



Chile Focused Copper and Gold Exploration

Exploration Update

LSE:GSCU May 2023

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Highlights



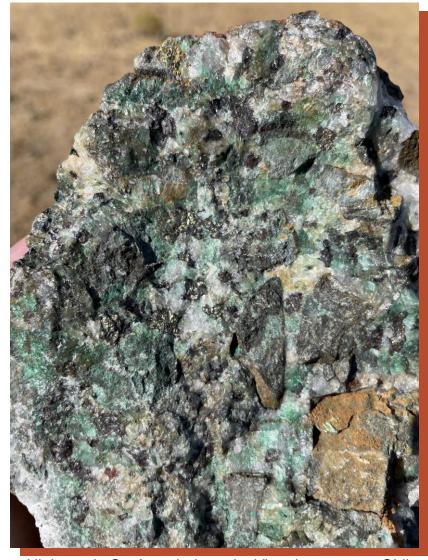
Multiple high-grade Cu-Au targets drill-ready

Large prospective claim block 100% held by GSC

Discovery of large-scale intrusive-related Cu-Au system

Emerging Cu-Au trend in Tier 1 copper jurisdiction

Experienced management with strong discovery record



High-grade Cu-Au vein-breccia, Victoria prospect, Chile

Key achievements



Excellent progress since listing in December 2021 (raised c£3.5 million):

Especularita Project

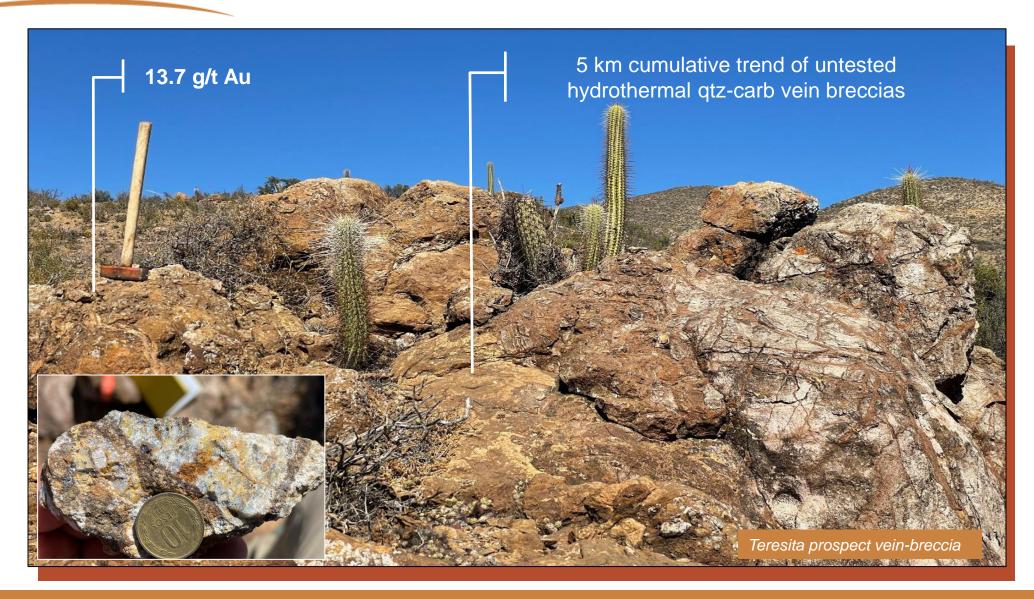
- Commenced exploration campaign at Especularita
- Results demonstrate discovery potential for multiple high-grade Cu-Au deposits
- Building pipeline of drill targets
- Regional exploration commenced targeted large-scale porphyry Cu potential

San Lorenzo Project

- 341.6 line km of ground magnetics, 2.6 km of trench sampling
- 3,000m scout diamond drilling programme completed across 4 prospects
- Discovery of significant Intrusive-Related Cu-Au system
- Concession foot-print increased to include porphyry Cu targets

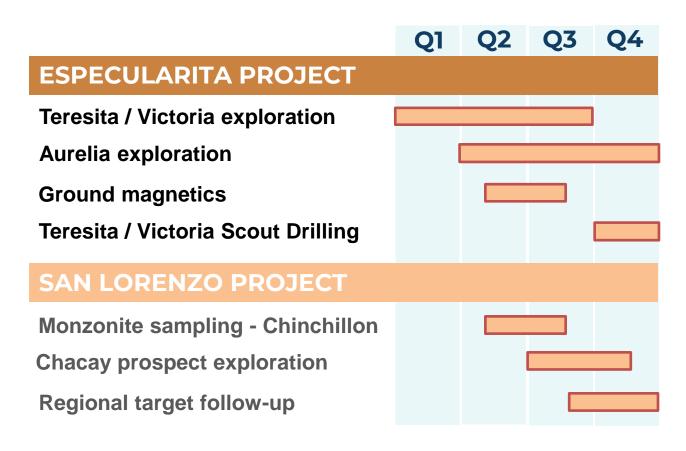
Drill-ready targets sticking out of the ground





2023 Exploration Programme





Especularita

- Regional mapping identifies district-scale potential for porphyryepithermal-skarn-IRGS deposits
- Regional sampling discovers high-grade vein-breccia swarms at Teresita / Victoria
- Prospect exploration defining pipeline of drill targets at Teresita/Victoria
- New claims increases prospective area at Teresita and adds new high-grade skarn target at Aurelia

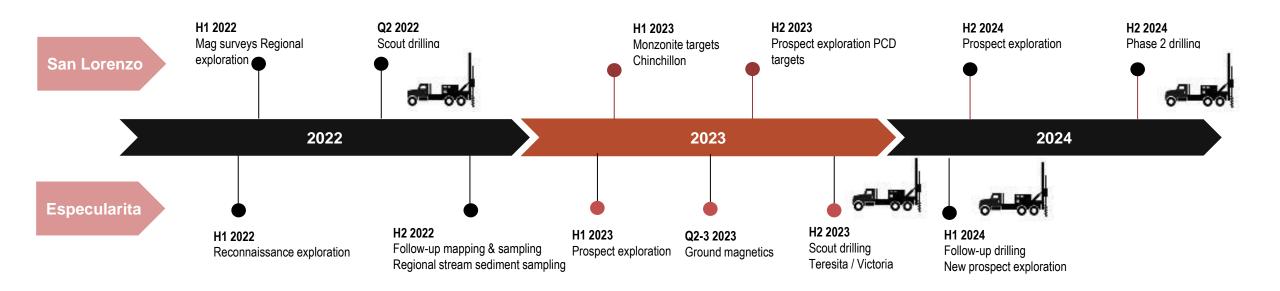
San Lorenzo

- Magnetics identifies deep intrusive monzonite targets
- Scout drilling discovery of intrusive-related Cu-Au system driven by monzonite dyke swarms
- New claims increased concession footprint including new untested porphyry Cu-Au targets

"Boots-on-ground" exploration is driving the potential for near-term discoveries on multiple prospects

Exploration Timeline – news flow





Notes:

- GSC is actively evaluating the potential for new project opportunities outside of the 2 headline projects
- All work programmes and schedules subject to contractor availability, access and permitting restrictions

INVESTMENT OPPORTUNITY



Large claim blocks in emerging under-explored coastal belt

Two early-stage, large scale Cu-Au projects – 100% owned

Exploration results underscore potential for significant discovery

San Lorenzo Project:

- Discovery of IRCG* system
- Emerging mineral trend
- Un-explored PCD targets

Especularita Project:

- District scale PCD* system
- Discovery of HBx* Cu-Au
- Drill target pipe-line ready

Pipeline of drill-ready Cu-Au targets in 2023 - 2024

Established local exploration team and executive management

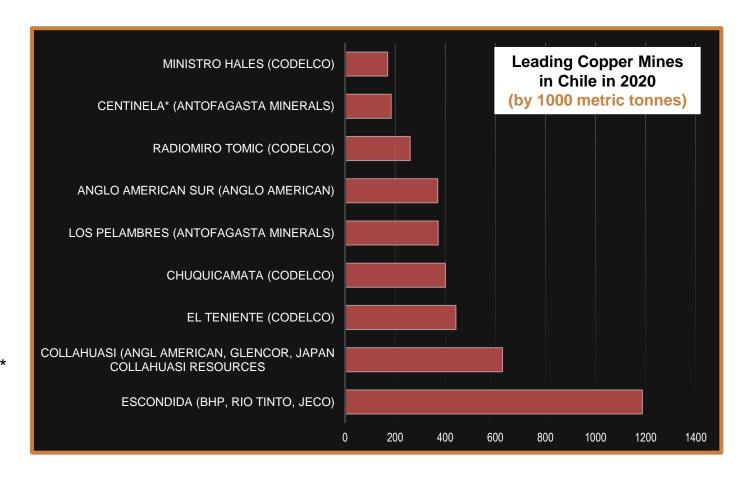
Pacific Ocean Productora-Cortader San Lorenzo Pro Pascua Nama La Serena

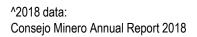
^{*}Note: PCD = Porphyry Copper Deposit / IRCG = Intrusive-related Cu-Au / HBx = Hydrothermal Breccia

Chile: Globally Significant Copper Mining Destination



- Largest producer and exporter of copper
- Largest reserves of copper and 4th largest for gold
- Replacement of copper reserves not matching depletion
- Copper grades in decline and mining costs rising
- Forecast supply shortage (sustained high prices)
- Mining accounts for 53% of Chile's exports (9% of GDP)*
- Stable political environment and experienced workforce













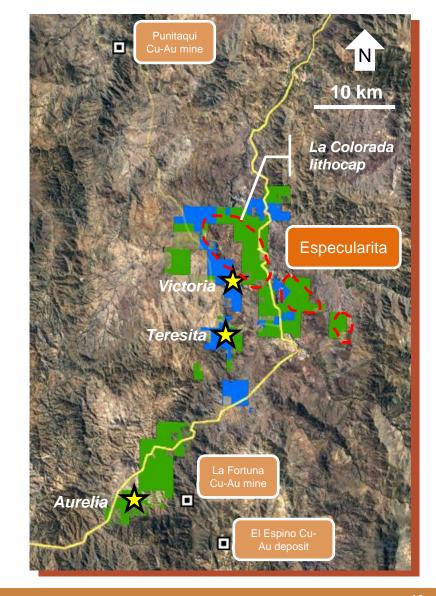




Especularita – High-grade Cu-Au targets



- District-scale mineralisation system showing evidence of porphyry –
 epithermal skarn style mineralisation
- Project partially includes and surrounds the La Colorada lithocap a large under-explored advanced argillic alteration zone that may be related to a concealed porphyry-epithermal deposit
- Mining and Exploration Concessions covering 18,209 ha (182 km²)
- Extensive small-scale Cu-Au mining and processing in the district limited modern style exploration evident
- Located within the coastal metallogenic belt along trend from large-scale Cu-Au deposits such as Teck's Andacollo mine
- Excellent infrastructure, low altitude, year-round access
- Exploration in progress at three prospects plus regional generative work



Especularita — Complete Porphyry – Epithermal System



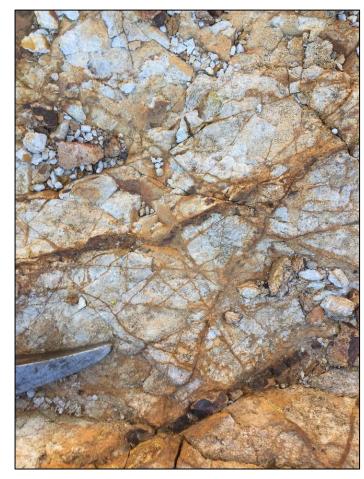
• "Boots-on-ground" exploration by GSC has identified a pipeline of drill targets at Especularita



Epithermal style quartz-carbonate vein-breccia systems with high-grade Au-Cu in outcrop



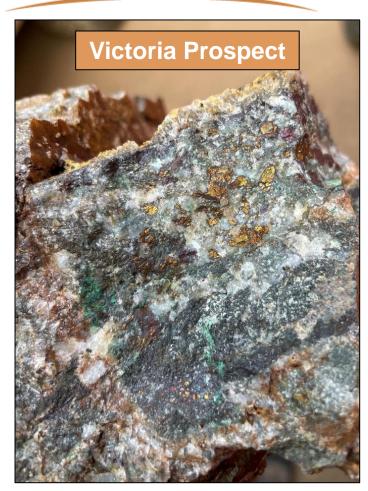
Outcropping disseminated copper hosted in advanced argillic high sulphidation style alteration



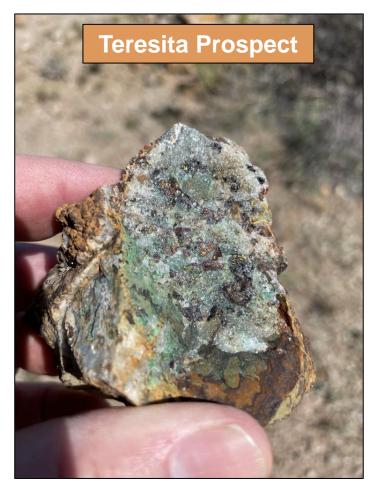
Porphyry style stockwork veining in weathered outcrop, La Colorada lithocap, Especularita

Especularita — Pipeline of untested high-grade Cu-Au targets





- High grade Cu-Au in vein-breccia
- Up to 6.9% Cu, 1.3g/t Au in outcrop
- Drilling planned in H2 2023
- No historical drilling



- High grade Au-Cu in vein-breccia
- Up to 13.1g/t Au, 2.9% Cu in outcrop
- Drilling planned in 2023 2024
- No historical drilling



- High grade Cu-Au in skarn rocks
- Up to 7.6% Cu, 2.9g/t Au in mine dumps
- Extensive artisanal mining
- No historical drilling

Teresita prospect – High-grade Au-Cu vein and breccia targets



- +5km cumulative strike of quartz-carbonate veinbreccias and open along strike
- Gold grades up to 13.7g/t from surface samples
- Copper grades up to 2.9% in mine dump samples
- No evidence of historical drilling
- Copper mineralised tourmaline breccia pipe
- Drill ready
- Work to date by GSC includes;
 - Mapping, rock and drainage sampling
 - Claims consolidated to control full system
- 2023-24 exploration to refine and test targets;
 - Ground magnetics
 - RC scout drilling



High-grade disseminated chalcopyrite in quartz matrix vein-breccia, Teresita



Tourmaline shingle-breccia pipe with disseminated copper-oxide in matrix, Teresita

Victoria prospect – High-grade Cu-Au in vein-breccias



- Quartz+carbonate vein-breccia swarm
- Multiple vein-breccias mapped over 1 x 0.6km
- High-grade Cu-Au in quartz-dominant zones
- Up to 6.9% Cu and 4.3 g/t Au at surface
- No historical drilling
- Previous exploration by GSC includes;
 - Float mapping and sampling
 - Outcrop mapping and sampling
- 2023-24 exploration to define drill targets
 - Ground magnetics
 - Soil sampling
 - RC scout drilling



Outcropping quartz matrix vein breccia, Victoria

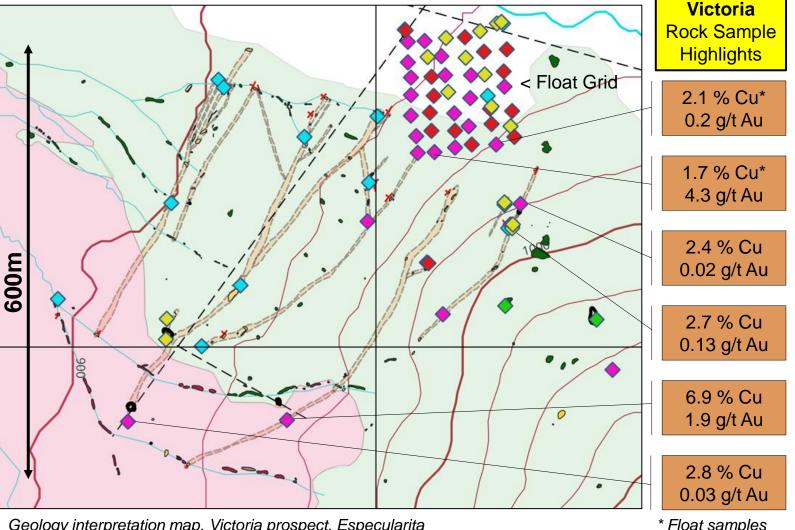


Coarse disseminated chalcopyrite mineralisation hosted in vein-breccia, Victoria prospect

Victoria prospect – High-grade Cu-Au vein-breccia target



- Quartz+carbonate vein-breccia swarm
- Similar style to Teresita
- Follow-up of float geochem led to outcrop discovery
- Vein-bx structures open along strike
- Shallow cover and scree obscures geology – potential for additional veins
- Mineralisation style suggests geophysics methods (mag / IP) should be effective

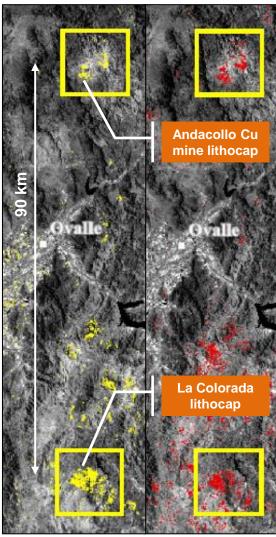


* Float samples

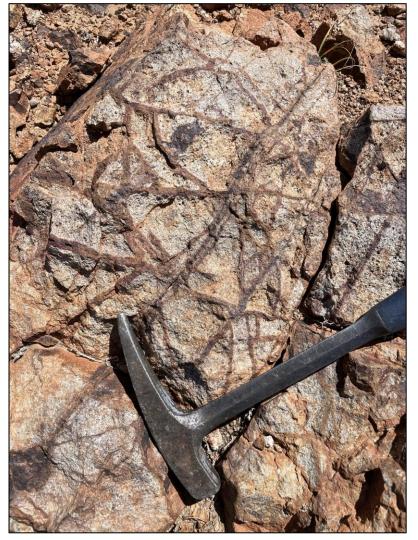
La Colorada Lithocap - Porphyry Cu-Au targets



- Project centred on a large (>35km²) advanced argillic alteration system (La Colorada lithocap)
- Geological and structural setting like the large porphyry deposits on trend – Andacollo (Teck)
- Work by GSC includes;
 - Reconnaissance mapping and sampling discovered multiple zones of porphyry Cu-Au style stockwork veining and alteration
 - Regional stream sediment sampling in progress (>500 drainage samples)
- Future work to include;
 - Detailed mapping and sampling
 - Spectral and geochemical vectoring studies
 - Geophysics



Clay-sericite band Hematite band Radiometric image Radiometric image



Porphyry Cu style stockwork alteration in outcrop, La Colorada

San Lorenzo Cu-Au Project

GREAT SOUTHERN COPPER

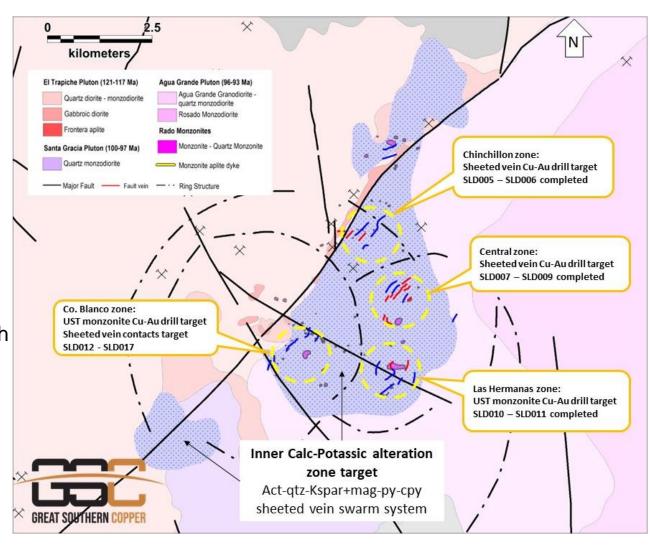
- Mining and Exploration Concessions covering 28,645 ha (286 km²)
- Re-invigorated exploration district in coastal PCD-IOCG belts due to recent exploration successes (Hot Chili, Tribeca)
- Significant Cu-Au mines on trend (Andacollo Teck)
- Discovery by GSC of Intrusive Related Cu-Au system at Chinchillon (3,000m scout drilling in 2022-23)
- Significant untested regional potential in the greater San Lorenzo
 project area work at Chinchillon covered less than 10% of project



Chinchillon – Intrusive Related Cu-Au Discovery



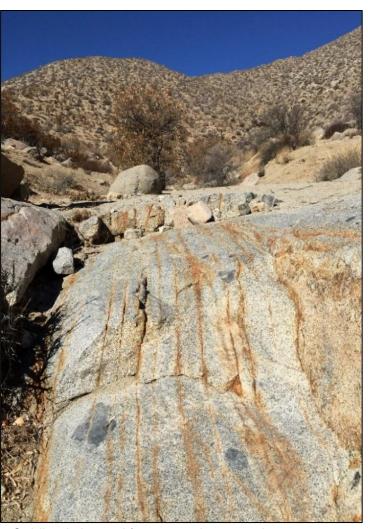
- >20-25km² area of calc-potassic alteration in granodiorite intruded by monzonitic stocks
- UST* indicates fertile system and cupola level erosion for monzonites
- Abundant anomalous surface Cu-Au geochem, artisanal mine workings and placer gold workings
- 3,000m Scout drilling (2022-23) targeted multiple prospect areas at Chinchillon
 - o Test oxide fracture-vein swarms for sulphide at depth
 - Test monzonites and USTs for Cu-Au fertility
 - Determine controls on and vectors to mineralisation
 - Evaluate appropriate exploration methodologies



Chinchillon - Cu-Au+Mo fracture-vein mineralisation



- Oxidised fracture-vein swarms define broad calc-potassic alteration zone in granodiorite
- Scout drilling confirms fractures host hypogene Cu-Au+Mo
- Broad intervals of elevated Cu-Au-Mo
 (>250-500ppm Cu) associated with
 fracturing 1-2 orders of magnitude above
 background (<10-100 ppm Cu)
- Significant introduction of copper
- Higher Cu associated with K-feldspar alteration – exploration vector
- Higher Cu associated with increased fracture intensity – exploration vector



Oxidised sheeted fracture-vein swarm in outcrop, Chinchillon prospect.

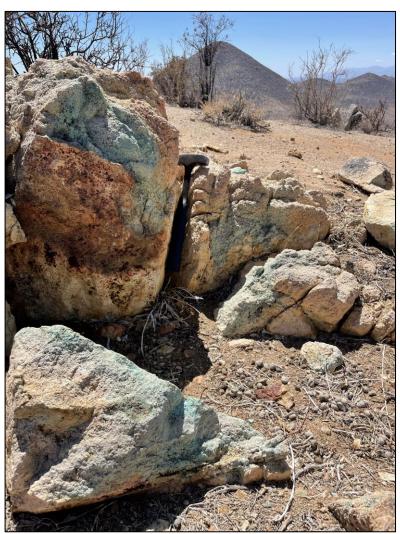


Coarse chalcopyrite-pyrite vein with K-feldspar halo, SLD008 Central prospect.

Chinchillon - Monzonite-hosted Cu-Au and UST



- Dyke swarms and stocks of monzonite invade granodiorite
 - scout drilling tested only 2 dykes
- UST indicates high level (cupola) and potential for fertile Cu-Au system
- Elevated Cu (>300-500ppm Cu) relative to granodiorite indicates the monzonites are a potential driver of the system
- Trace element ratios indicative of Cu-Au system fertility c/f global porphyry Cu-Au deposits
- No previous exploration or drilling of this system



Outcropping monzonite dyke with oxide Cu, Chinchillon prospect. Not drill tested



UST in drillcore with overprinting mineralised fractures.

Copper and Gold — Strong Market Drivers



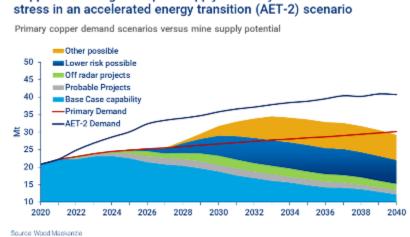
COPPER is powering the clean energy transition

- Electric vehicles (up to 4x more copper compared to internal combustion engine)
- Solar panels, wind turbines, hydro and thermal energy
- Electrical wiring and high-speed telecommunication devices
- Infrastructure spend (driven by Chinese market and US \$1 trillion infrastructure bill)
- Widening supply imbalance lack of investment in new discoveries over the last decade has lowered copper production at a time when it needs to ramp up significantly
- Copper demand to increase 53% to 40 million metric tons (MT) by 2040 creating potential supply shortfall of 14Mt (BloombergNEF, Aug'22)
- "Copper is the new oil" projected to reach \$15,000 by 2025 (Goldman Sachs, May 2021)

GOLD is strengthening and testing beyond USD 2,000/oz

- Unprecedented fiscal and monetary stimulus around the world
- Interest rates increasing globally to combat rising inflation
- New discoveries not keeping pace with the depletion of existing reserves globally





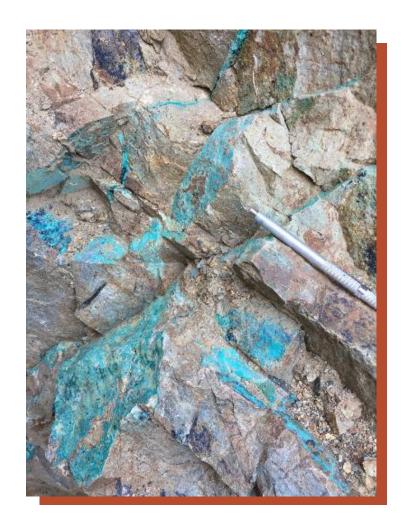
Summary



Largest producer and exporter of copper Chile

Jurisdiction Tier 1 - Globally significant mining location

Copper and gold Strong market drivers San Lorenzo Cu-Au and Especularita Cu-Au Two projects Leveraged for success. No NSR 100% rights Well located near to roads, power, towns Infrastructure Targeting PCD-IR-IOCG Cu-Au deposits Scale Dec. '21 listing on LSE raising c.£3.5m LSE listed **Executive Management** Significant discovery experience in Cu-Au





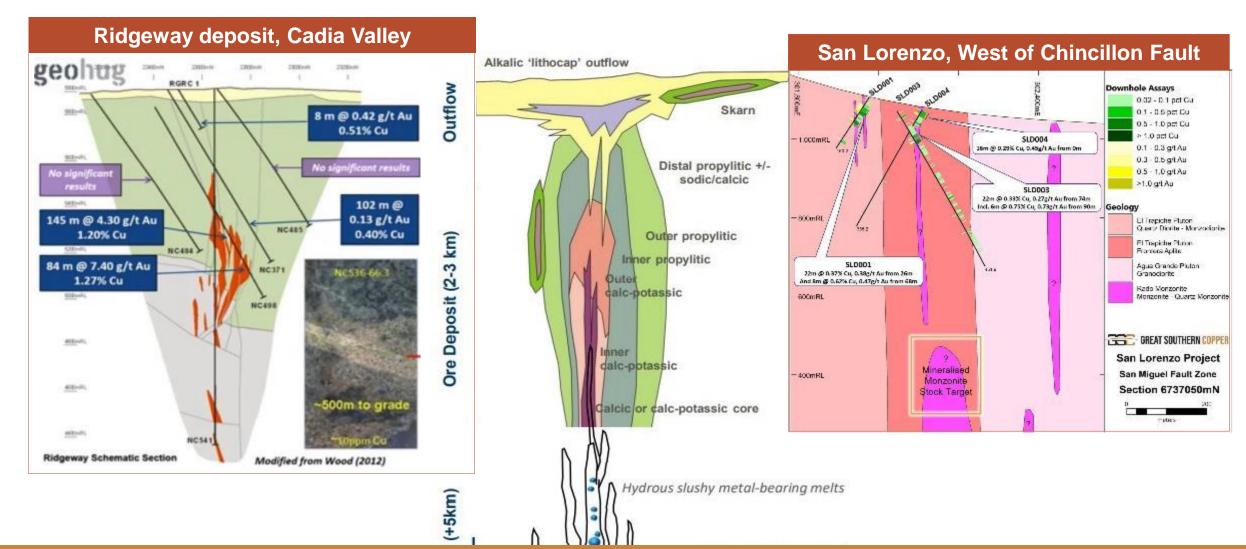
Appendices



Model for Alkali Porphyry Cu-Au Deposits



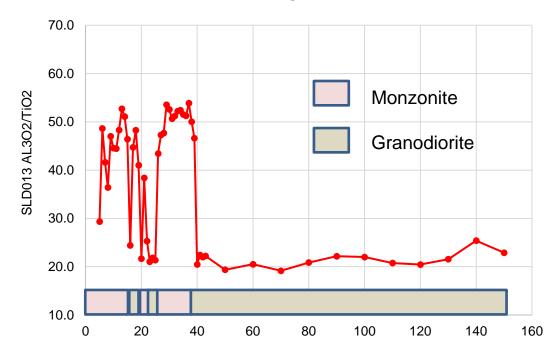
(Holliday and Cooke 2007)



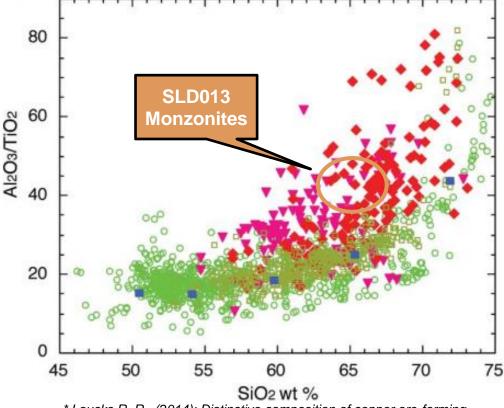
Chinchillon – Trace element ratios SLD013 example



- Al₃O₂/TiO₂, Sr/Y and V/Sc ratios used to determine intrusive fertility for intrusive-related Cu-Au deposits*
- Chinchillon monzonite ratios indicative of Cu-Au ore productive intrusives
- Further studies in progress



- ◆ Global Reference Suite Cu Ore-Productive Intrusives ▼ Global Reference Suite Cu+Au Productive Intrusives
- Chile Southern Volcanic Zone 35-46.5°S Barren 0-23 Ma
- Chile Central Volcanic Zone 21.2-24°S Barren 0-23 Ma
- Circum-Pacific Avg Basalt, Andesite, Rhyolite 0-23 Ma



* Loucks R. R., (2014): Distinctive composition of copper ore-forming arcmagmas, Australian Journal of Earth Sciences, Geological Society of Australia, 61:1 5-16



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Drilling at San Lorenzo project 26