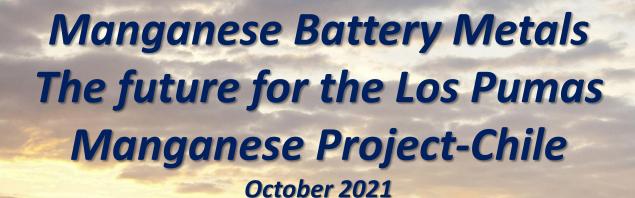


SOUTHERN HEMISPHERE MINING







FOCUS ON THE EV BATTERY MARKET

- SUH is engaging technical specialists to guide process and development option studies for the use of Los Pumas ore in Nickel Cobalt Manganese (NCM) batteries or similar, aimed at the EV market
- SUH target is to provide manganese ores to produce High Purity Manganese
 Sulphate Monohydrate (HPMSM) plus option for up to three additional products
- Mn used in the vast majority of NCM batteries. HPMSM is currently the lowest cost NCM cathode metal and lowers the cost of batteries
- SUH strives to produce Carbon Neutral Manganese for HPMSM or similar

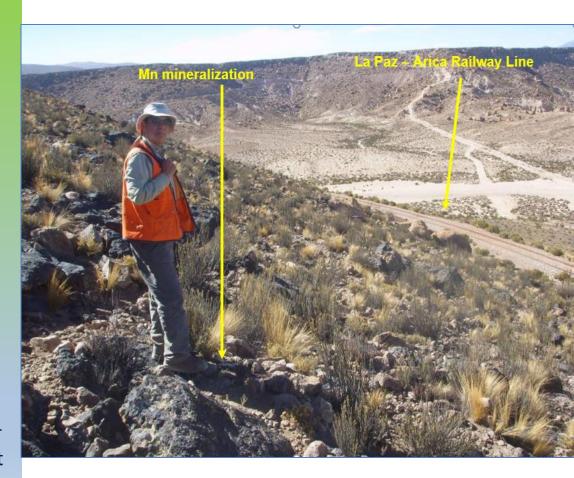






THE LOS PUMAS MANGANESE PROJECT

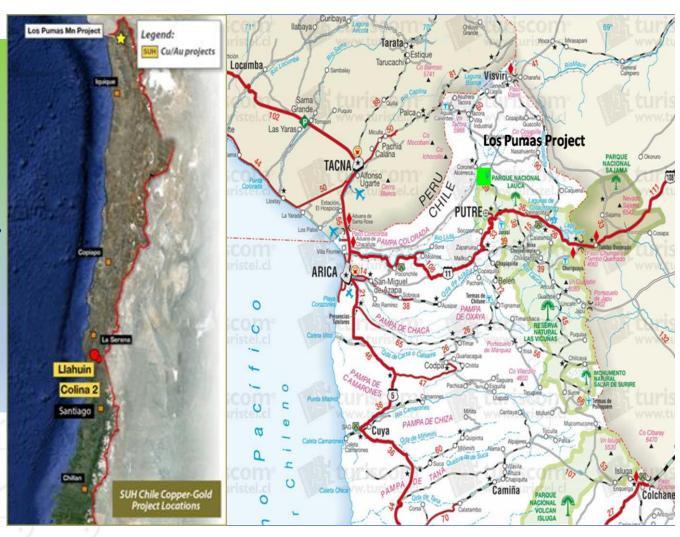
- Project 100% owned locatedNorthern Chile
- Mineral Resource Estimate 23.7Mt
 @ 7.81% Mn (4% Mn COG) (ASX release
 25 March 2011 Resources & ASX 2 February 2011 PEA)
- 38% Mn concentrate from initial metallurgical Test work
- Low Iron & Phosphorous, High Silica
- Close to Surface
- Simple Mining 2.5mtpa plant
- Strip ratio circa 1:1
- Excellent logistics and near mine infrastructure
- Project plan to utilise hydro and solar power and minimise carbon footprint in all phases of production in this low population area





LOCATION

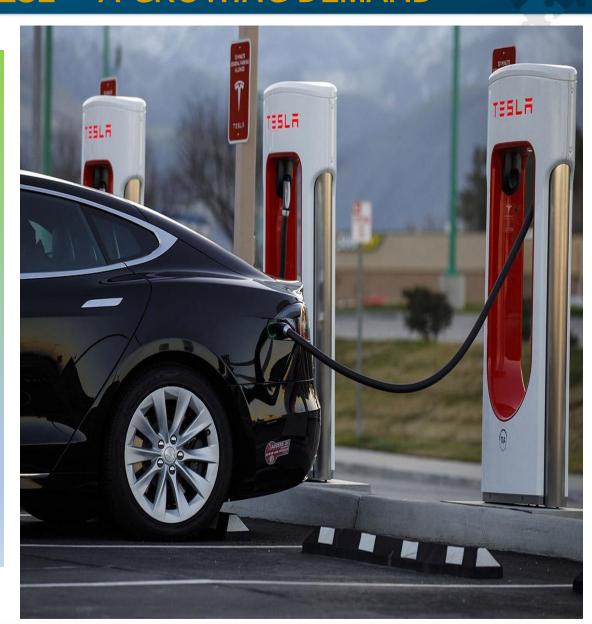
- Los Pumas located in northern Chile
- 175km from Arica (Port city)
- Main port for Bolivia
- Exports & Imports Tin,Steel, Leadconcentrate & Soya
- Location is close to USA west coast and China for optimal end user supply





MANGANESE - A GROWING DEMAND

- Manganese (Mn) is the fourth most used metal on earth in terms of tonnage
- Used in steel, specialty alloys and aluminium products
- Traditionally the market has been dominated by the steel and alkaline battery industries
- The electrification of the global vehicle fleet requires vast amounts of cathode materials
- Batteries are trending toward higher manganese content for safer, more cost-effective solutions

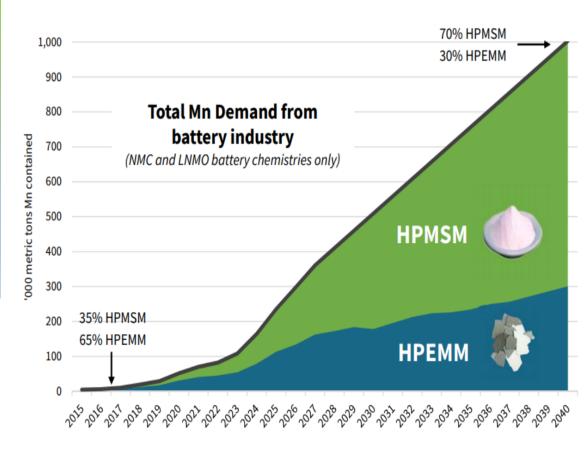




HIGH PURITY MANGANESE

- Nickel and cobalt supply constraints to meet the demand for projected EV growth
- Tesla and VW plan to mass produce a new battery with a high proportion of manganese and no cobalt - Tesla ~ 33% Mn & VW >50% Mn
- The new cathode designs are expected to reduce costs without compromising performance





Ref: Future Battery Industries – Li-ion battery cathode manufacture in Australia

Page 6 SOUTHERN HEMISPHERE mining limited

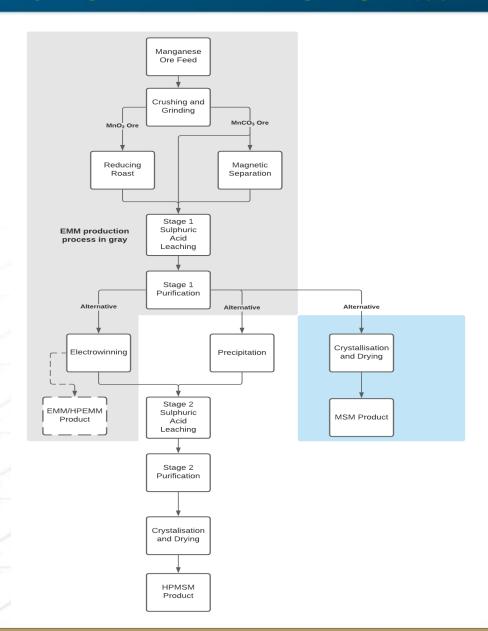


PROCESS ANALYSIS TO PRODUCE HPMSM

- The option for a reducing roast, sulphuric acid leach and intermediate electrowinning before HPMSM crystallisation proved to be the most efficient process, with lowest technical risk
- The flowsheet analysis has identified that the following three additional products could be produced by eliminating different steps in the identified process
 - Electro manganese metal (EMM)/ High purity EMM (HPEMM) established market
 - Agricultural manganese sulphate monohydrate (MSM) growing market
 - Sulphate of Potash is a by-product of the HPMSM process (SOP growing market)
- The ability to produce a range of different products enhances the robustness of the Los Pumas
 Manganese Project
- SUH engaged Minassist Pty Ltd to carry out a review to assess the optimal process flowsheet to product HPMSM from Los Pumas material (ASX release 6
 October 2021)



PROCESS FLOWSHEET - HPMSM & Alternatives

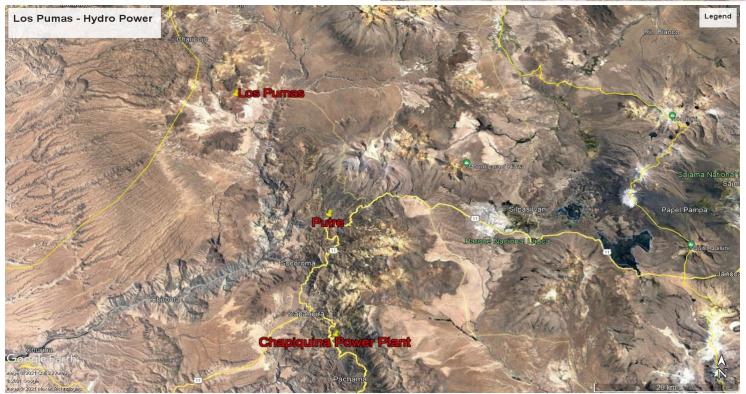




LOS PUMAS INFRASTRUCTURE

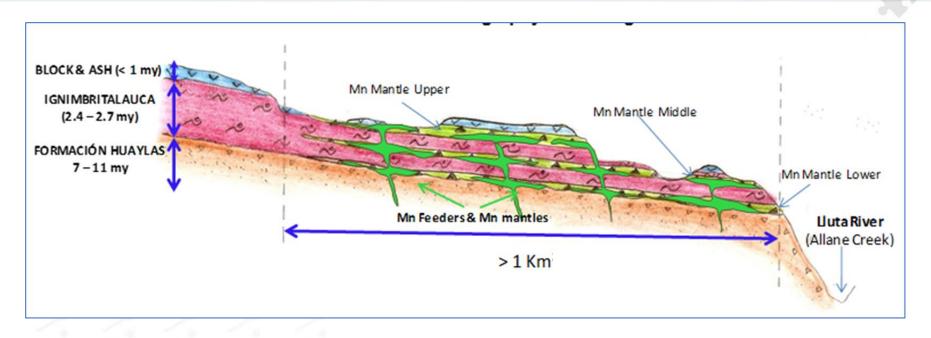
- Arica La Paz railway line runs next to Los Pumas
- Chapinquina Hydroelectric Power~ 55km from Los Pumas
- Town of Putre ~ 35km workers,
 logistics and equipment support







SIMPLE GEOLOGY - GOOD MINING PARAMETERS



- Sub-horizontal mineralization (in top 20 meters) with negligible stripping in early years
- Excellent potential to increase resources laterally and deeper
- Resource limited to drilling
- Drilled on average to 27 meters depth
- Vertical feeder zones have not been tested (vertical drilling used only)



PEA/SCOPING STUDY OVERVIEW

Geology & Drilling

- Deposit hosted by the Huaylas Formation (Upper Miocene age) and the Lauca Ignimbrite (Upper Pliocene)
- Lauca Ignimbrite hosts most of the manganese mineralisation at Los Pumas
- Sub-horizontal mineralization (in top 20 meters)
- 487 holes of RC completed for 14,024 m
- 32 diamond holes for 652m mainly for metallurgical holes and bulk density samples
- 220 holes to 1m depth at surface assayed and included in the resource effective grade control for early mining
- 11 samples from 4 shafts (depths between 16 to 20m) for dense media pilot plant testing and comminution tests

Processing

- Throughput 2.5mtpa
- Concentration is best achieved via Dense Media Separation (DMS)
- Proposed process plant consists of a three-stage crushing circuit, screening facilities, and two stage dense media separation
- DMS plant split into coarse and fine circuits to maximise efficiency from the cyclones to suit the size ranges
- 38% Mn concentrate from initial metallurgical Test work

Environmental & Social

Environmental Impact Statement completed – resubmission required

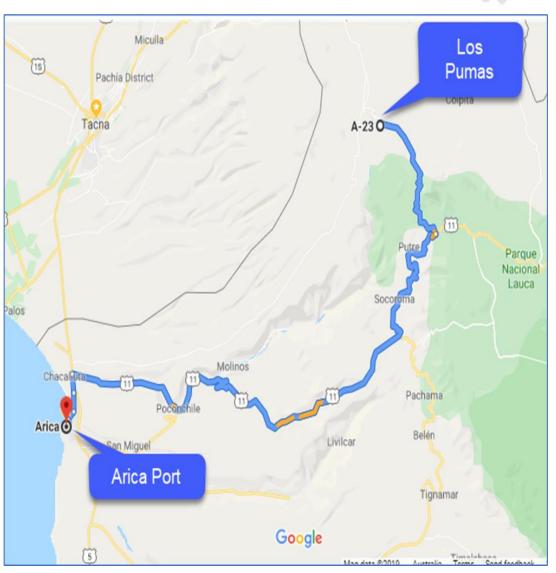
(Ref: ASX release 25 March 2011 - Resources & ASX 2 February 2011 - PEA)



LOGISTICS

- 175km by sealed road and railway to the Arica port
- Arica La Paz railwayline re-opened May 21
- Opportunities for lower transport costs







PATHWAY TO CARBON NEUTRALITY

- Emissions impact will be an integral part of our project plan and possible future mine design, not an add-on or an afterthought
 - Minimise transportation of consumables and people to/from site
 - Energy efficiency key consideration for all mine processing equipment
 - Water usage recycling, reducing, reusing
 - Circular economy minimise waste, reduce/reuse wherever practical
 - Adherence to global climate standards
 - Task Force on Climate-related Financial Disclosures
 - Sustainability Accounting Standards Board
 - United Nations Sustainability Development Goals
 - Look to implement ESG reporting





































NEXT STEPS





- SUH engaging technical specialists to guide process and development option studies for the use of Los Pumas ore in NCM batteries and EV markets
- Capex from historic PEA study (ASX Release 2 Feb 2011) was US\$74.2m
- Engineering studies underway to revise and reduce
- Bring in a JV end user partner (EV Manufacturer or EV Battery manufacturer) to develop the Los
 Pumas Manganese Project to supply a carbon neutral battery cathode
 product

Page 14



LOS PUMAS MANGANESE RESOURCE

Los Pumas Manganese Project: Total Measured and Indicated Resources - JORC (2004) Compliant. As announced to the market on 25 March 2011.

Resource (at 4% Mn cut-off)	Tonnes Millions	Mn %	SiO₂ %	Fe ₂ O ₃ %	Al %	К%	P %
Measured	5.27	7.39	57.85	2.78	5.62	2.88	0.05
Indicated	13.06	7.65	55	2.96	5.64	2.92	0.05
Measured plus Indicated	18.34	7.58	55.82	2.91	5.62	2.91	0.05
Inferred	5.39	8.59	51.44	2.72	5.49	2.69	0.06
Total	23.73	7.81					

Metallurgical studies have demonstrated greater than 38% Mn concentrates are achievable by DMS with low impurities and high silica product.

In relation to the above resources, the Company confirms that it is not aware of any new information or data that materially affects the information in the announcements, and all material assumptions and technical parameters in the announcements underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.



Disclaimer Notice

This presentation has been prepared by Southern Hemisphere Mining Limited a.c.n 140 494 784 ("SUH", "Southern Hemisphere" or the "Company"). This presentation contains certain forward – looking information and forecasts. Such forecasts, projections and information are not a guarantee of the Company's future performance and include unknown risks and uncertainties. Accordingly, the actual results and developments may differ from those expressed or implied. SUH makes no representation and can give no assurance, guarantee or warranty, express or implied, as to, and take no responsibility and assume no liability for, the authenticity, validity, accuracy, suitability or completeness of, or any errors in or omission, from any information, statement or opinion contained in this presentation. Nothing in this presentation should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities. You should conduct your own analysis in order to satisfy yourself as to the accuracy and completeness of the information, statements and opinion contained in this presentation.

Process Specialist

Process modelling and analysis was undertaken by Dr Will Goodall, Principal Consultant, MinAssist Pty Ltd. Dr Goodall is a metallurgical process consultant with 20 years' experience in process development and optimisation across a wide range of commodities. With a focus on battery and specialty metals Dr Goodall has undertaken process assessment and development for several battery metal projects, including detailed assessment of alternative feedstocks and process options for production of HPMSM.

Competent/Qualified Person Statement

The information in this presentation that relates to exploration activities, exploration targets, exploration results or Mineral Resources, was prepared under the supervision of Adam Anderson who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Anderson has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as a "competent person" as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Anderson has reviewed and approved the information contained in this presentation.

For further information regarding the projects, including a description of SUH's quality assurance program, quality control measures, the geology, samples collected and testing procedures in respect of SUH's projects, please refer to the Technical Reports and News Releases on the Company's website at www.shmining.com.au. In relation to resources, the company confirms that it is not aware of any new information or data that materially affects the information in the announcements and all material assumptions and technical parameters in the announcements underpinning the estimates in the relevant market announcement continue to apply and have not materially changed