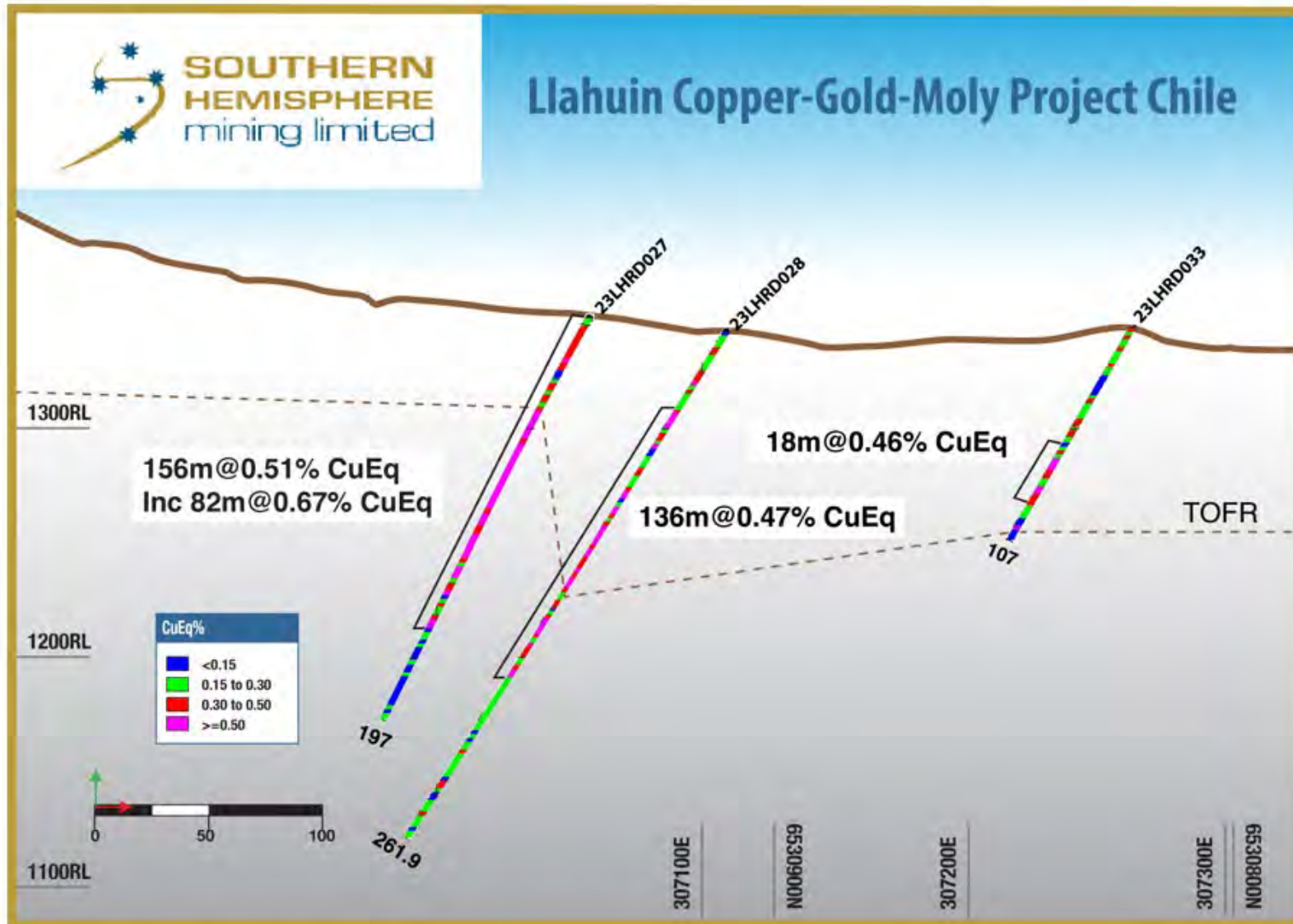


Llahuin Block Model and Topography-Good Mining Configuration



Recent Drill Results from Cerro-Ferro

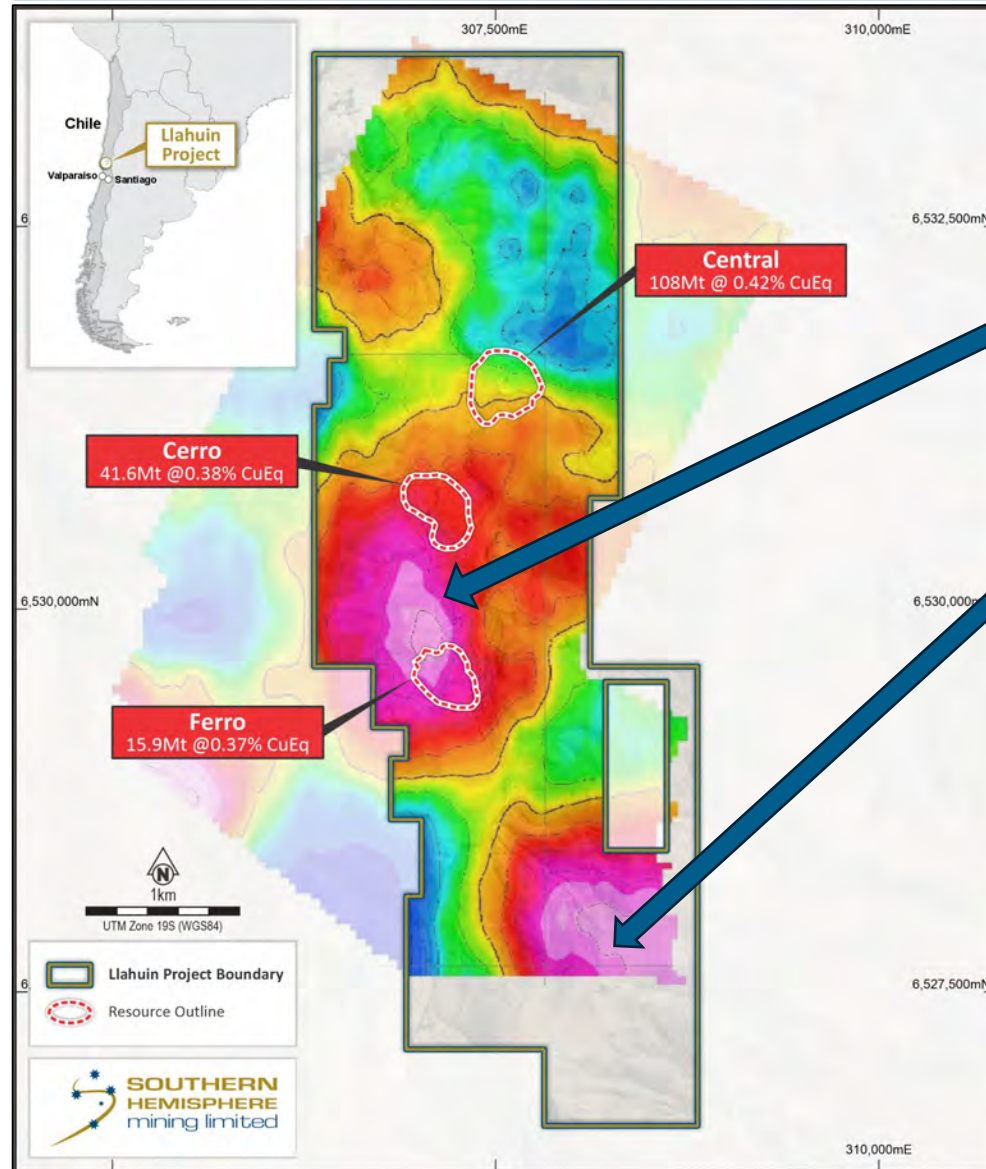
82m@0.67%CuEq from 46m



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

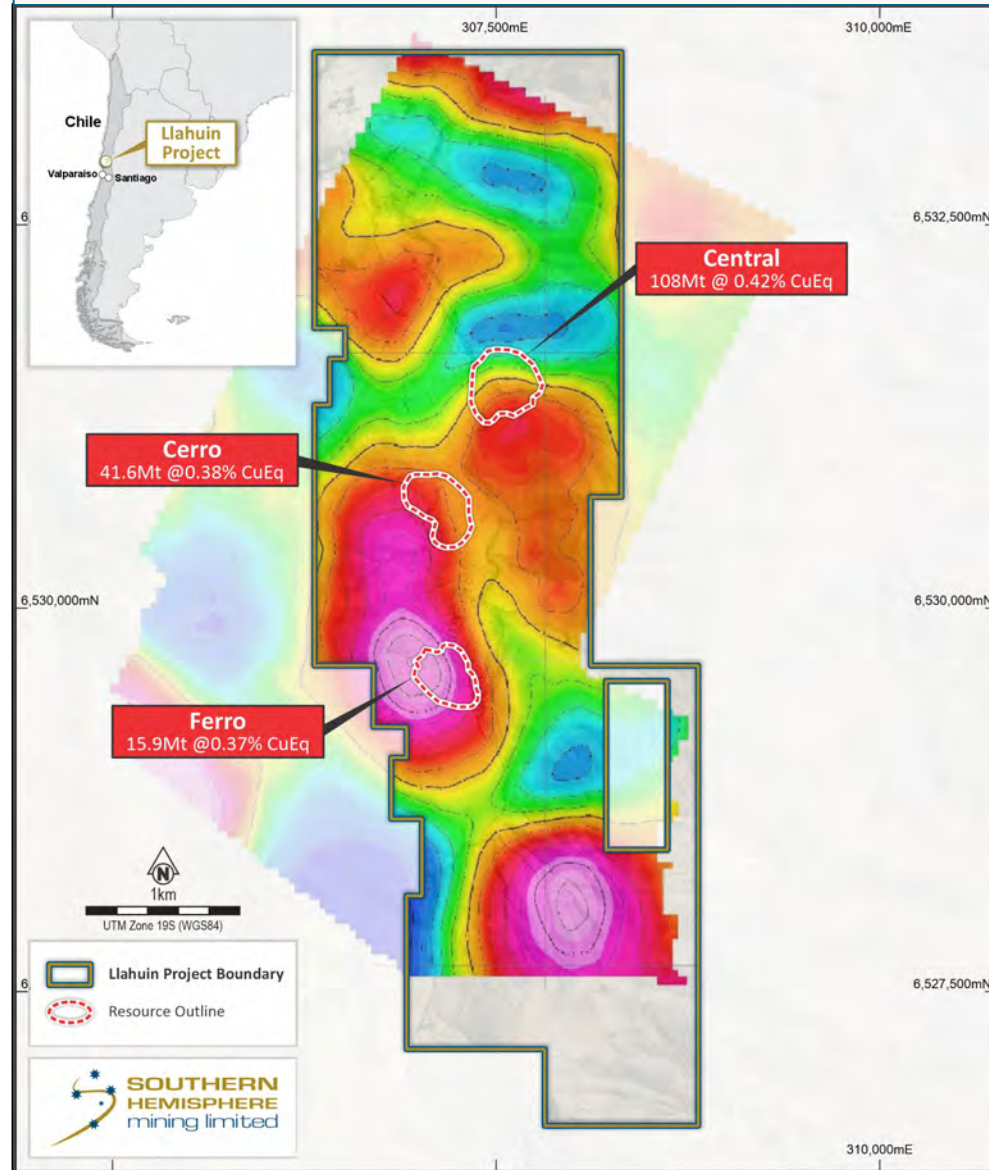
Note that historical holes are omitted from the cross section for the purpose of clarity, as they are oblique to the section, at a sub optimal angle to interpreted mineralisation

Cerro-Ferro Deep Target at 1,200m



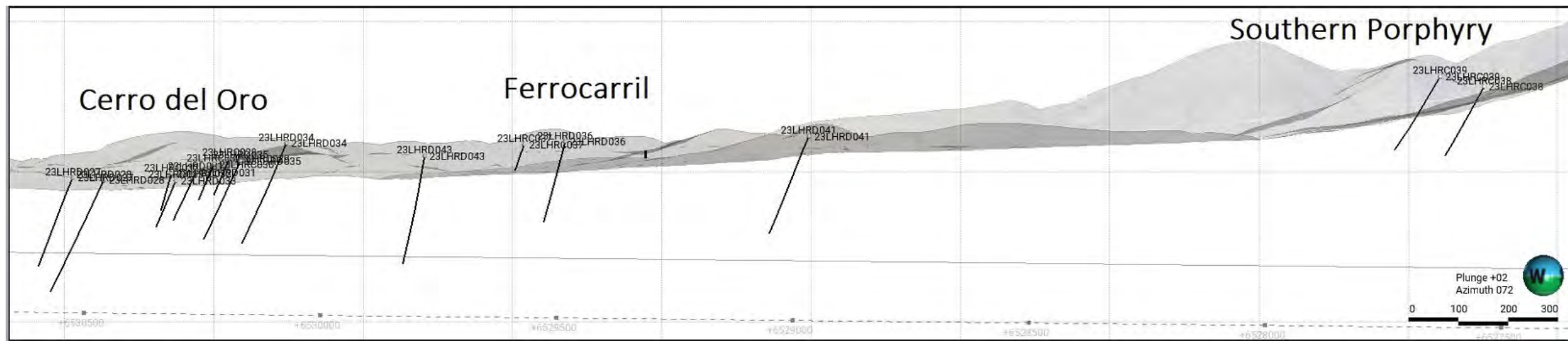
- The 100mRL (1200m deep) 3D Magnetic Inversion Model (MIM) slice shows the three deposits are from the same porphyry rootstock at depth shown in magenta
- The Southern Porphyry (SP) is associated with a different porphyry stock

Cerro-Ferro Deep Target at 700m



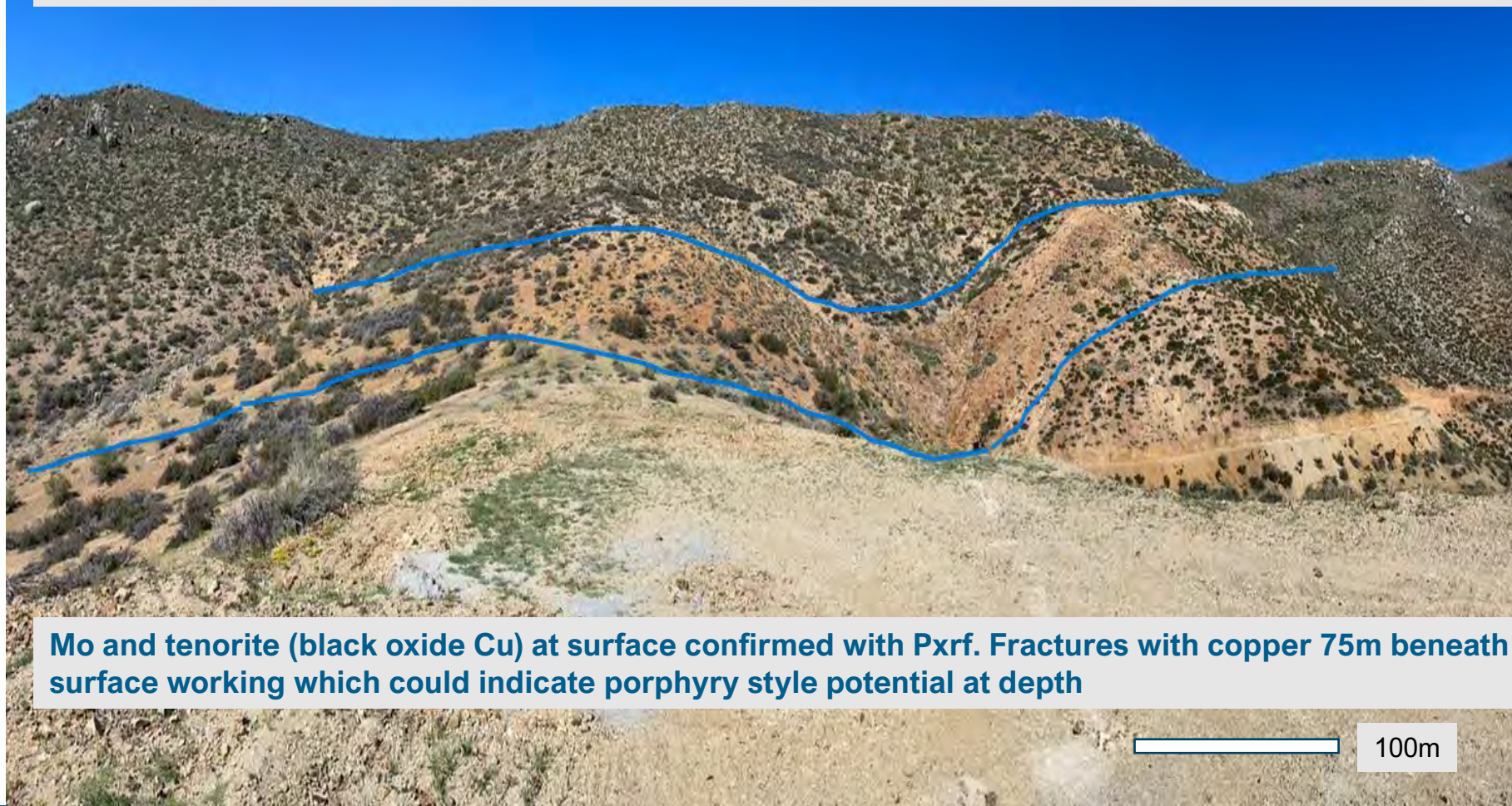
- The 500mRL (700m deep) 3D Magnetic Inversion Model slice indicates the main porphyry stock is associated with the Cerro-Ferro zone

Long Section of Cerro-Ferro to SP and 2023 Drill Traces



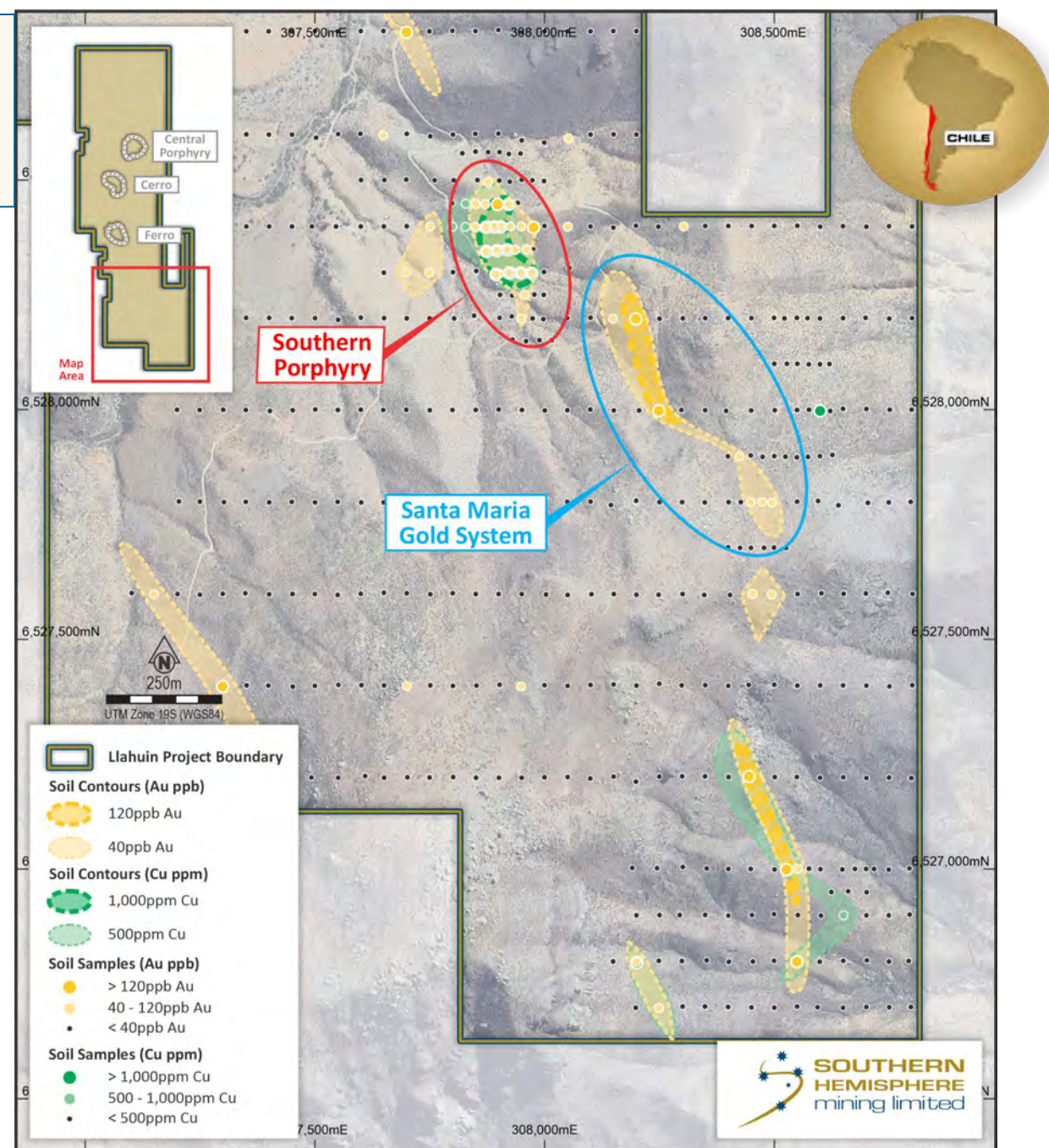
Southern Porphyry Large Copper/Gold Target

Subvertical Santa Maria gold system with no drilling (Looking ESE)
Outcrops for 500m - 35 to 50m wide with several historical workings.



Southern Porphyry Large Copper/Gold Target

- Copper/Gold geological and geochemical targets
- Field mapping and rock chip sampling completed to interrogate the broader target area and generate drill targets
- Numerous surface showings of copper and gold in artisanal workings throughout the area
- Soil anomalies are copper rich in the north and gold rich in the south
- Potential for blind copper targets in the south
- 23LHRC038 intersected 176m at 0.15% CuEq
- Entire length of hole mineralised
- In the mineralised system, but more drilling required to find the prize





Clear Direction Forward



Open Pit Resources Expansion

- Drilling a major expansion of the Llahuin resource towards a ~20+ year open pit style mine. +12 years already in M+I+I resources
- Studies in progress to refine modelling of current mineralised zones for potential increase in grade and fewer tonnes

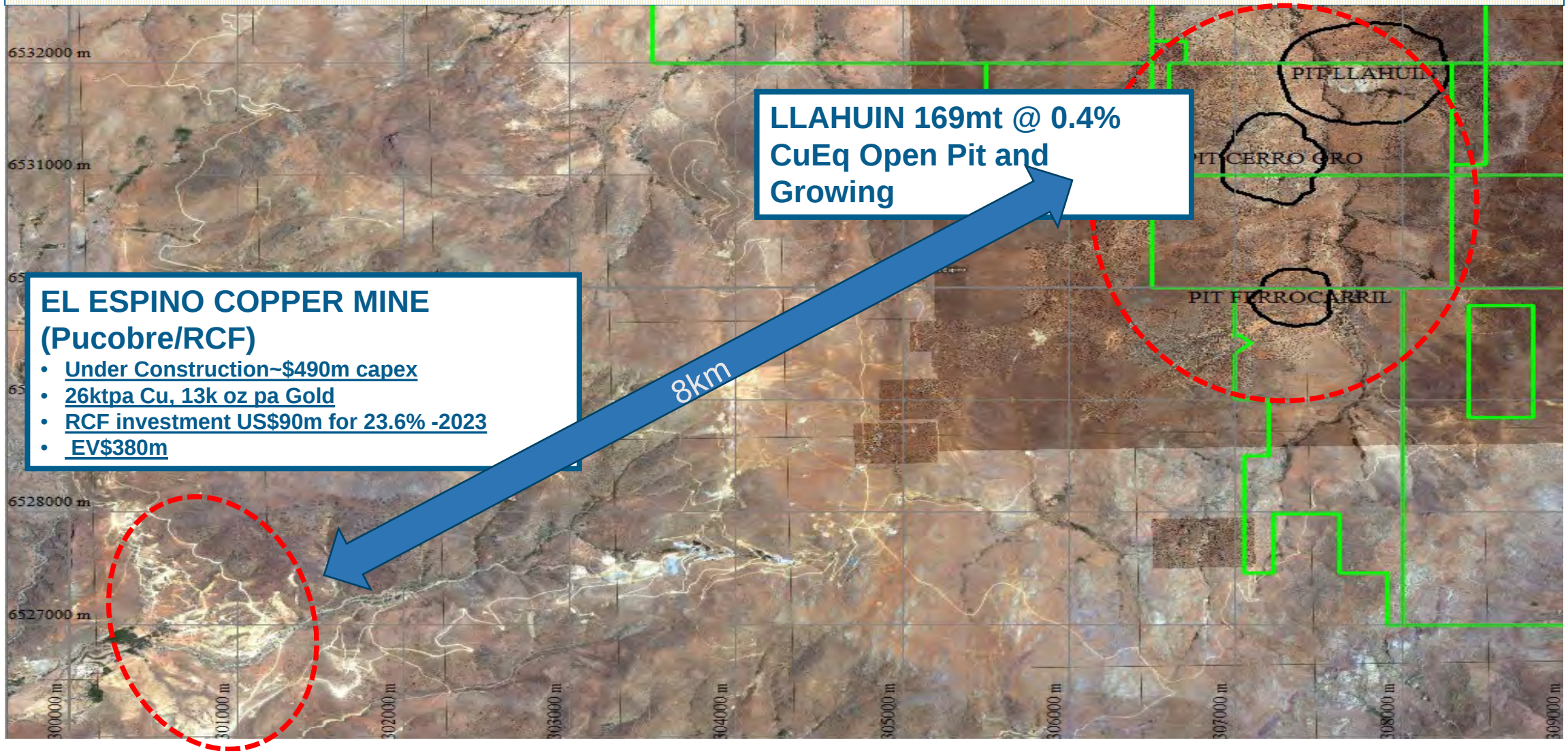
High Grade Copper Feeder Zones

- Underground style high grade copper/gold target is significant: 7km copper corridor
- AI, Geophysics, and Geochem in progress to refine targets and define new targets
- Diamond holes to intersect potential high grade feeder zones with chalcocite/chalcopyrite
 - Below current Cerro-Ferro deposits ~800m depth, and
 - Large Southern Porphyry copper gold target ~800m depth



Coquimbo Region Emerging

New El Espino Copper Mine in Construction 8km West of Llahuin



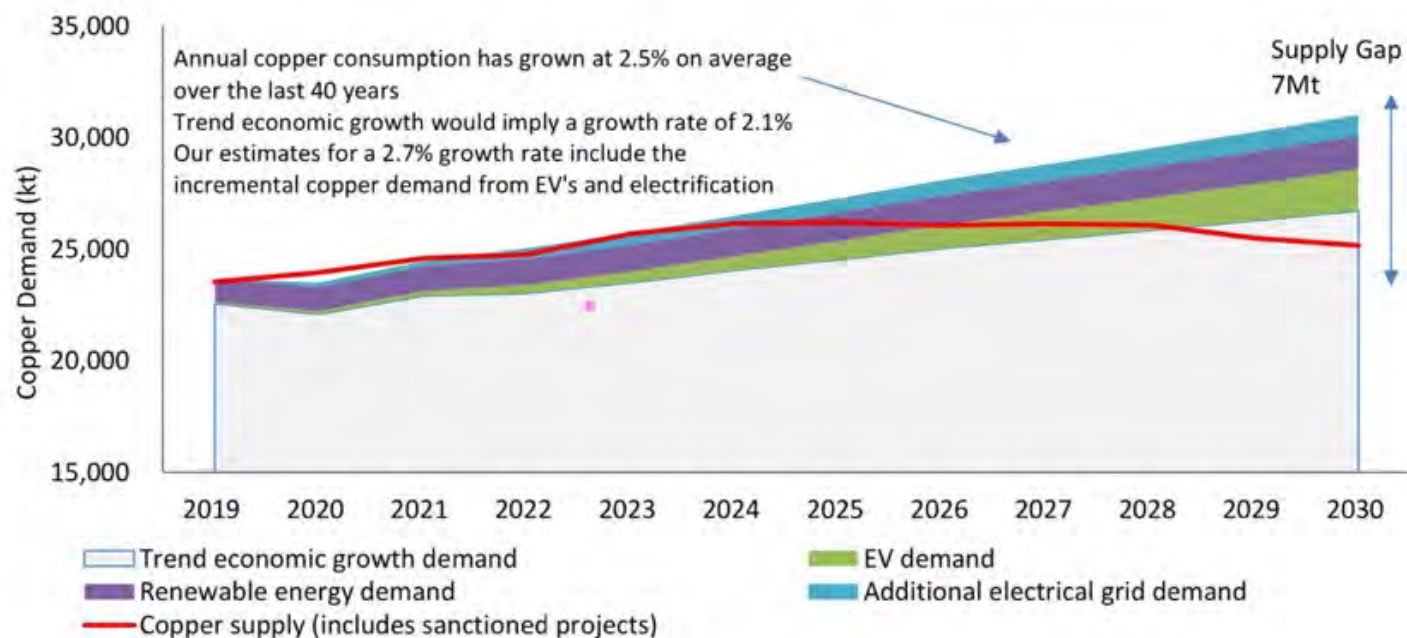
Copper Market Showing a Major Deficit Ahead

Electrification adds a new layer of demand

We assume an average of 2.7% demand growth from 2022-2030 which is slightly ahead of the annual average for the past 40 years of 2.5%. This factors in slowing demand growth in China as the economy transitions towards services and away from large infrastructure builds but is more than offset by growth in other Asian countries and from electrification.

The chart shows the potential impact on demand from EV penetration and other green electrification initiatives.

Significant new copper supply likely required over and above our base case (which includes already sanctioned projects)

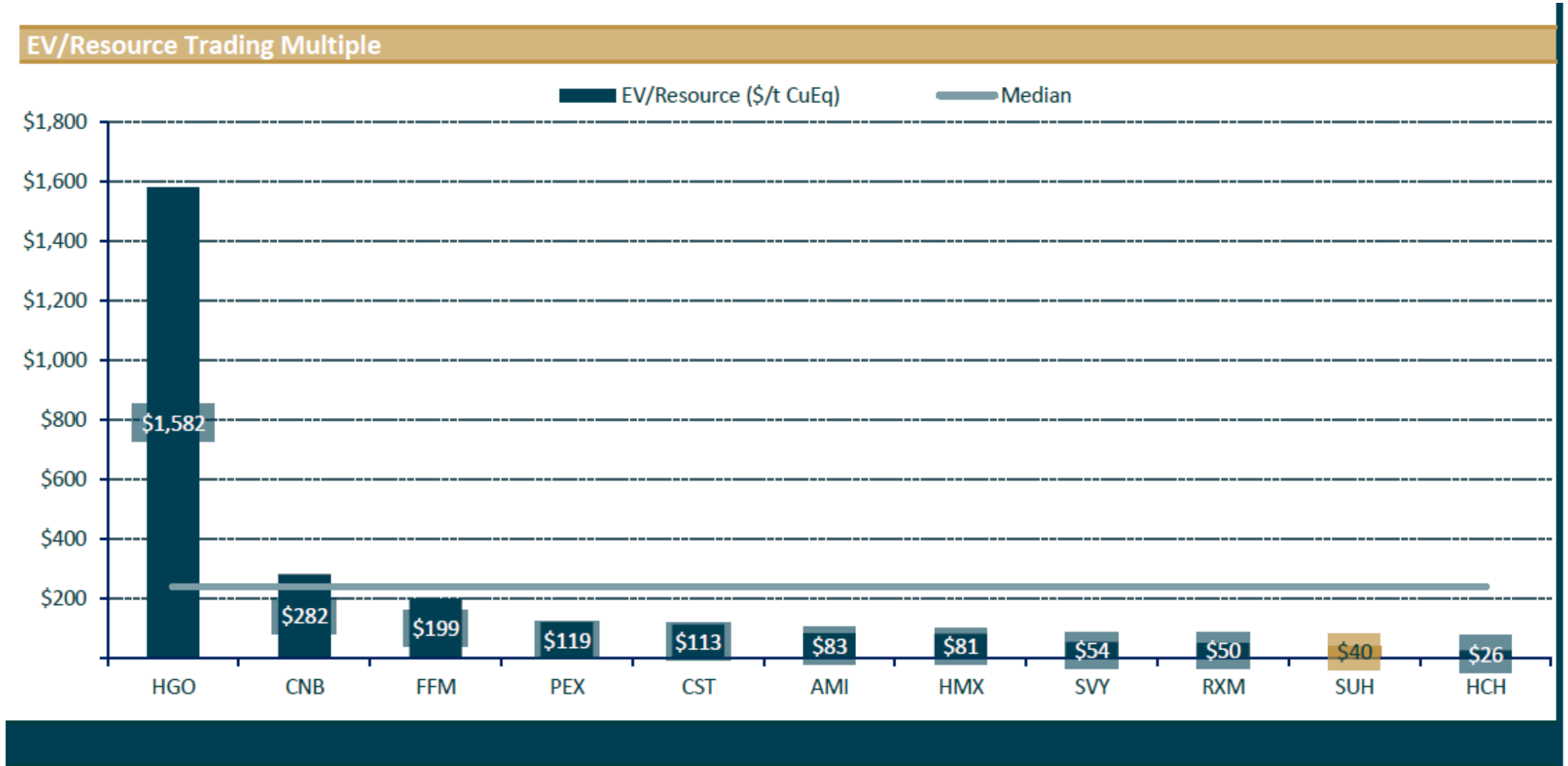


Source: Bloomberg, Wood Mackenzie, RBC Capital Markets estimates

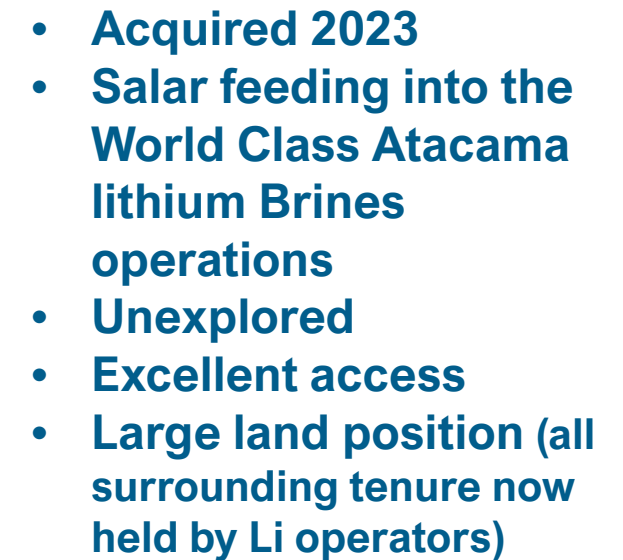


ASX Copper Explorers EV/Resource Trading Multiple

Source: Eurozhartleys February 23



A circular map of South America with Chile highlighted in red. The word "CHILE" is written in a white box over the red area.





Los Pumas HPMSM Battery Manganese Project- Chile



- 100% owned- located Northern Chile
- Advancing discussions with potential development/offtake partners for Project Equity Funding to DFS
- Indicated and inferred resource 30.3Mt @ 6.24% Mn (2.5% Mn COG)
- Large low grade inferred 264mt @ 2.4% Mn
- Opportunity for high grade feeder zone grade increase
- Low iron and phosphorous, high silica (beneficial)
- Close to 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 Manganese and 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





Appendix 1: Chile and Comparative Country Credit Ratings

Fitch's Country Credit Rating

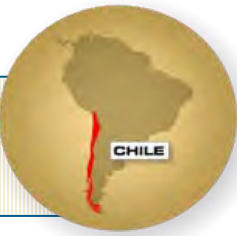
Chile	A- (Dec 23)
• Australia	AAA (May 23)
• Argentina	CC (May 23)
• Columbia	BB+ (Dec 23)
• Brazil	BB (Nov 23)
• Ecuador	CCC+ (Dec 23)
• Mexico	BBB- (Dec 23)
• Peru	BBB- (Oct 23)

Large copper mines require long term investments (20 year + mine life target)

Country risk for major companies and financiers is paramount

Most global copper miners operate in Chile- A Credit rating!

Thankyou



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