



# LPI: Maricunga, Chile's next Lithium Brine Project

Annual General Meeting - 25 November 2020



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## Competent Person's Statement

The information contained in this presentation relating to Mineral Resources has been compiled by Mr Murray Brooker. Mr Brooker is a Geologist and Hydrogeologist and is a Member of the Australian Institute of Geoscientists and has sufficient relevant experience 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. He is also a "Qualified Person" as defined by Canadian Securities Administrators' National Instrument 43-101. Murray Brooker consents to the inclusion in this announcement of this information in the form and context in which it appears. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

## Reference to Resource Estimate

The reader is referred to the announcement by LPI on the 21 January 2019, which provided details of the updated Maricunga reserve estimate and resource update in accordance with Appendix 5A (JORC Code). The reader is also referred to the Definitive Feasibility Study which was announcement by LPI on 22 January 2019.

## Cautionary note regarding reserves and resources

You should be aware that as an Australian company with securities listed on the ASX, the Company is required to report reserves and resources in Australia in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves ("JORC Code"). You should note that while the Company's reserve and resource estimates may comply with the JORC Code, they may not comply with the relevant guidelines in other countries and, in particular, do not comply with Industry Guide 7, which governs disclosures of mineral reserves in registration statements filed with the U.S. Securities and Exchange Commission. The JORC Code differs in several significant respects from Industry Guide 7. In particular, Industry Guide 7 does not recognise classifications other than proven and probable reserves and, as a result, the SEC generally does not permit mining companies to disclose their mineral resources in SEC filings. Information contained in this presentation describing the Company's mineral deposits may not be comparable to similar information made public by U.S. companies subject to the reporting and disclosure requirements of United States securities laws. You should not assume that quantities reported as "resources" will be converted to reserves under the JORC Code or any other reporting regime or that the Company will be able to legally and economically extract them.

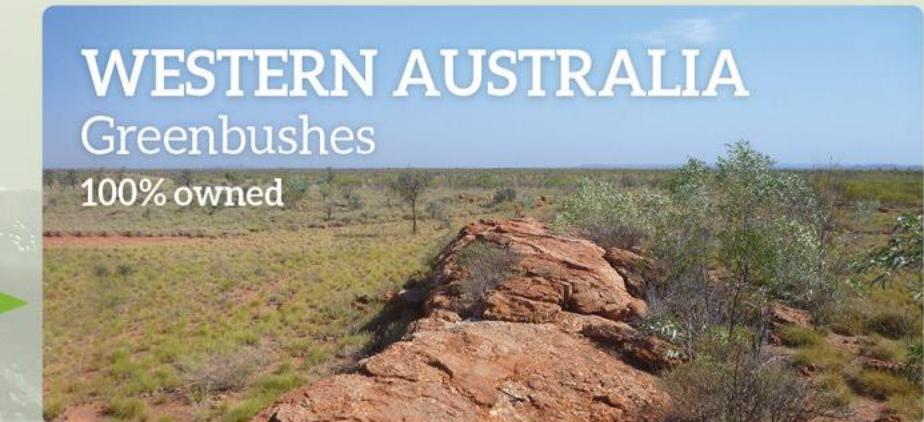
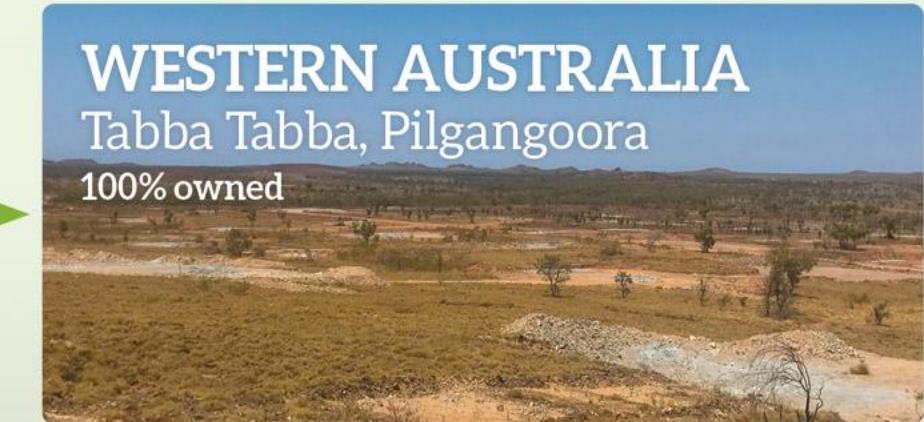


# LPI at a glance

BRINE - South America



HARD ROCK - Australia





# Strong leadership and support

## Board of Directors

<b>Mr David R Hannon</b>	<i>Chairman</i>
<b>Mr Cristobal Garcia-Huidobro</b>	<i>CEO and Managing Director</i>
<b>Mr Richard A Crookes</b>	<i>Executive Director (Corp Finance)</i>
<b>Mr Russell C Barwick</b>	<i>Non-Executive Director</i>
<b>Mr Ricky P Fertig</b>	<i>Non-Executive Director</i>
<b>Mr Martin Borda</b>	<i>Non-Executive Director</i>
<b>Mr Andrew G Phillips</b>	<i>CFO and Company Secretary</i>

## Substantial Shareholders (June, 2020)

Directors & Management	23.0%
HSBC Custody Nominees	12.3%
CS Third Nominees Pty Ltd	8.1%
UBS Nominees Pty Ltd	6.1%
Yarandi Investments Pty Ltd	3.6%
JP Morgan Nominees	2.6%
G Harvey Nominees Pty Ltd	2.5%
Merrill Lynch Nominees	1.1%
Brispot Nominees	1.1%

## Research Coverage

<b>Canaccord Genuity</b>	<i>Reg Spencer</i>
<b>RK Equity</b>	<i>Howard Klein &amp; Rodney Hooper</i>
<b>Pitt Street Research</b>	<i>Stuart Roberts</i>

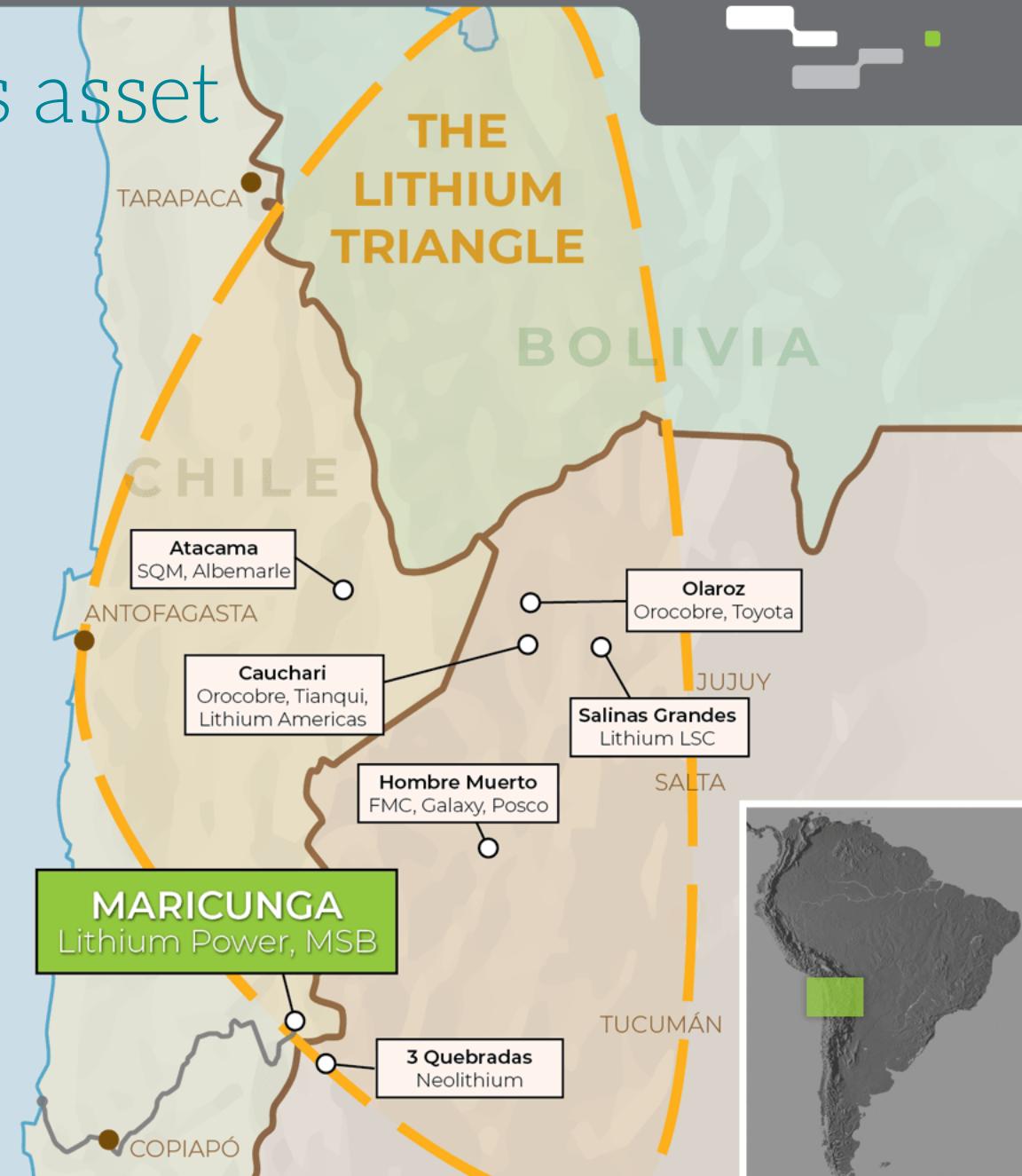
## Capital Structure

ASX Code	LPI
Shares on Issue	262.5M
Cash at bank @ 30 Sept 20	AU\$6.7m
– LPI Circa – Chilean JV Circa	US\$0.4m
Unlisted Options exercise price – 25 cps <sup>1</sup> (average)	46.3m (AU\$11.58m)

<sup>1</sup> Majority of Unlisted options expire June 23<sup>rd</sup>, 2021 (majority held by founders)

# Maricunga, Chile: a world class asset

- Minera Salar Blanco S.A. (**MSB**) is the joint venture that owns the **Maricunga** project. Ownership is 51% Lithium Power International (ASX:LPI), 31% Borda Group and 18% Bearing Lithium (TSXV: BRZ).
- Maricunga is **Chile's highest grade and most advanced lithium project** outside the Salar de Atacama.
- 2019 Definitive Feasibility Study (DFS) by WorleyParsons supports **20,000 tonnes per annum production of LCE over 20 years**.
- DFS shows **pre-tax NPV of US\$1.302 billion and IRR of 29.8% assuming a 50% debt/equity ratio (after-tax NPV of US\$940 million, IRR 26.7%)**. On a 100% Equity Basis, NPV of US\$1.286 billion, IRR of 23.8%.
- **Forecast CAPEX of US\$563 million** includes direct development costs of US\$456 million, indirect costs of US\$45 million and contingencies of US\$63 million.



# Maricunga, Chile: a world class asset

- To rank as **one of the lowest-cost lithium carbonate producers** globally. **Operating costs estimated at US\$3,772 per tonne** of LCE.
- **Maiden ore reserve estimate of 742,000 tonnes** LCE exceeds 20-year mine life production needs, meeting JORC and NI 43-101 standards.
- **Potential to expand resources and reserves** below the existing resource – currently defined to 200m. Exploration target between 200m – 400m confirmed by deep borehole results, can add between 2.5Mt – 3.5Mt of new resources.
- **First battery grade Li<sub>2</sub>CO<sub>3</sub> samples**, meeting commercial high-quality battery grade specifications were produced during 2018 using Maricunga's brine from test evaporation ponds (99.4% purity Li<sub>2</sub>CO<sub>3</sub> reached).
- **Maricunga EIA awarded in February 2020** by the Chilean Government.
- **Approval received** for the use of electricity infrastructure. Water supply secured.
- **Financing discussions underway.** Approaches received from international companies for off-take deals.
- **EPC bidding process** expected to be finalised in H1 2021.



# Outstanding economics - released with the DFS<sup>1</sup>

## Production<sup>2</sup>

**20,000 t/a LCE**  
over 20 years

## Operating Cost

**US\$ 3,772/t**

## Development Cost

**US\$ 563M**

Direct development costs of US\$456M, indirect costs of US\$45M and contingency costs of US\$63M.

## NPV

100% equity

50/50 debt/equity

**Pre-tax**

**US\$1.286B**

**US\$1.302B**

**After-tax**

**US\$908M**

**US\$940M**

## IRR (50% leverage)

**29.8%<sup>3</sup>**

## Payback

**3.5 years**

based on **2-year** ramp-up

<sup>1</sup> The Definitive Feasibility Study (DFS) was finalised and released to the market in January 2019

<sup>2</sup> The battery grade lithium carbonate price expected to range from US\$13,263/tonne in 2023 to US\$17,616/tonne in 2032 in inflation adjusted terms.

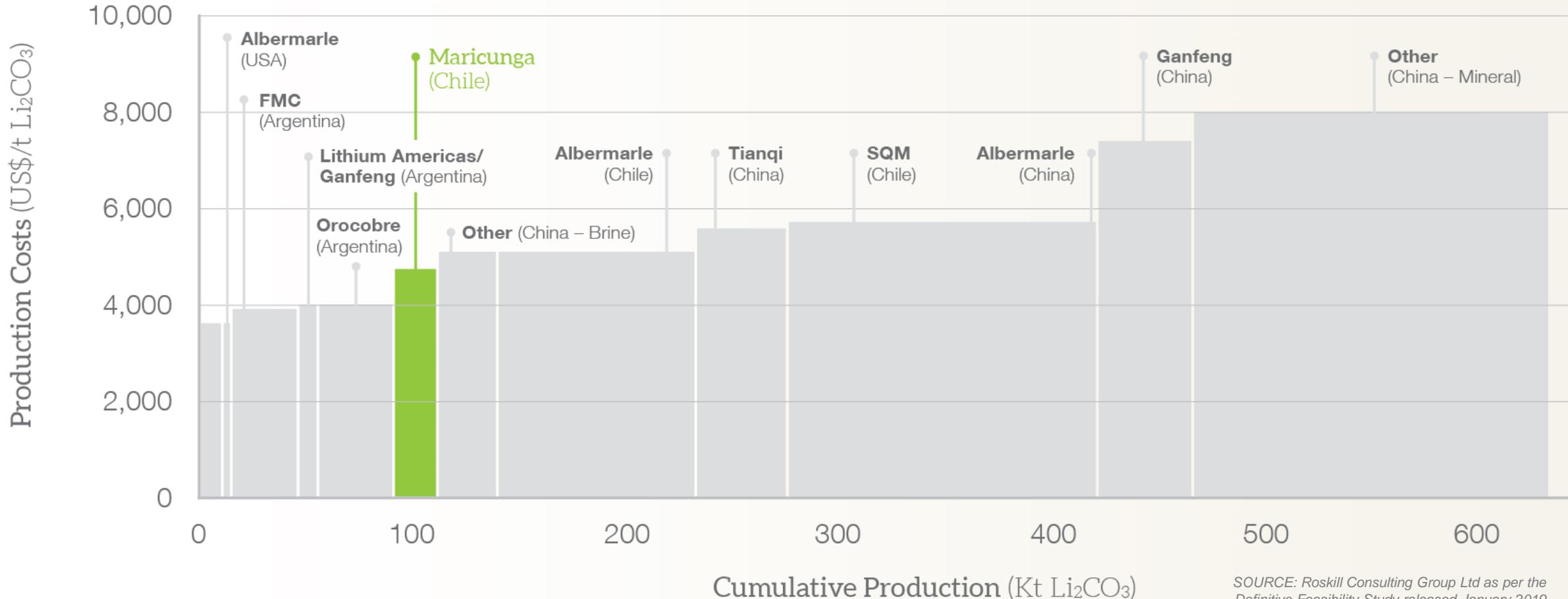
<sup>3</sup> After-tax IRR 26.7% assuming a 50% leverage. On a 100% Equity Basis, the pre-tax IRR of 23.8%, after-tax IRR of 21%.

# Maricunga: outstanding economics



**Roskill**

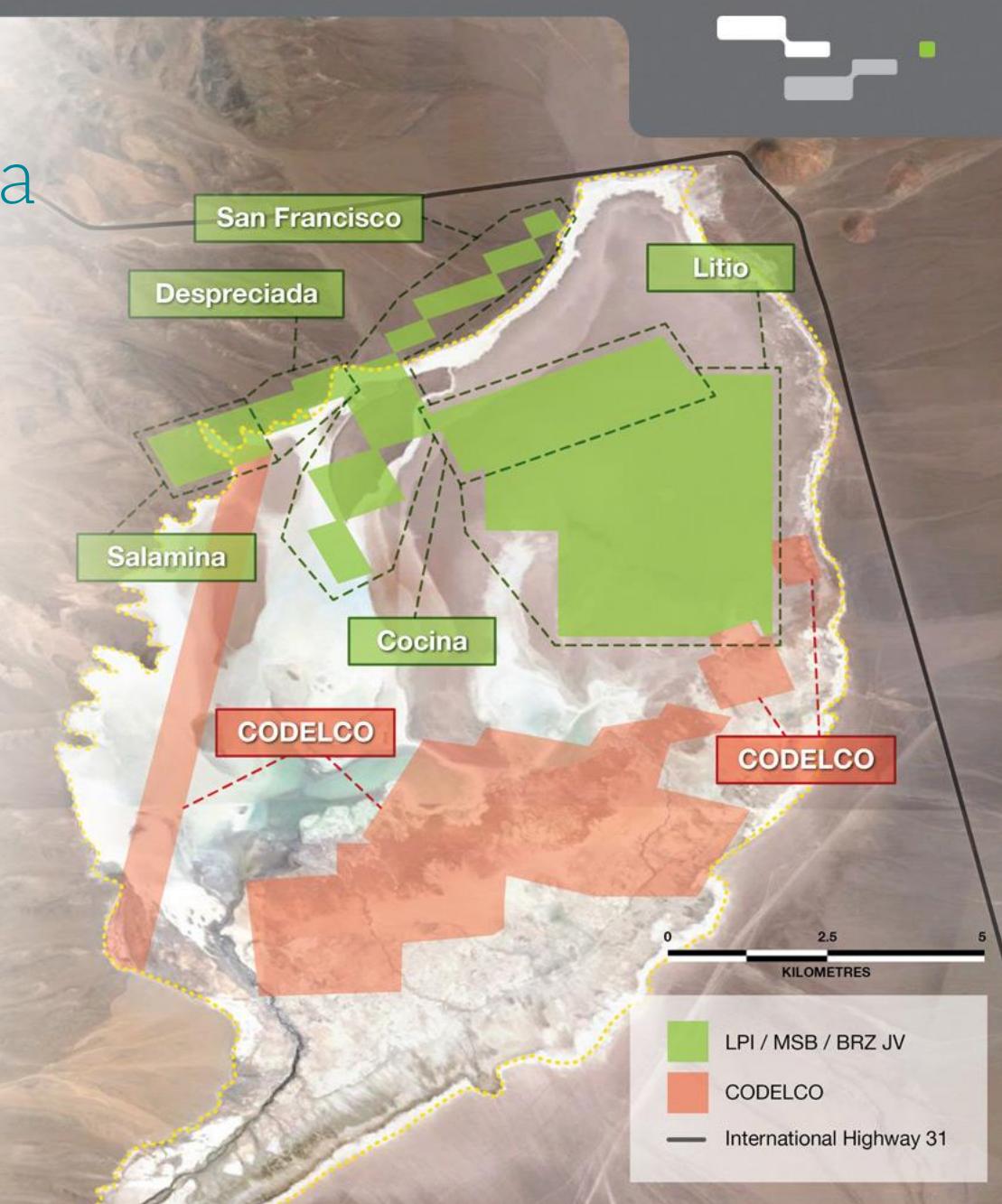
Lithium carbonate cash cost curve, including royalties, 2027 (US\$/t) – January 2019



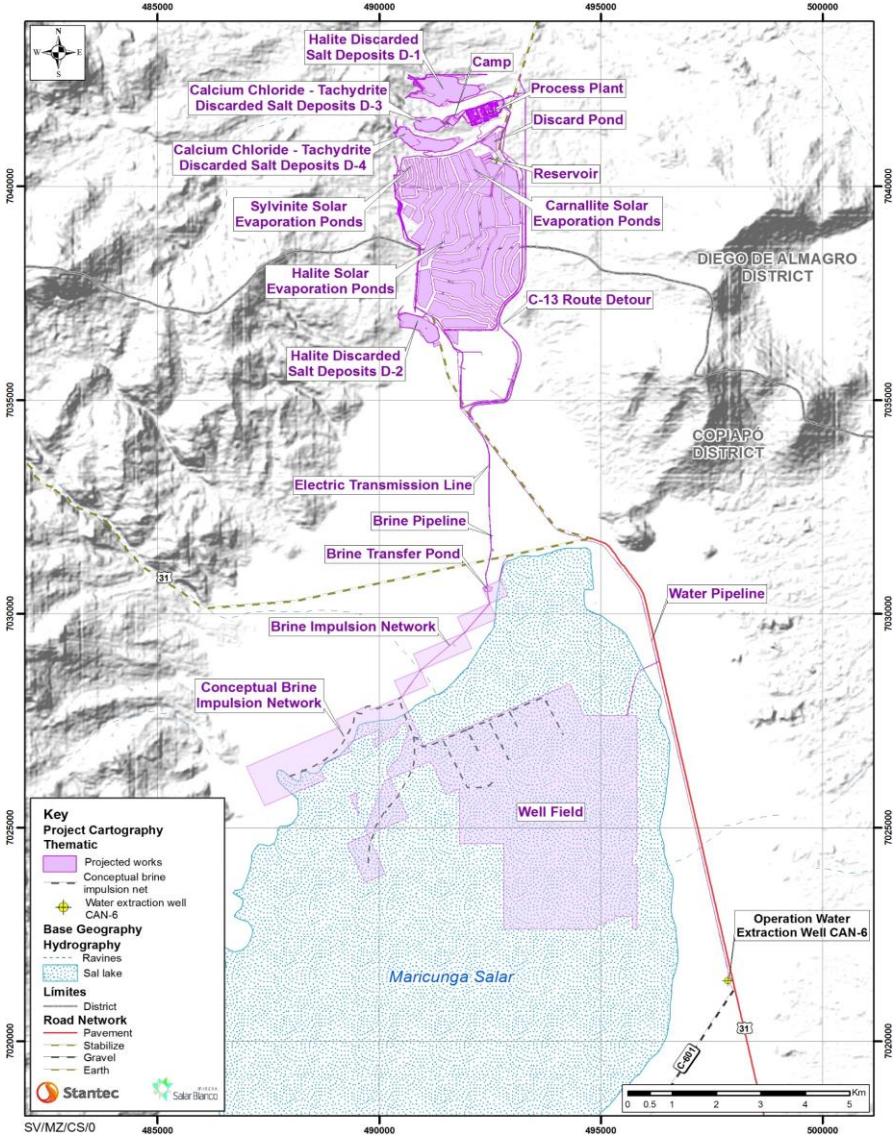
SOURCE: Roskill Consulting Group Ltd as per the Definitive Feasibility Study released January 2019

# MOU with CODELCO to study the joint development of the Maricunga

- Chilean state-owned enterprise **CODELCO** and **Minera Salar Blanco S.A. (MSB)** have signed a non-binding Memorandum of Understanding (MOU) to study and jointly develop the Maricunga Salar Lithium Project. This potential JV is still under review between the parties, with a resolution expected by Q4 2020.
- The award of **MSB's EIA** in February 2020 completes all permitting for the LPI "old code" mining concessions, which are all concessions except Litio, meaning existing permitting would allow for the construction of the project to commence immediately.
- The consolidation of the mining concessions, under a JV with CODELCO, would give MSB access to CODELCO's CEOL licence enabling to add the "new code" concession, "Litio", to the project.
- A JV will result in the option of **increasing production capacity and/or the life of the mine** beyond its expected 20-year life span.



# Maricunga: layout



- Brine will be pumped 5km to evaporation ponds, and to the lithium carbonate plant for production.**
- Water rights have been secured** throughout the mine life.
- Government approval** given for the use of electricity infrastructure. Energy to be supplied through existing nearby transmission line.
- Good existing roads** from project to coast.
- Port and logistics assessment** fully completed.



# Maricunga: environmental and community



- **The Environmental Impact Assessment (EIA) was submitted** to the Chilean Government authorities in September 2018.
- **The environmental regulator SEA approved the EIA on February 4<sup>th</sup> 2020, on schedule.**
- The EIA **includes the construction and operation** of a potassium chloride (KCl) plant, which will be considered once sufficient potassium salts have accumulated after the operation of the lithium carbonate plant has started.
- The Company has **strong relationships** with indigenous and local communities within the project area. MSB has established a mechanism for these communities to **benefit from the revenues derived** during the operating phase due to the increased vehicular activity.
- MSB has very strong links with the **Chilean Government** and has their support in MSB taking the lead to develop the Maricunga



# Centenario: a renewed focus

## Centenario, Argentina

70% Ownership

- **70:30 Joint Venture** between LPI and Marquee Resources Limited.
- **Located in the centre of 'The Lithium Triangle'** in the mining friendly Salta province.
- **Covers an area of 68km<sup>2</sup>** in the Centenario lithium brine salar across six adjoining properties.
- Currently considering strategies regarding LPI's 70% ownership of Centenario.



# Hard rock lithium exploration

## Tabba Tabba, North West W.A.

Western Australia - 100% Ownership

- **20km strike of highly prospective greenstone** units north-west of FMG's drilling at Tabba Tabba.
- Positive results on the extensive soil survey over the greenstone belts within the properties, **demonstrated elevated concentrations of lithium (up to 689 ppm) in addition to caesium, tantalum, tin and beryllium** - all indicators for productive LCT lithium pegmatites.
- **Development program completed in Q4 2019** and consisted of 31 holes for 3081m. Drilling returned maximum values of 0.47% Li<sub>2</sub>O, with several areas within the project not drill tested.
- **All tracks and pads** constructed for this drilling program **have been rehabilitated** with drilling suspended due to COVID-19 restrictions.
- Further exploration likely in 2021.



# Hard rock lithium exploration

## Strelley & Pilgangoora, North West W.A.

Western Australia

- Following soil sampling, desktop analysis and a low level drilling in 2018, both tenements showed little mineral potential.
- **Strelley**, divested to in Q3 2020, LPI retains some equity in the purchasing company.
- **Pilgangoora**, currently being assessed for possible divestment in Q4 2020.



# Hard rock lithium exploration

## Greenbushes – South West W.A.

Western Australia - 100% Ownership

- **Tenements extend over 400km<sup>2</sup>** and contain large strike lengths of the same rock that hosts adjacent Greenbushes lithium mine, the world's largest lithium producer.
- Tenements include the **Balingup project** and the **Brockman Highway project**.
- **Agreement has been reached** with two separate native title holders that cover the area.
- **An Environmental Management Plan for Exploration and Prospecting** for the State Forests in the tenement area and the **Program of Works** are **approved for 4 years**.
- **Surface sampling completed in Q4 19 & Q1 20** giving encouraging results and providing drilling targets for further exploration in 2021.



# LPI: a compelling investment opportunity



- **Diversified lithium Company:** Brine and Hard Rock assets.
- **Solid Team and Tier-1 Engineering companies** undertaking project development for low risk development.
- **Definitive Feasibility Study (DFS)** released January 2019.
- Maricunga is one of the **most advanced project in South America**.
- **Environmental permit received** in February 2020.
- **Financing structuring and off-take discussions** underway.
- **High quality brine** resource in a stable mining jurisdiction.
- Use of **traditional and well proven** production processes.
- Working with **worldwide leading engineering companies** and equipment suppliers



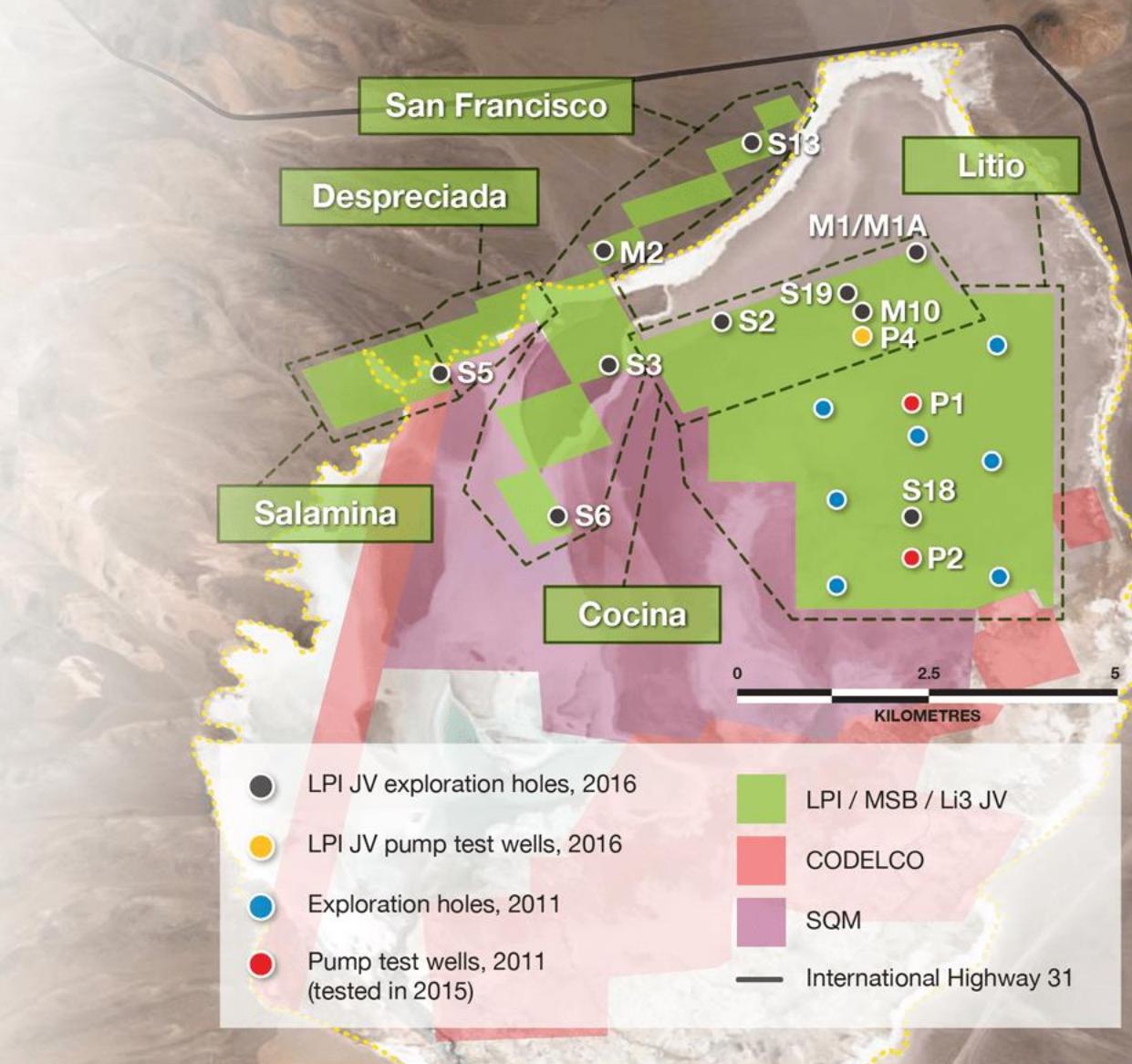


# Appendices



# Maricunga: resources (drilling results)

- **Extensive Sonic and RC drilling** totalling more than 5,150m and over 1,000 brine samples taken, including more than 300 core samples analysed for drainable porosity.
- Results from the drilling program averaged **1,167 mg/l Li and 8,500 mg/l K**.
- **360m Deeper drilling** a game changer for expanding the resource if needed in the future.
- Deep hole S19 encountered a continuation of the lower brine aquifer with lithium concentrations above **900mg/l Li**.
- An exploration target is therefore defined below the base of the current resources to a depth up to **400m**.
- The exploration target provides **significant potential for resource expansion**.



# Maricunga: mineral resource estimate



	Measured		Indicated		M&I	
	Li	K	Li	K	Li	K
Area (km <sup>2</sup> )	18.88		6.43		25.31	
Aquifer volume (km <sup>3</sup> )	3.05		1.94		5	
Mean specific yield (Sy)	0.04		0.11		0.07	
Brine volume (km <sup>3</sup> )	0.13		0.21		0.35	
Mean grade (g/m <sup>3</sup> )	48	349	128	923	79	572
Mean concentration (mg/l)	1,175	8,624	1,153	8.306	1,167	8,500
Resource (tonnes)	776,700	1,065,000	1,293,300	1,754,000	2,070,000	2,818,000

Exploration target between 200m – 400m with a potential between 1Mt – 2.5Mt of new resources

# Maricunga: porosity and permeability

- Halite, gravel, sand and volcanioclastic sediments have **excellent drainable porosity and permeability characteristics.**
- **More than 60 days of pumping tests at different depths were done** during the development process.
- **Pumping confirms the high flow rate** characteristics of the sediments, which have a high permeability and allows pumping at a high flow rate: very positive for long term brine extraction from the salar.
- **Flow rates are comparable** to those of major lithium brine producers.



# Unrivalled project quality

- **Production process design, engineering and testing** was led by Tier-1 German Engineering company, GEA Messo, one of the leading suppliers for production plants to the lithium industry worldwide.
- **First battery grade  $\text{Li}_2\text{CO}_3$  samples**, meeting commercial high quality battery grade specifications were produced during 2018 using Maricunga's brine from our test ponds (99.4% purity  $\text{Li}_2\text{CO}_3$  reached).
- **Pilot evaporation ponds** were operated for more than 18 months on site.
- **Definitive Feasibility Study** (DFS) by WorleyParsons completed in Jan 2019, indicates Maricunga to be a low-cost lithium producer with attractive economics.
- **Optimization of lithium** production to develop the lowest cost process with highest possible recoveries.



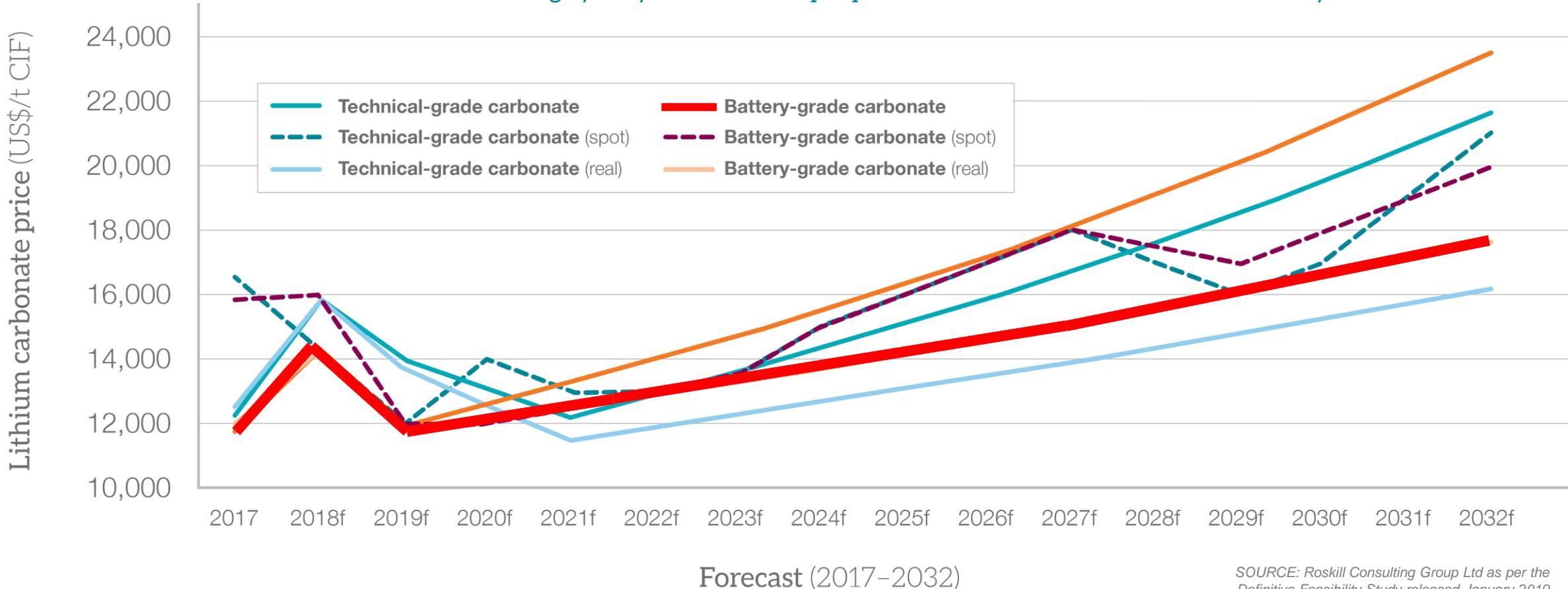
MSB Lithium carbonate sample

# Maricunga: outstanding economics



## Roskill

Forecast average yearly contract and spot price trend for lithium carbonate – January 2019



# Lithium Power Board



## Mr David R Hannon

Chairman

LPI founding shareholder. Founding director and former Chairman of Atlas Iron Ltd which grew to over A\$3b market capitalisation.

30 year career in the finance industry with a focus on property, mining and international investing.



## Mr Richard A Crookes

Executive Director - Corporate Finance

Geologist with over 30 years of experience and a deep involvement in all aspects of mining projects, including exploration, mineral resource development, mine operations, environmental management, mine fleet selection, project finance and project management.



## Mr Cristobal Garcia-Huidobro R

Chief Executive Officer and Managing Director  
BASED IN CHILE

Civil engineer with 18 years of experience in the development and financing of mining, energy, infrastructure, finance and property projects who has led MSB's exploration and development program for the Maricunga Salar.



## Mr Andrew G Phillips

CFO and Company Secretary

Over 25 years of commercial and financial experience. Previous senior management roles with Aristocrat, Allianz, Hoya Lens, and Sequoia, with additional Board experience in the small cap resources sector.

# Lithium Power Board



**Mr Russell C Barwick**

Non-Executive Director

Mining engineer with over 40 years of experience globally. Formerly Rio Tinto, Placer Dome, CEO of Newcrest, and COO of Goldcorp. Extensive management and technical experience globally including Latin America.



**Mr Martin Borda M**

Non-Executive Director  
BASED IN CHILE

Economist with over 40 years of experience in a range of industries in Chile and internationally. He was a major stakeholder in the early development stages of the Maricunga Lithium Brine Project.



**Mr Ricky P Fertig**

Non-Executive Director

Founding director and senior executive with 30 years of international commercial experience across property, healthcare and mining services sectors.

# Lithium Power Technical Committee



## **Andres Lafuente**

Chief Operating Officer

Senior Executive with 24 years of experience in Financial and Infrastructure companies. Previously GM for Scotia Bank in Chile, and Corporate Manager and Compliance for Euroamerica Financial and Life Insurance.

## **Frederick Reidel**

QP under TSX NI 43-101

Hydrogeologist with 25 years of experience in water, lithium brine and infrastructure projects in North & South America. Undertook the reserve evaluation and feasibility study for Orocobre at the Olaroz lithium brine project. Technical advisor to Lithium Americas on the Cauchari lithium brine project. Participated in the initial resource evaluation for FMC's Hombre Muerto lithium brine project.

## **Tarek Halasa**

Chief Development Officer

Civil Engineer with 17 years of international experience, specialising in project and cost management, feasibility studies, and sub-contractor management. Previously held the role of Construction Coordinator for Bechtel for the past 8 years, working on projects for BHP, Xstrata, Anglo, and BP.

## **Peter Ehren**

QP under TSX NI 43-101

Independent consultant and industry expert in development processes and technical and economic assessment for new brine projects, especially relating to lithium and potassium. Currently also consulting to Orocobre on the Olaroz project. Previously designed and evaluated projects in Chile, Argentina, China, and Australia.

# Lithium Power Technical Committee



## Carlos Espinoza

Current Associate Professor of University of Chile with extensive experience in hydrogeological simulation and modelling, baseline studies, evaluation of environmental impact studies and water resources, and evaporation well simulation (Salar de Atacama).

## Murray Brooker

QP/CP under TSX NI 43-101/JORC

Independent consultant and hydrogeologist specialising in lithium brine over the last 8 years, with 25 years of total experience in mining and exploration. Areas of expertise include: project management, project evaluation and feasibility, and geological interpretation and reporting. Has previously led teams in Chile, Argentina, and Australia. Was the JORC Competent Person to Orocobre on their Olaroz lithium brine project.

## Hugo Barrientos Ruiz

Over 30 years of experience as Mechanical Engineer with an extended background in leading companies such as SQM. Former Engineer Project Manager at Lithium Americas.



# LPI: Maricunga, Chile's next Lithium Brine Project

Noosa Mining Conference- 11 November 2020

