







Southern Hemisphere Mining is a successful explorer focusing on drilling the largely untested Llahuin Copper-Gold Porphyry System in Chile to mine scale

October 2024 ASX: SUH FWB: NK4

www.shmining.com.au



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. 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, 29 April 2024, 27 August 2024, 19 September 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

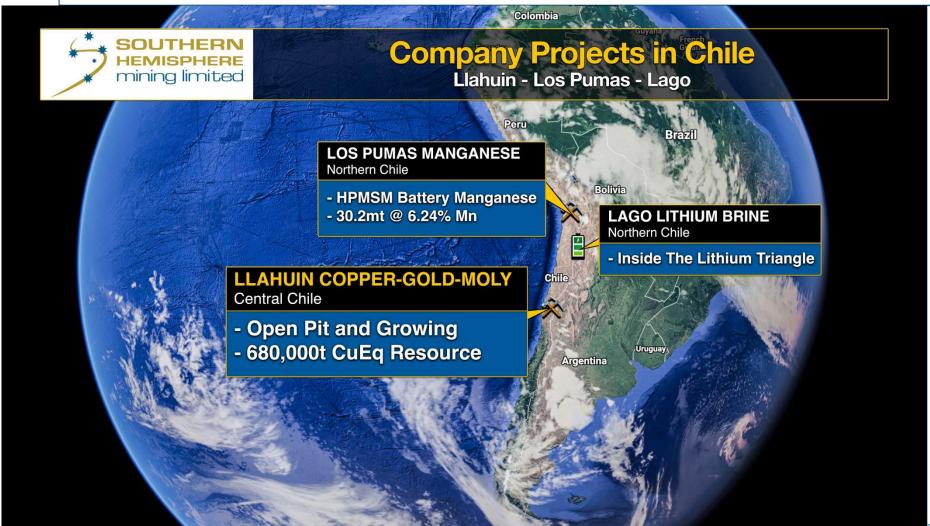
ASX 13 July 2023 -Lago Lithium Project

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.





LLAHUIN HAS TREMENDOUS SCALE POTENTIAL



- FLAGSHIP PROJECT Llahuin Copper-gold
- Lightly explored
- Over 4km x 1.5km sulphide zone
- Resource from surface including results 106m@
 1.69%CuEq
- Drilling in progress to expand
- 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	\$4,039,000
Est Receivables*	\$3,000,000
Market cap at \$0.036	~\$27m
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Listed: ASX 2011, Ticker: ASX: SUH

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

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 Buckeridge & 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.



Investment Metrics

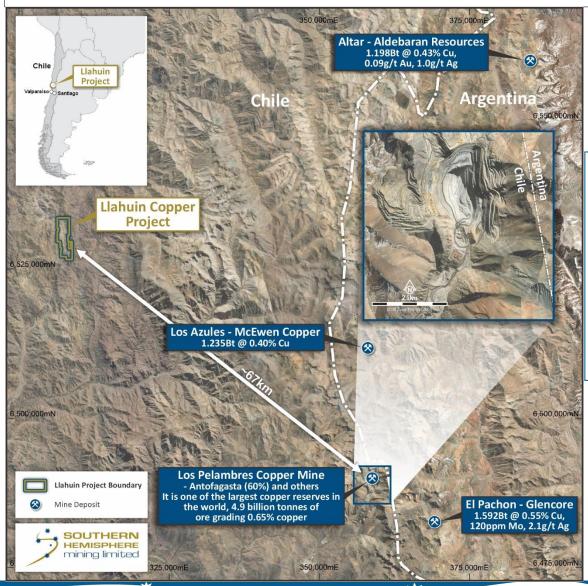


- ✓ Chile has an International Credit Rating of A (S&P) (Australia AAA, Argentina CCC)
- ✓ Excellent Location
 - Low altitude at 1,300m
 - ❖ ~5km to grid power, 200km to Coquimbo Port
 - Combarbala town 24km (13,000popn), Santiago 350km
 - Sealed airstrip 20km
 - **❖** A historical railway traverses the property
 - **❖** Groundwater ~40m, good flow rates
- ✓ ESG
 - Low population area
 - Long term community agreement in place
 - Local workforce

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



Llahuin Copper-Gold: Land of the Giants



Llahuin within 100km of giants

Los Pelambres- Antofagasta-Chile

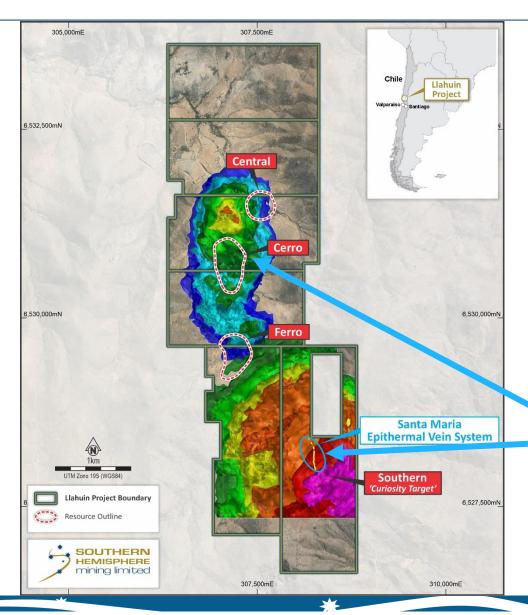
Los Azules- McEwen Copper-Argentina

El Pachon- Glencore-Argentina

Altar- Aldebaran-Argentina



Llahuin Copper-Gold- Technical Summary

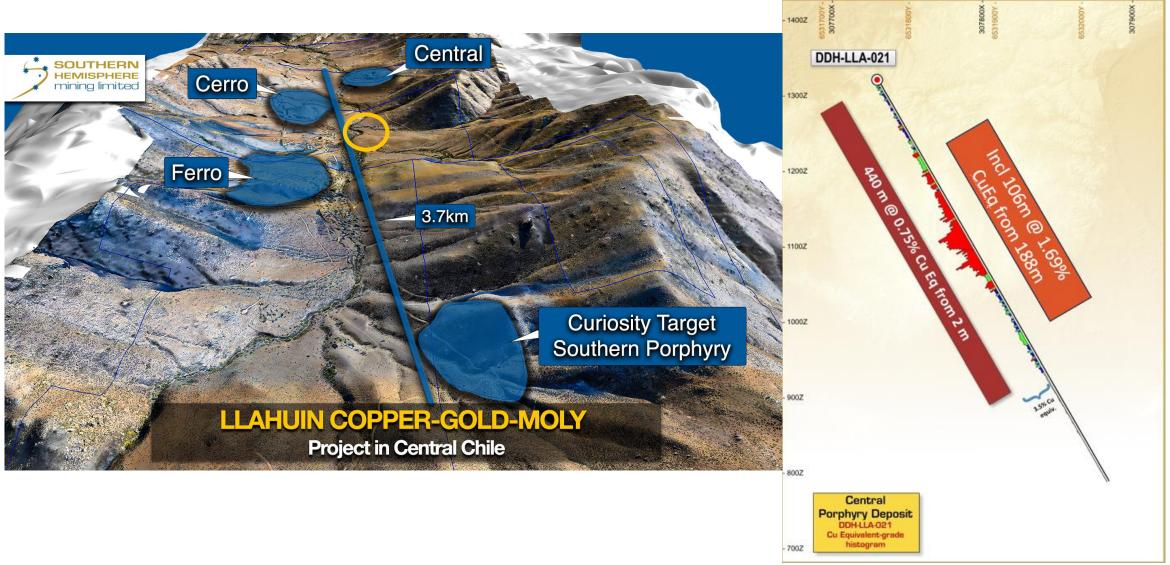


- 1. Multiple targets to add tonnes
- 2. Surface geochemistry works +2000 samples
- 3. Full surface mapping and sampling program instigated identifying the vein structures and orientations, continuing
- 4. Relogged +20km of core, vein density, multielement assay, pulp composites etc
- 5. Underground 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. Al and modern geophysics to target higher grade mineralised zones

DRILLING FOR MAJOR RESOURCE GROWTH 2024-5 -82m @ 0.67%CuEq from 46m: 23LHRD027



The Llahuin Valley hosts a cluster of copper/gold deposits with multiple targets for growth

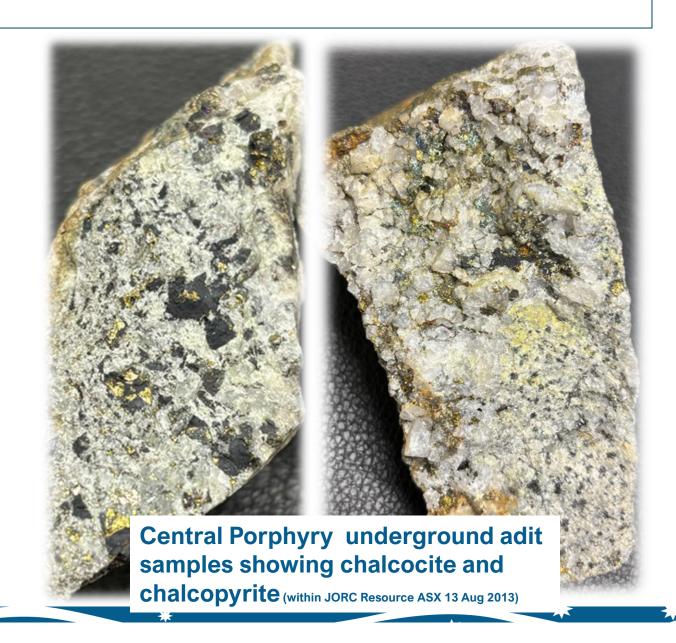


Top Drill Results and Rock Chip Samples

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	
	21LHRC003 21LHRC009 DDHLLA021 Incl DDHLLA025 DDHLLA026 DDHLLA027 DDHLLA043 23LHRC027 23LHRC028	21LHRC003 0 21LHRC009 0 DDHLLA021 2 Incl 182 DDHLLA025 102 DDHLLA026 168 DDHLLA027 70 DDHLLA043 416 23LHRC027 0 23LHRC028 32	21LHRC003 0 90 21LHRC009 0 69 DDHLLA021 2 440 Incl 182 288 DDHLLA025 102 468 DDHLLA026 168 422 DDHLLA027 70 396 DDHLLA043 416 450 23LHRC027 0 156 23LHRC028 32 168	21LHRC003 0 90 90 21LHRC009 0 69 69 DDHLLA021 2 440 438 Incl 182 288 106 DDHLLA025 102 468 366 DDHLLA026 168 422 254 DDHLLA027 70 396 326 DDHLLA043 416 450 34 23LHRC027 0 156 156 23LHRC028 32 168 136	21LHRC003 0 90 90 0.62% 21LHRC009 0 69 69 0.47% DDHLLA021 2 440 438 0.75% Incl 182 288 106 1.69% DDHLLA025 102 468 366 0.63% DDHLLA026 168 422 254 0.52% DDHLLA027 70 396 326 0.56% DDHLLA043 416 450 34 1.49% 23LHRC027 0 156 156 0.51% 23LHRC028 32 168 136 0.47%	21LHRC003

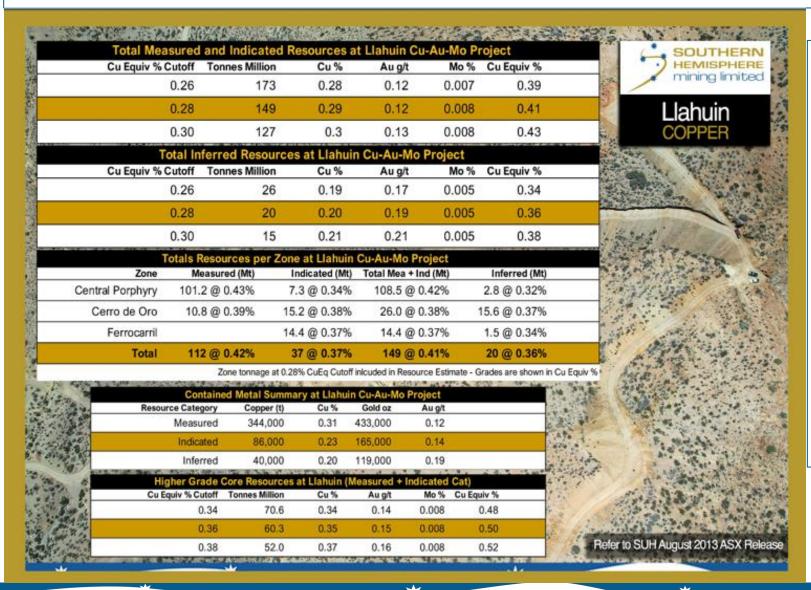
Several veins in areas outside known resources demonstrate very high-grade copper ±- gold ± silver veins occur in the project area

	WGS	WGS					
Sample ID	Easting	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	L 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, Upgrade in Progress for H1 2025

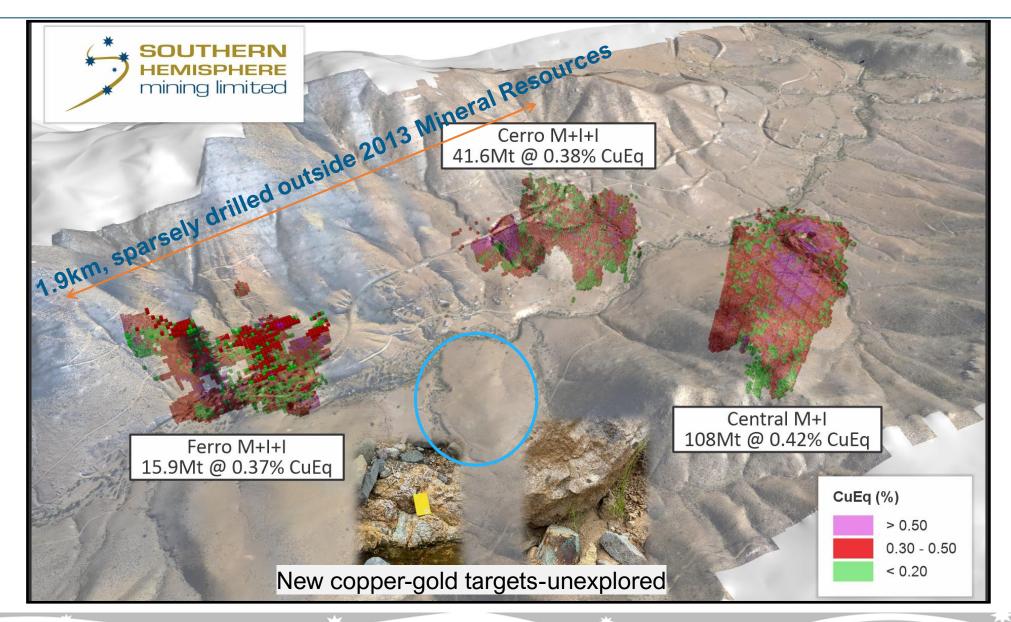


- Total Copper tonnes: 686,000t CuEq
- Measured Indicated and Inferred at 0.28% cut-off*
- From surface, open pit style mining and growing
- P Resource upgrade in progress, H1 2025 to include all work and drilling since 2013

*ASX/TSX release 43-101 18 August 2013



Large Scale Expansion and Good Mining Configuration

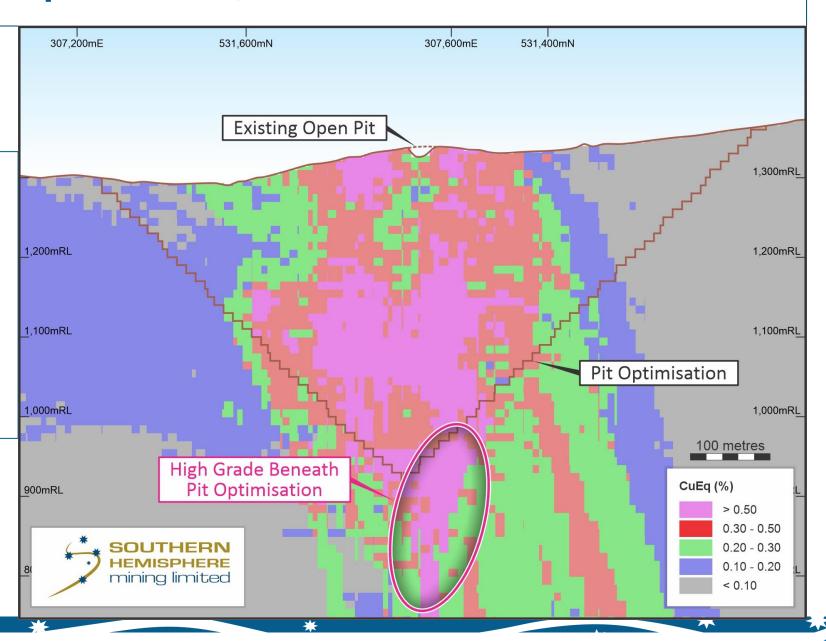




Llahuin Central Deposit 108mt @ 0.42% CuEq Measured and Indicated

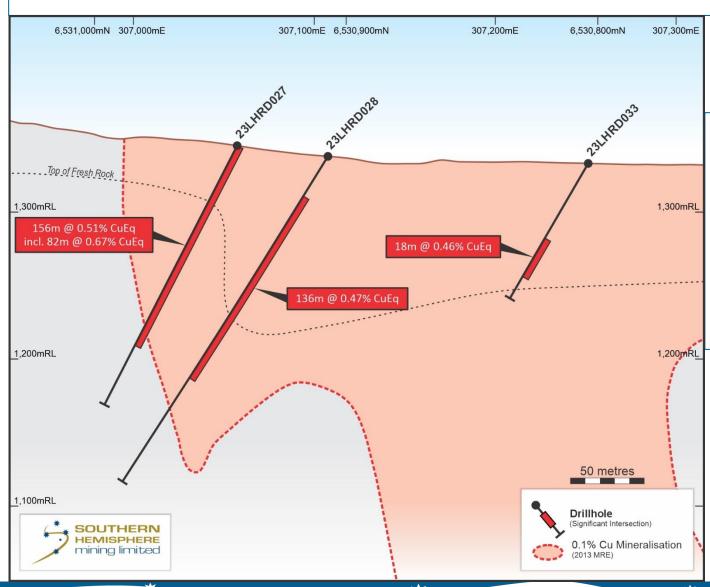
Resource drilling complete for open pit mining

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





Recent Drill Results from Cerro-Ferro

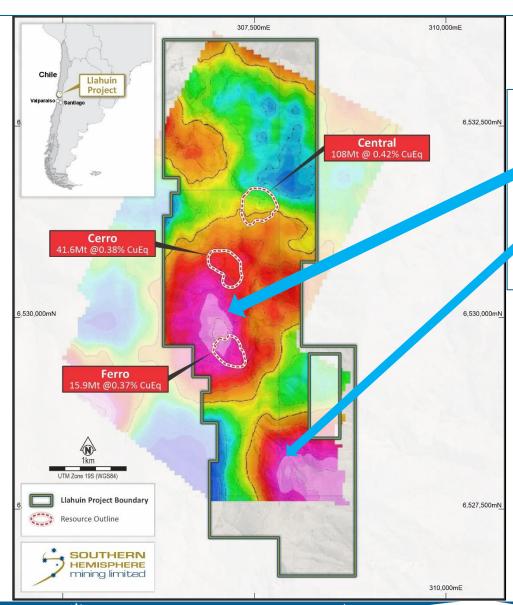


- 23LHRD0027: 156m @ 0.51% CuEq from surface,
- incl 82m @ 0.67%CuEq from 46m
- 23LHRD0028: 136m @ 0.47%CuEq from 32m

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



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



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

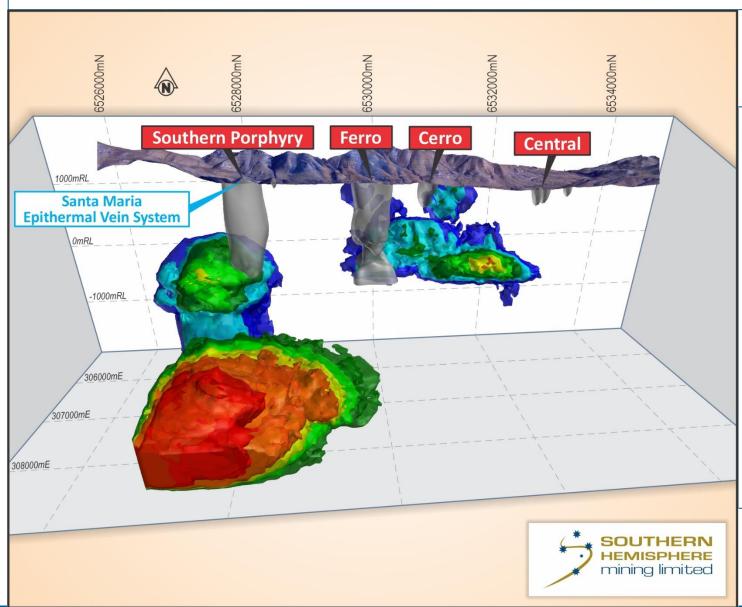
100m







3D Litho-Geochem Modelling –Two Large Targets



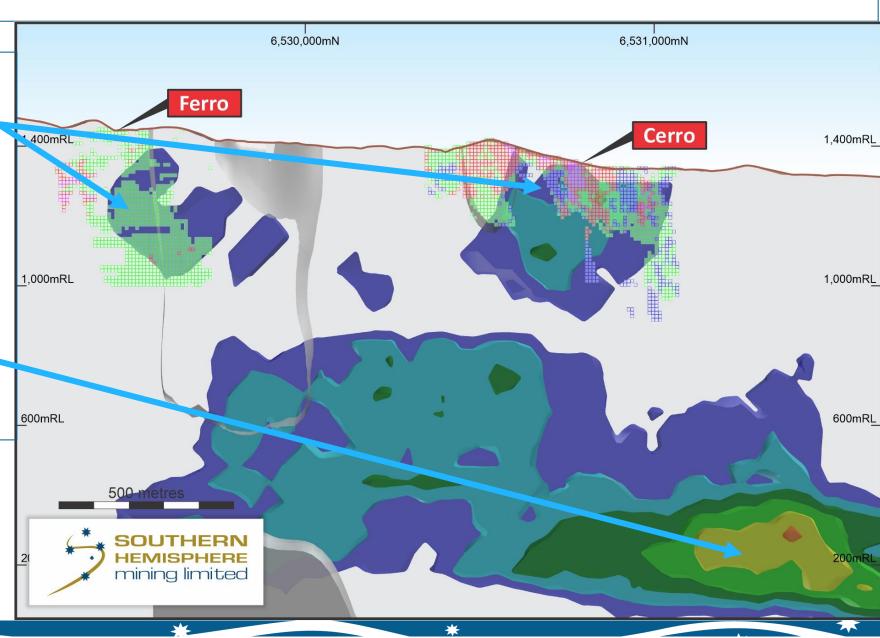
- 3D soil geochemical footprint modelling identified two large targets
- Cerro-Ferro in and below resources
- The Curiosity target at Southern Porphyry is located 550m below the Santa Maria epithermal vein system
- Diameter of over 1km expanding to over 2km diameter at depth
- 3D drone magnetic inversion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

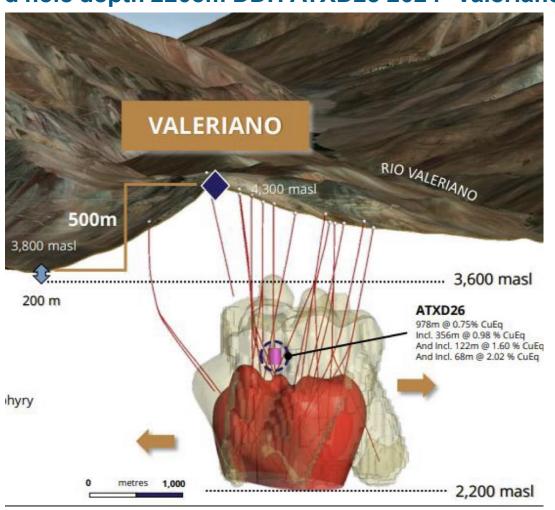




Chile- Deepest Drilling-2208m - Case Study

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 deeperwhat 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

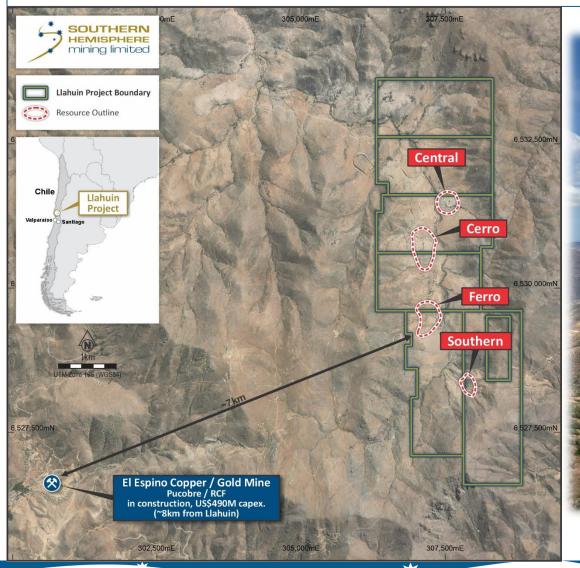
Deep drill testing (Cerro-Ferro and/or Curiosity) Q1-2 2025 Upgrade JORC Resource H1 2025

Targeting scale confirmation to interest majors/mid-tier producers





Coquimbo Region Emerging New El Espino Copper Mine in construction 8km West of Llahuin







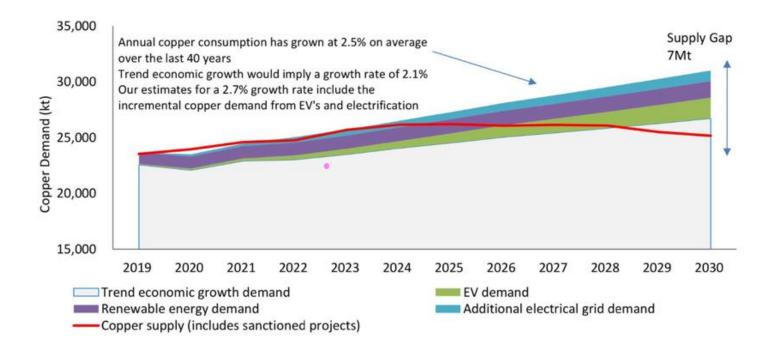
Copper Market –Prices increasing, value accretive

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

RBC Capital Markets



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)
- 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 Manganese, 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 in progress
- Management expertise
- Low overheads
- Well funded
- Multiple monetisation options/suitors

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