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# LLAHUIN – "ONE OF THE WORLD'S NEXT LONG-LIFE COPPER MINES"



### Disclaimer

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, 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 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.

CHILE

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. 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.

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# LARGE COPPER/GOLD MINE EMERGING IN CHILE



- LLAHUIN COPPER/GOLD PROJECT(100%)
- Flagship project: Increasing open pit resources to 20+ year mine life
- Large ~7km porphyry system, under explored and in a low altitude excellent mining location
- LAGO LITHIUM BRINE PROJECT (100%)
- Exploration advancing
- LOS PUMAS BATTERY MANGANESE (100%)
- Off-take partner engagement in progress for equity funding to advance to DFS for Manganese, Metallurgical Manganese and/or 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.
<b>David Frances</b> 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.
<b>Natalie Dawson</b> 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).
<b>Richard Caldwell</b> B.Ec LLB F.Fin	Director	Formerly Head of Corporate Finance & Equity Capital Markets at StoneBridge, Head of Equity Capital Markets at Burdett Buckeridge & Young; before holding several senior management positions with Citibank Sydney, JP Morgan London.
<b>Adam Anderson</b> 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	736,240,044
Unlisted options (mgt)	13,750,000
Unlisted Opts (broker) (10c, 17/06/27)	1,000,000
Cash and receivables*	~\$7.7m
Market cap at \$0.03	\$22m

SHAREHOLDER DISTRIBUTION Board & Mgt Institutions Top 20 Retail 13% 28% 29% 30%

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Substantial Shareholders Pictet Asset Mgt (Singapore) Pte Ltd 9.8% Merchant Holdings Pty Ltd (mgt) 9.4% Others: 6.5% and 5%

#### Notes

Unlisted Options Exercisable Nil (Performance KPI) , Expiry 30 Jul '26 Currency is AUD \* Cash at 30 June \$4.6m and net VAT refund net-ref March 24 Quarterly report

# JLIahuin Copper-Gold: Straight Forward Investment Metrics

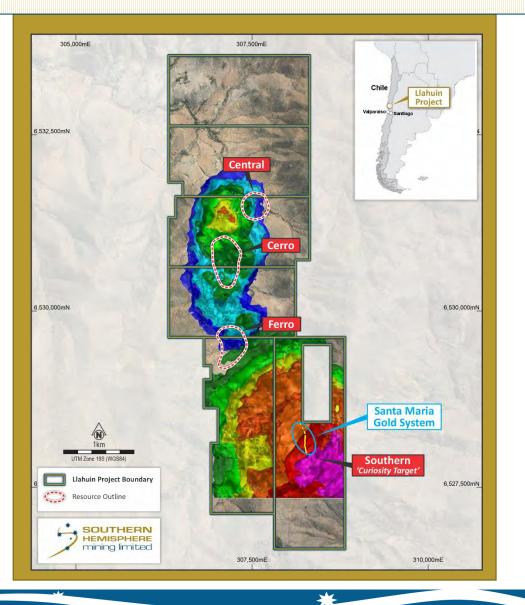


- Chile has an International Credit Rating of A
- Geopolitical trends favouring resource investment in Australia and South America
- Excellent Location
  - Low altitude at 1,300m
  - ~5km to grid power, 200km to Coquimbo Port
  - Combarbala town 24km (13,000popn), Santiago 350km
  - Sealed airstrip 20km
  - 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)

Southern Hemisphere Mining Limited I ASX: SUH

### 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, multielement assay, pulp composites etc

- 4. Underground adit sampling and surveying
- 5. New drone mag
- 6. Re-interpretation of geophysics data

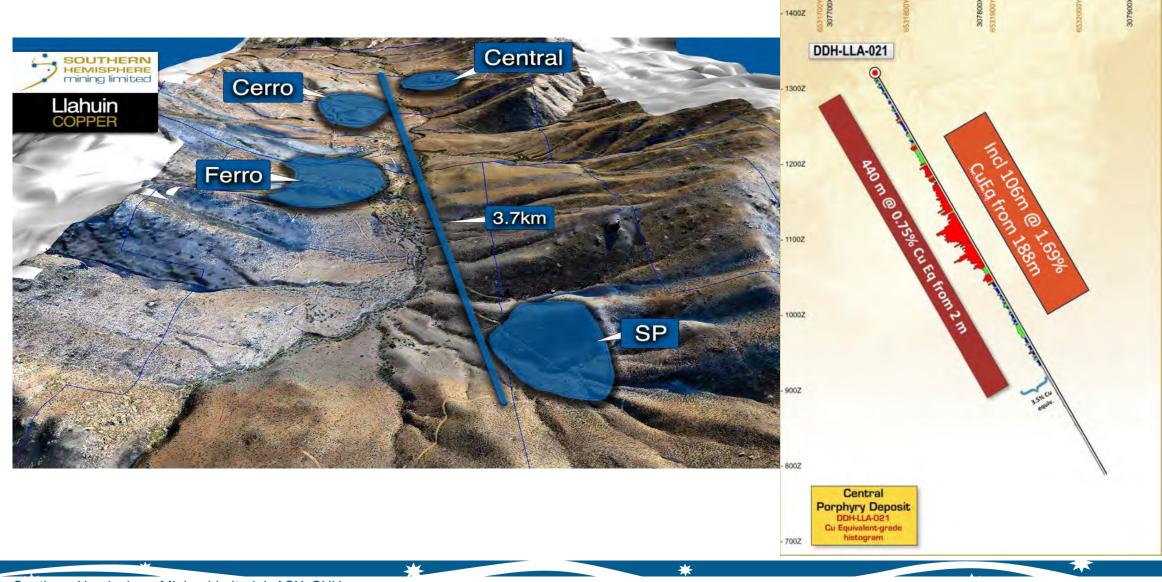
7. Derivation of a new geological model identifying major scope for expansion and higher grades deeper

8. Al and modern tools used to advance location of higher grade mineralised zones

DRILLING FOR MAJOR RESOURCE GROWTH 2024 -82m @ 0.67%CuEq from 46m: 23LHRD027

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



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#### **Top Drill Results and Rock Chip Samples**

2.3.2023

HOLE ID	From	То	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 ±- gold ±

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	<b>30</b> 6694	6532311	1287	1.66	4.53	3
22LHR000103	307430	6532136	1318	1.39	6	24 Ref ASX



#### Mineral Resource Estimate Independently Certified 2013, Upgrade in Progress for H1 2025

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 Liabuin Cu-Au-Mo Project       Cu Equiv % Cutoff     Tonnes Million     Cu %     Au git     Mo %     Cu Equiv %       0.26     26     0.19     0.17     0.005     0.34       0.28     20     0.20     0.19     0.005     0.38       Total Resources per zone at Liabuin Cu-Au-Mo Project       Zone     Measured (Mt)     Indicated (Mt)     Inferred (Mt)     Inferred (Mt)       Central Porphyry     101.2 @ 0.43%     7.3 @ 0.34%     108.5 @ 0.42%     2.8 @ 0.32%       Central Porphyry     101.2 @ 0.42%     37 @ 0.37%     144 @ 0.37%     1.5 @ 0.34%       Total     112 @ 0.42%     37 @ 0.37%     144 @ 0.37%     1.5 @ 0.34%     1.5 @ 0.34%       Containage at 0.28% Cutog Cutoff inducted in Resource Estimate - Grades are shown in Cut Equiv %       Measured 344,000     0.31     433,000     0.12       Indicated     86,000 </th <th>Cu Equiv %</th> <th>Cutoff To</th> <th>nnes Million</th> <th>Cu %</th> <th>Au g/t</th> <th>Mo</th> <th>&gt;%</th> <th>Cu Equiv %</th> <th></th> <th>1 2</th> <th>HEMISPHE</th>	Cu Equiv %	Cutoff To	nnes Million	Cu %	Au g/t	Mo	>%	Cu Equiv %		1 2	HEMISPHE
0.30       127       0.3       0.13       0.008       0.43         Total Inferred Resources at Liabulin 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         Total Resources per Zone at Liabuin Cu-Au-Mo Project         Zone       Measured (Mt)       Indicated (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%       15.6 @ 0.37%       1.5 @ 0.34%         Total       112 @ 0.42%       37 @ 0.37%       144 @ 0.37%       1.5 @ 0.34%       0.4 Equiv %         Contained Metal Summary at Liabuin Cu-Au-Mo Project       Resource Category       Cooper (1)       Cu %       Gold oz       Au g/t         Measured       344,000       0.31       433,000       0.12       Indicated       Mo 0.00		0.26	173	0.28	0.12	0.0	07	0.39	1	-	mining limit
0.30       127       0.3       0.13       0.008       0.43         Total Inferred Resources at Liabulin 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         Total Resources per Zone at Liabuin Cu-Au-Mo Project         Zone       Measured (Mt)       Indicated (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%       15.6 @ 0.37%       1.5 @ 0.34%         Total       112 @ 0.42%       37 @ 0.37%       144 @ 0.37%       1.5 @ 0.34%       0.4 Equiv %         Contained Metal Summary at Liabuin Cu-Au-Mo Project       Resource Category       Cooper (1)       Cu %       Gold oz       Au g/t         Measured       344,000       0.31       433,000       0.12       Indicated       Mo 0.00		0.28	149	0,29	0.12	0.0	08	0.41	2		lahuin
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%         Ferrocarrii       14.4 @ 0.37%       14.4 @ 0.37%       1.5 @ 0.34%         Contained Metal Summary at Llahuin Cu-Au-Mo Project         Resource Category       Cooper (I)       Cu %       Gold or       Aug %         Mcasured 40.00       0.31       433.000       0.12       Inferred       Mo %       Cu Equiv %         Measured       344.000       0.31       433.000       0.14 <td></td> <td>0.30</td> <td>127</td> <td>0.3</td> <td>0.13</td> <td>0.0</td> <td>08</td> <td>0.43</td> <td></td> <td></td> <td></td>		0.30	127	0.3	0.13	0.0	08	0.43			
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%         Ferrocarrii       14.4 @ 0.37%       144 @ 0.37%       1.5 @ 0.34%         Contained Metal Summary at Llahuin Cu-Au-Mo Project       Easure Contained Metal Summary at Llahuin Cu-Au-Mo Project         Resource Category       Copper (t)       Cu %       Gold oz       Au g/t         Measured       344.000       0.14       Easure Stepper Core Resource		otal Infer	red Resour	ces at Llahui	in Cu-Au-M	o Project	t				No. 12. 1940
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%       0.37%         Cerro de Oro       10.8 @ 0.39%       15.2 @ 0.38%       26.0 @ 0.38%       15.6 @ 0.37%       0.34%         Ferrocarril       14.4 @ 0.37%       14.4 @ 0.37%       1.5 @ 0.34%       0.60 @ 0.36%         Contained Metal Summary at Llahuin Cu-Au-Mo Project       Measured       Measured       Au g/t       Measured       Gold ox       Au g/t       Measured       Measured       Au g/t       Measured Category %       Au g/t								Cu Equiv %	100		PLEAS
0.30     15     0.21     0.05     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 @ 0.33%     144 @ 0.37%     1.5 @ 0.34%       Comtained Metal Summary at Llahuin Cu-Au-Mo Project       Resource Category     Copper (t)     Cu %     Gold oz     Au git       Measured     344,000     0.31     433,000     0.12     Measured       Inferred     40,000     0.20     119,000     0.19     Measured     Mo %     Cu Equiv %       Higher Grade Core Resources at Llahuin (Measured + Ind(Cated Cas)     Mo %     Cu Equiv %     Mo %     Cu Equiv %     Mo %     Cu Equiv %       Multiple     On.34     On.34     0.14     0.008     0.48     Mo %		0.26	26	0.19	0.17	0.0	05	0.34	1040	1.15	-
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 tonnage at 0.28% CuEq Cutoff inicuded 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 git         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)       Mo % Cu Equiv %       0.34       7.0.6       0.34       0.14       0.008       0.48		0.28	20	0.20	0.19	0.0	05	0.36	2	AND	
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 tonnage at 0.28% CuEq Cutoff inicuded 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 git         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)       Mo % Cu Equiv %       0.34       7.0.6       0.34       0.14       0.008       0.48		0.30	15	0.21	0.21	0.0	05	0.38	Į.	2.84.5	1
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 @ 0.38%         Zone tonnage at 0.28% CuEq Cutoff inicuded in Resource Estimate - Grades are shown in Cu Equiv %       Contained Metal Summary at Liahuin 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         Higher Grade Core Resources at Liahuin (Measured + Indicated Cat)       Higher Grade Core Resources at Liahuin (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			the state of the s	the second se	the second second second	Project			-	and the second	P. Para
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%         Contained Metal Summary at Liahuin Cu-Au-Mo Project       Contained Metal Summary at Liahuin Cu-Au-Mo Project       Contained Metal Summary at Liahuin Cu-Au-Mo Project         Resource Category       Copper (t)       Cu %       Gold oz       Au g/t       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       Inferred       40,000       0.20       19,000       0.48								Inferred (Mt)		29.4	1. B.X.
Ferrocarril       14.4 @ 0.37%       1.5 @ 0.34%         Total       112 @ 0.42%       37 @ 0.37%       149 @ 0.41%       20 @ 0.36%         Contained Metal Summary at Liahuin 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 Liahuin (Measured + Indicated Cat)       Mo % Cu Equiv %       Cu Equiv %         0.34       70.6       0.34       0.14       0.008       0.48	Central Porphyry	101.2 @	0.43%	7.3 @ 0.34%	108.5 @	0.42%	1	2.8 @ 0.32%		1.12.1	1
Total     112 @ 0.42%     37 @ 0.37%     149 @ 0.41%     20 @ 0.36%       Zone tonnage at 0.28% CuEq Cutoff inlcuded 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 git       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)     Mo % Cu Equiv %     Cu Equiv %       0.34     70.6     0.34     0.14     0.008     0.48	Cerro de Oro	10.8 @	0.39%	15.2 @ 0.38%	26.0 @	0.38%	13	5.6 @ 0.37%	15	5.00	
Contained Metal Summary at Llahuin Cu-Au-Mo Project       Resource Category     Copper (t)     Cu %     Gold oz     Au git       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)     Mo %     Cu Equiv %       Quadity % Cutoff     Tonnes Million     Cu %     Au git     Mo %     Cu Equiv %       0.34     70.6     0.34     0.14     0.008     0.48	Ferrocarril			14.4 @ 0.37%	14.4 @	0.37%		1.5 @ 0.34%		1248	and a set
Contained Metal Summary at Llahuin Cu-Au-Mo Project       Resource Category     Copper (t)     Cu %     Gold oz     Au git       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)     Mo %     Cu Equiv %       Cu Equiv % Cutoff     Tonnes Million     Cu %     Au git     Mo %     Cu Equiv %       0.34     70.6     0.34     0.14     0.008     0.48	Total	112 @	0.42%	37 @ 0.37%	149 @	0.41%		20 @ 0.36%	1	AL S	
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)       Mo %       Cu Equiv %         0.34       70.6       0.34       0.14       0.008       0.48			Zone tonnage at	0.28% CuEq Cutof	f inlouded in Res	ource Estimat	te - Gra	ades are shown ir	Cu Equiv %	Sec. 1	Service.
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)       Mo % Cu Equiv %         Cu Equiv % Cutoff       Tonnes Million       Cu %       Au git       Mo % Cu Equiv %         0.34       70.6       0.34       0.14       0.008       0.48	ALL STREET						2.30		** 25	75.4	
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)       Mo % Cu Equiv %         Cu Equiv % Cutoff       Tonnes Million       Cu %       Au git       Mo % Cu Equiv %         0.34       70.6       0.34       0.14       0.008       0.48	Resou						-	-	196.5	Carlos A	
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 git       Mo %       Cu Equiv %         0.34       70.6       0.34       0.14       0.008       0.48	100							-	AN .	Tom.	-
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Cu Equiv % Cutoff       Tonnes Million       Cu %       Au g/t       Mo %       Cu Equiv %         0.34       70.6       0.34       0.14       0.008       0.48	A	aber Grade		CONTRACTOR OF STREET,	C	2	ati	C. 2. 7 - 5 - 5 - 5	and the	1	State Alt
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		0,36	60.3	3 0.35	0.15	0.008	0	.50	i j'an	ride a	and the second
	Art. al	0.38			0.16	0.008	0,	.52	.9 - 10	Ian to SOFTAI	ugust 2013 ASX

• 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, due H1 2025 to include all work and drilling since 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

#### **Highlight Drill Results**

\*Note higher grades at depth

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

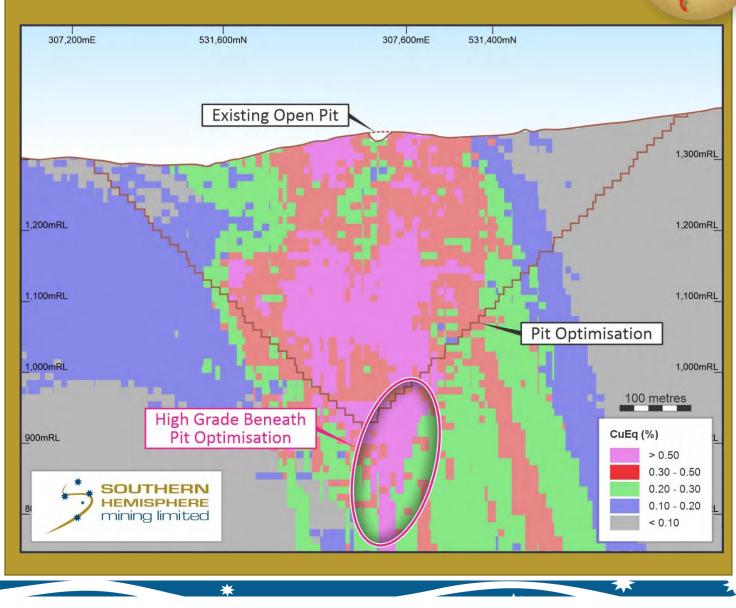
DDH-LLA-021: 440m @ 0.75% CuEq from 2m, incl:

106m @ 1.69% CuEq from 182m

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

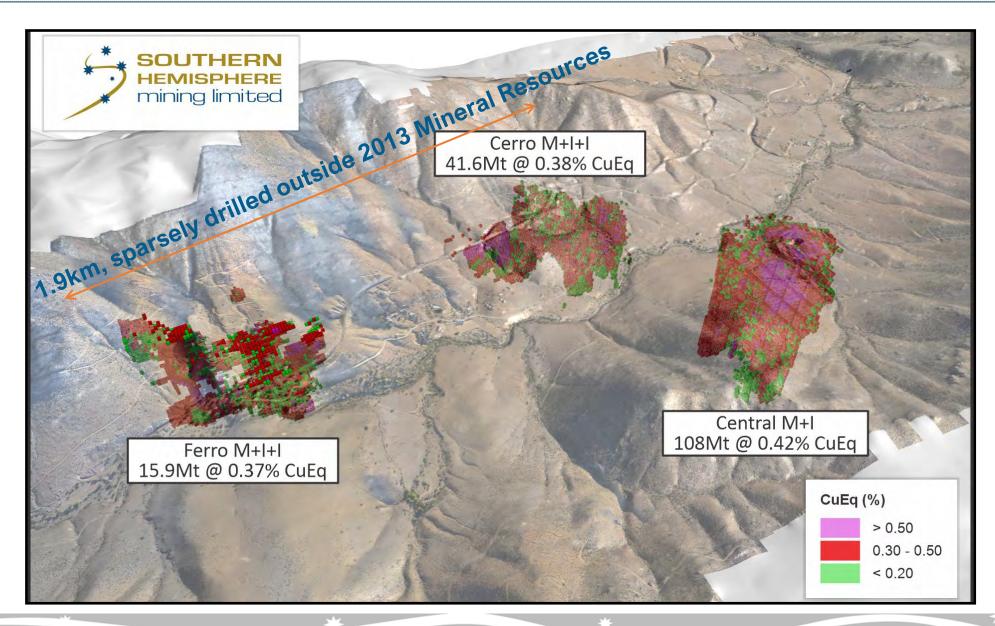
DDH-LLA-026: 326m @ 0.56% CuEq from 70m, incl:

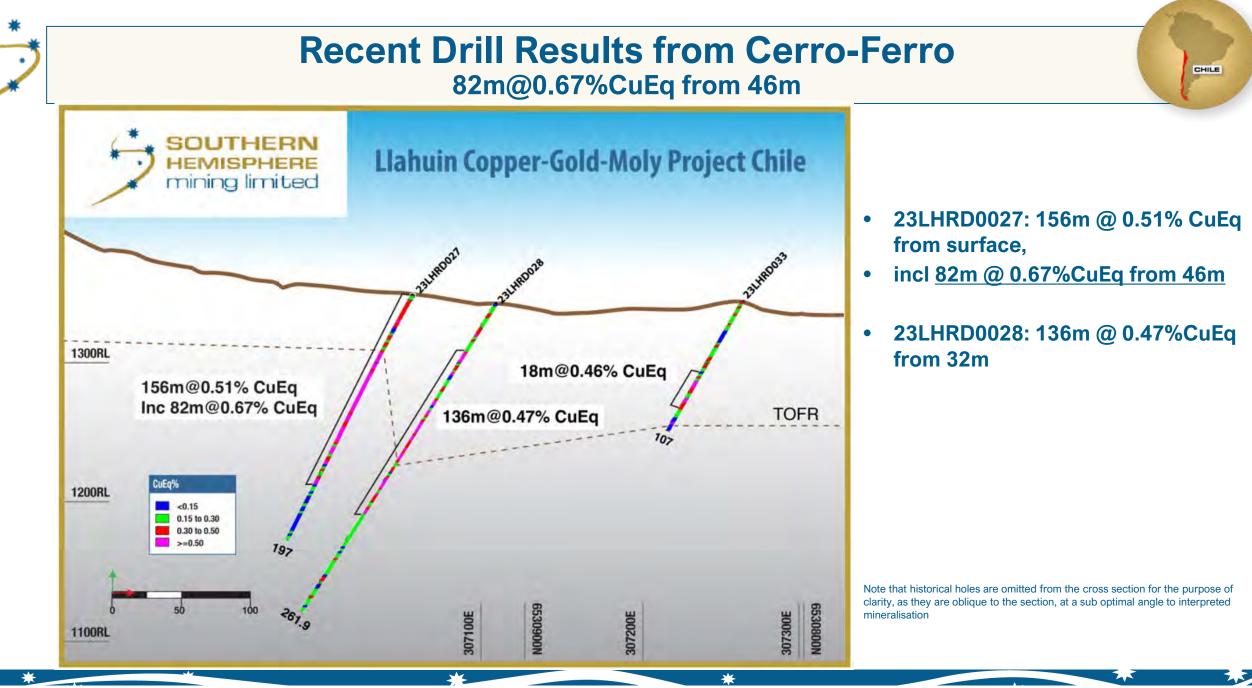
126m @ 0.80% CuEq from 200m



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#### Llahuin Block Model and Topography-Good Mining Configuration

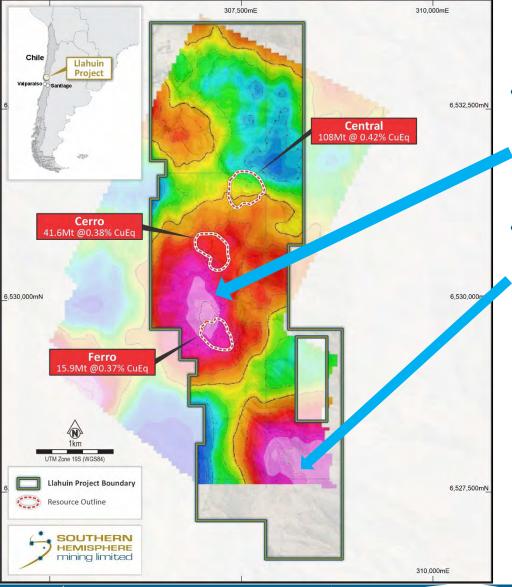






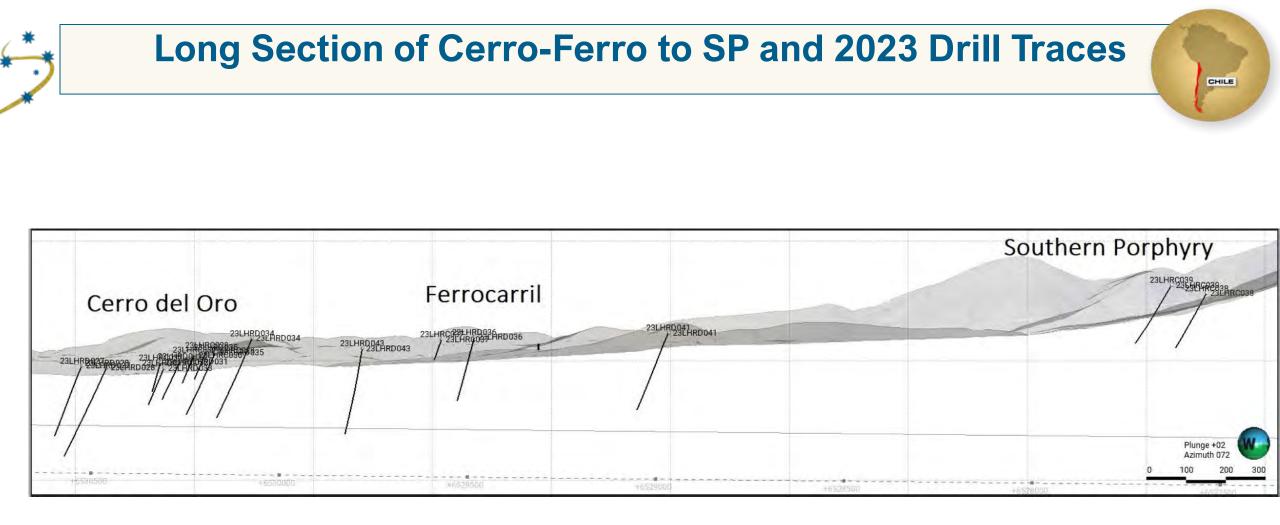
#### **Cerro-Ferro Deep Target at 1,200m**





- 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

\*



\*

#### Southern Porphyry –Curiosity 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



Mo and tenorite (black oxide Cu) at surface confirmed with pXRF. Fractures with copper 75m beneath surface working which could indicate porphyry style potential at depth

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100m

#### Southern Hemisphere Mining Limited I ASX: SUH

#### Southern Porphyry Curiosity Target- Large 1-2km Wide

- 3D soil geochemical footprint modelling has identified two large drill targets at the Llahuin Copper-Gold porphyry system
- The Curiosity target at Southern Porphyry is located 550m below the Santa Maria epithermal vein system
- Workings and diameter of over 1km expanding to over 2km diameter at depth
- Deep drill testing of the Curiosity target looming
- Two near surface targets at Cerro and Ferro are confirmed by drilling
- Further data acquisition and modelling is in progress
- 3D drone magnetic inversion completed, further supporting the targets (shown in grey)

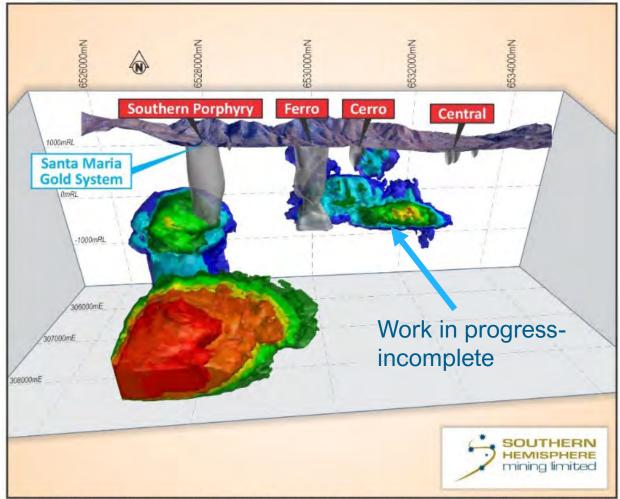


Figure 1. 3D view showing geochemical footprint models thematically colour scaled from blue (moderate probability) through to reds and magentas (high probability). Drone magnetic inversion models are in silvery arev.

### **Cerro-Ferro Large Target- 2km length below ore blocks**

CHILE

**Cerro-Ferro Modelling is** working as it is identifying resources where we have JORC resources. Significant further sampling is in progress to improve the drill targets for open pit and depth

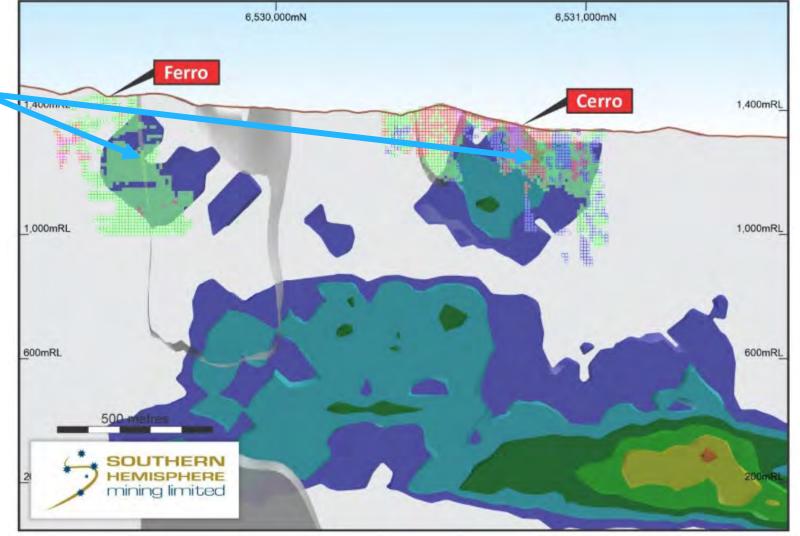


Figure 5. Long section of Ferro and Cerro, showing the thematically coloured footprint models, drone magnetic and current Mineral Resources.

\*\*



CHILE

1. Assays of more detailed litho-Geochem 3D modelling for drill targets for upcoming drill program and large deep upside targets at Curiosity and Cerro-Ferro

**2. Assays of new zones of elevated Molybdenum not assayed in prior historical resource calculation** 

- 3. Metallurgical testwork in progress
- 4. Drilling contracts and drilling commencing ~September 2024

5. Upgrade JORC Resource towards mining studies (last JORC in 2013 so lots of drilling, relogging and modelling completed since then) ~H1 2025

6. Deep target drill testing (Curiosity and/or Cerro-Ferro)

7. Ongoing project marketing



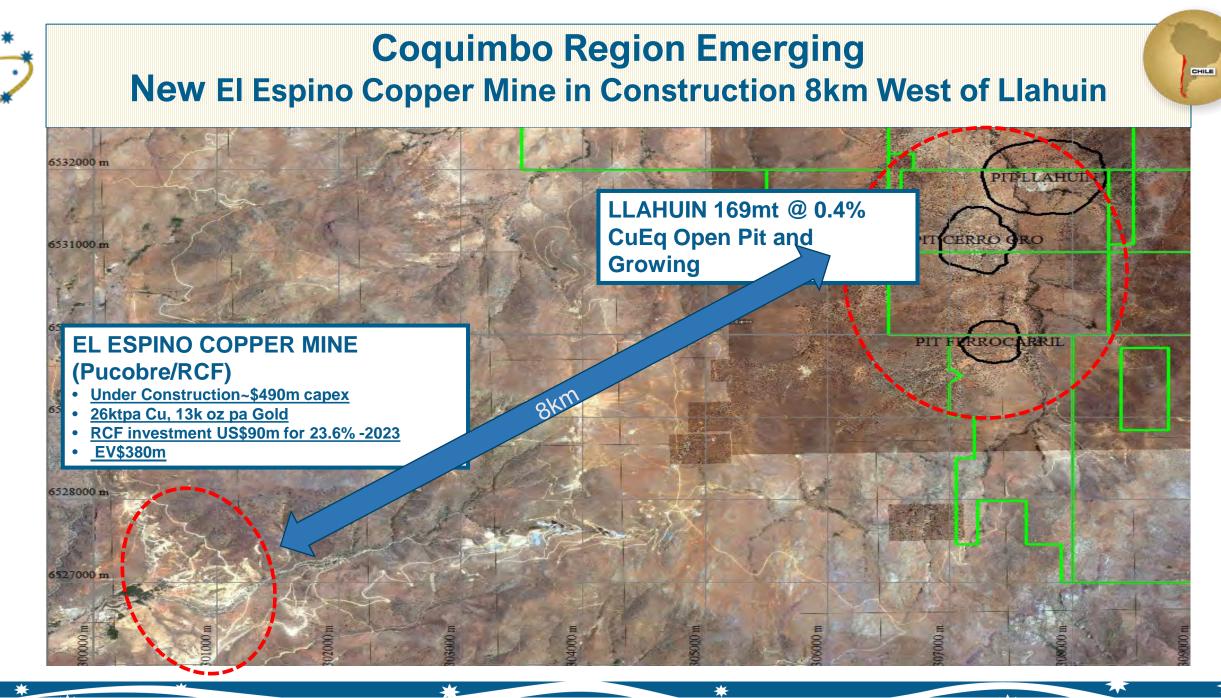
# **Clear Direction Forward**



- 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: ~6km 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 Curiosity copper gold target ~550m depth



# \*

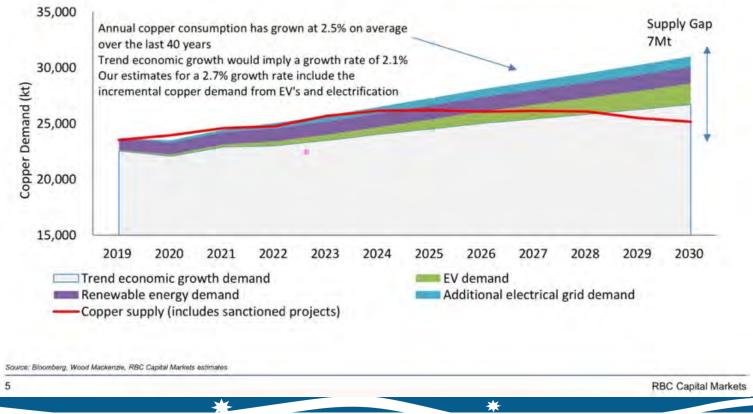
#### **Copper Market Showing a Major Deficit Ahead**

#### 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)

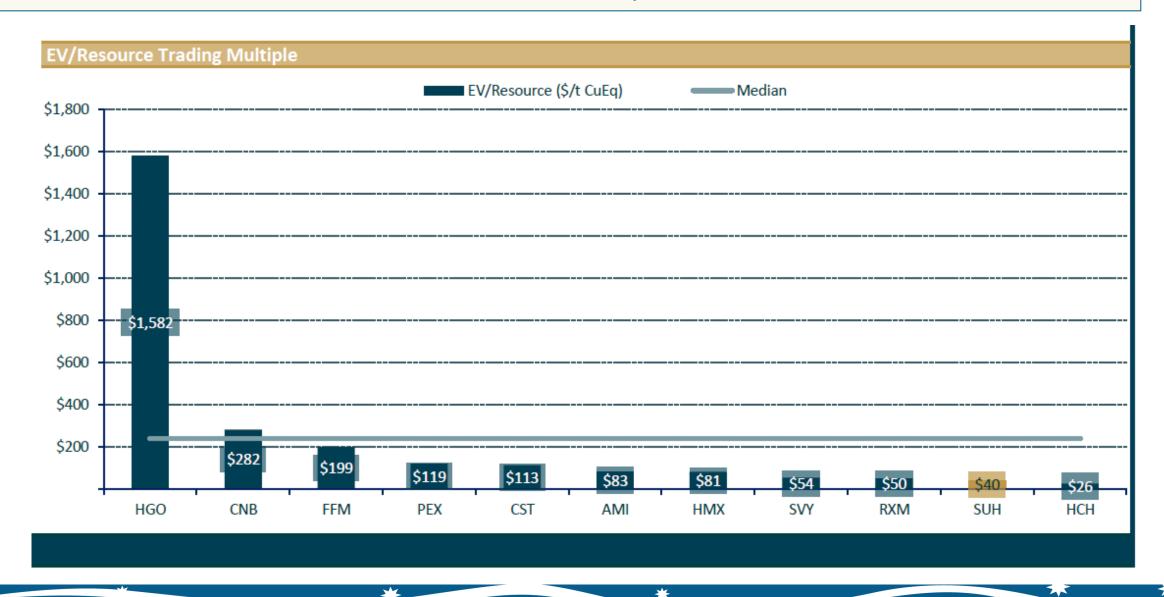




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#### **ASX Copper Explorers EV/Resource Trading Multiple**

Source: Eurozhartleys



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



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

# 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)
- 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 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



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### Appendix 1: Chile and Comparative Country Credit Ratings

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#### **Fitch's Country Credit Rating**

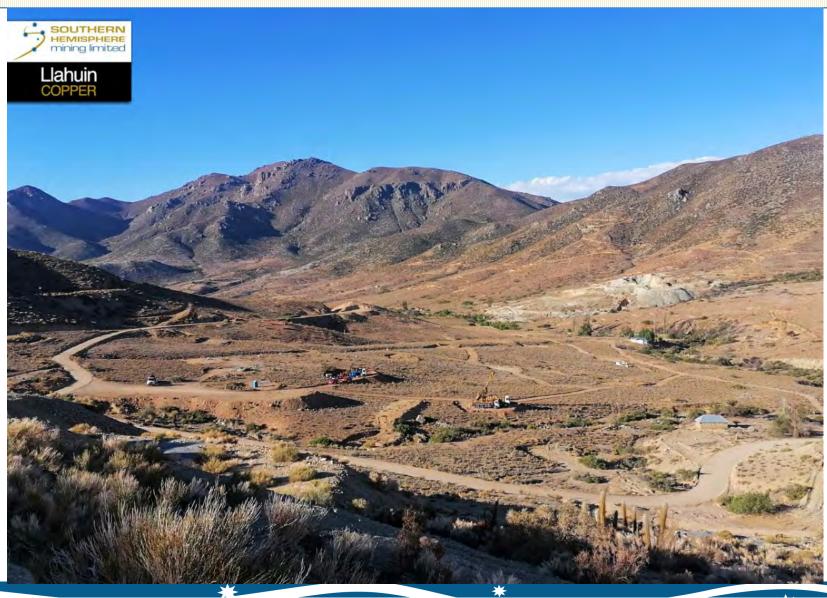
Chile	A- (Dec 23)						
• Australia	AAA (May 23)						
• Argentina	CC (May 23)						
• Columbia	BB+ (Dec 23)						
• Brazil	BB (Nov 23)						
• Ecuador	CCC+ (Dec 23)						
• Mexico	BBB- (Dec 23)						
• Peru	BBB- (Oct 23)						

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!

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### Thankyou

For more News from Southern Hemisphere **Mining Limited** please visit our **Company News** Page and/or Follow us on Linkedin and **Twitter** @SHMining



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