

ASX:GLN FSX:9CH

# DEVELOPING HIGH-GRADE LITHIUM BRINE PROJECTS IN ARGENTINA

January 2021

# DISCLAIMER AND IMPORTANT INFORMATION

This presentation has been prepared by Galan Lithium Limited ("Galan"). It contains forecasts and forward looking statements which are no guarantee of future performance and which involve certain risks. Actual results and future outcomes will in all likelihood differ from those outlined herein. The presentation should not be construed as an offer or invitation to subscribe for or purchase securities in Galan. Nor is it an inducement to make offer or an invitation with respect to said securities.

Forward-looking statements are statements that are not historical facts. Words such as "expect(s)", "feel(s)", "believe(s)", "will", "may", "anticipate(s)" and similar expressions are intended to identify forward-looking statements. These statements include, but are not limited to statements regarding future production, resources or reserves and exploration results. All of such statements are subject to certain risks and uncertainties, many of which are difficult to predict and generally beyond the control of the Company, that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties include, but are not limited to: (i) those relating to the interpretation of drill results, the geology, grade and continuity of deposits and conclusions of economic evaluations, (ii) risks relating to possible variations in reserves nor recovery rates and changes in project parameters as plans continue to be refined, (iii) the potential for delays in exploration or development activities or the completion of feasibility studies, (iv) risks related to commodity price and foreign exchange rate fluctuations, (v) risks related to failure to obtain adequate financing on a timely basis and on acceptable terms or delays in obtaining governmental approvals or in the completion of development or construction activities, and (vi) other risks and uncertainties related to the Company's prospects, properties and business strategy. Our audience is cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof, and we do not undertake any obligation to revise and disseminate forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of or non-occurrence of any events.

The Company has not fully completed feasibility studies on all its projects. Accordingly, there is no certainty that such projects will be economically successful. Resources that are not reserves do not have demonstrated economic viability.

The information contained herein that relates to exploration results and geology at Candelas and Hombre Muerto West is based on information compiled or reviewed by Dr Luke Milan, who has consulted to the Company. Dr Milan is a Member of the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and types of deposit under consideration and to the activity which they are undertaking to qualify as a Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Dr Milan consents to the inclusion of his name in the matters based on the information in the form and context in which it appears.

The information relating to the Exploration Results and integrity of the database was compiled by Mr Francisco Lopez (Geology). Mr Lopez is a full-time employee of Galan Lithium Limited and has been engaged by Galan as their Geology Manager. The integrity of the database and site inspection was done by Dr Michael Cunningham, GradDip, (Geostatistics) BSc honours (Geoscience), PhD, MAusIMM, MAIG, MGSA, FGSL. Dr Cunningham is a Principal Consultant and full-time employee of SRK Consulting (Australasia) Pty Ltd.

The information in this report that relates to the Mineral Resources estimation approach at Candelas and Hombre Muerto West was compiled by Dr Cunningham. He has sufficient experience relevant to the assessment and of this style of mineralisation to qualify as a Competent Person as defined by the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves – The JORC Code (2012)". Dr Cunningham consents to the inclusion in this report of the matters based on his 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 announcements, and that all material assumptions and technical parameters have not materially changed. The Company also confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.



# DISCLAIMER AND IMPORTANT INFORMATION

#### **Cautionary Statement**

The Preliminary Economic Assessment (**PEA**) is a preliminary technical and economic study (equivalent to a JORC Scoping Study) of the potential viability of the HMW Lithium Brine Project required to reach a decision to proceed with more definitive studies. It is based on preliminary/low-level technical and economic assessments that are not sufficient to support the estimation of Ore Reserves or provide certainty that the conclusions/results of the PEA will be realised. Further exploration and evaluation work and appropriate studies are required before Galan will be in a position to estimate any Ore Reserves or to provide any assurance of an economic development case.

The economic analysis results should be treated as preliminary in nature and caution should be exercised in their use as a basis for assessing project feasibility. The PEA was based on material assumptions including assumptions about the availability of funding. While Galan considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated by the PEA will be achieved.

To achieve the range of proposed feasibility studies and potential mine development outcomes indicated in the PEA, additional funding will be required. Investors should note that there is no certainty that Galan will be able to raise funding when needed. It is also possible that such funding may only be available on terms that may be dilutive to or otherwise affect the value of Galan's existing shares. It is also possible that Galan could pursue other 'value realisation' strategies such as a sale, partial sale or joint venture of the project. If it does, this could materially reduce Galan's proportionate ownership of the project.

All of the material included in the mining schedules used in the PEA are within Galan's Indicated Mineral Resources.

Process and engineering works for the PEA were developed to support capital and operating estimates (and following AUSIMM Guidelines for this study level), and given the preliminary and confidential nature of the plant information, the capital cost margin of error is ±30% on the 'factored cases' estimated figures and operating cost is ±30%. Key assumptions used in the PEA are outlined in the ASX announcement dated 21 December 2020. Galan has concluded it has a reasonable basis for providing the forward-looking statements in that announcement and this presentation.

The Mineral Resources information in this report is extracted from the ASX announcement entitled "Huge Increase in Hombre Muerto West (HMW) Indicated Resource – Now Over 2 Million Tonnes" dated 17 November 2020 available at <a href="https://www.galanlithium.com.au">www.galanlithium.com.au</a> and <a href="https://www.asx.com">www.asx.com</a>. Galan confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. Galan confirms that the form and context in which the Competent Person's findings are presented have not been materially modified.

Given the uncertainties involved, all figures, costs and estimates quoted are approximate values and within the margin of error range expressed in the relevant sections throughout the ASX announcement dated 21 December 2020 and this presentation. Investors should not make any investment decisions based solely on the results of the PEA.



### **GALAN LITHIUM LIMITED**

✓ WORLD CLASS LOCATION:

**✓** RIGHT PERSONNEL:

✓ ACCESS TO WATER:

**✓ GRADE IS KING:** 

**✓** BASE FOR PRODUCTION:

**✓** POSCO TRANSACTION:

**✓** SHARE REGISTER:

**✓ COMPELLING STUDY RESULTS:** 

## INVESTMENT FOUNDATIONS

proven high grade, low impurity settings

experienced Board & In-country team

low grade suitable for reverse osmosis

Hombre Muerto West (HMW) with 2.27Mt LCE @

946mg/l Li

total Inventory of 2.95Mt LCE @ 858mg/l Li

US\$280m (2019) for 2.54Mt LCE @ 732mg/l Li,

from Galaxy Resources, Hombre Muerto

includes Luxembourg green energy fund,

Thematica (2.7%). GLN management hold 24%

PEA estimate of 20ktpa for +40 years at HMW with first quartile operating cost (US\$3,518/t Li2CO3). Capex US\$338m + 30% contingency. Only 60% of the Mineral Resource utilised in PEA, room for optimisation



# A SIGNIFICANT INVESTMENT OPPORTUNITY – THE RIGHT PLACE



Hombre Muerto Salar located in the world-renowned Lithium Triangle in Argentina

 WORLD'S LARGEST reserves of lithium found in the Lithium Triangle

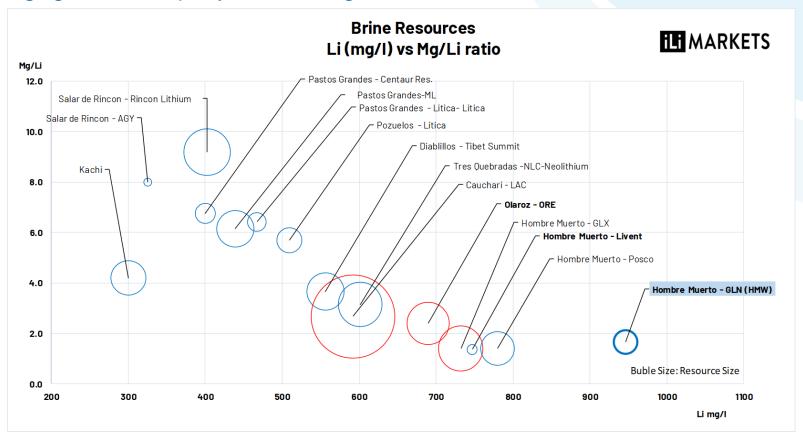
> 60 percent of the world's annual production of lithium comes from brines from the Atacama and Hombre Muerto salars

- The HIGHEST grade & LOWEST impurities in country
- GOOD NEIGHBOURHOOD with much recent corporate activity:
  - Livent Corp (ex-FMC, NYSE: LTHM):
     Recently listed on the New York Stock Exchange, Fenix
     operation at Hombre Muerto in production for >27 years
  - Galaxy Resources (ASX:GXY):
     Sourcing funding to develop the Sal de Vida deposit
  - POSCO:
     Purchased part of GXY's Sal de Vida project for US\$280m



# GALAN - PLACED AMONG THE BEST PROJECTS IN ARGENTINA

# High grade/Low impurity brines setting



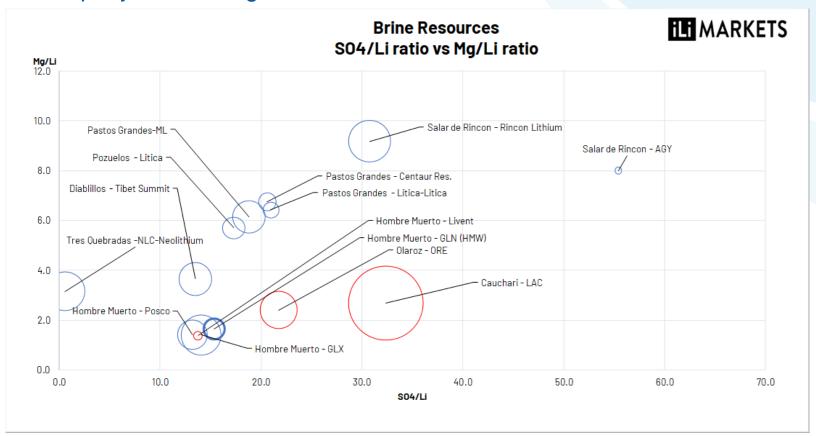
Source: iLi Markets, refer to Appendix 3 for published resources details

Nb: No resources figures publicly available for Livent's Fenix operation



# GALAN - PLACED AMONG THE BEST PROJECTS IN ARGENTINA

# Low impurity brines setting



Source: iLi Markets, refer to Appendix 3 published resources details

Nb: No resources figures publicly available for Livent's Fenix operation



# CORPORATE STRUCTURE

Capital Structure	
Shares	209,374,570
Unquoted Options	4,000,000 Options exercisable \$0.3438, 11 June 2021 150,000 Options exercisable \$0.20, 31 October 2022 2,000,000 Options exercisable \$0.25, 1 December 2021 12,295,157 Options exercisable \$0.25, 31 March 2022 10,150,000 Options exercisable \$0.21, 7 October 2023 2,000,000 Options exercisable \$0.20, 31 October 2023
Share Price	\$0.39
Cash end Dec'20	\$2.9 million (estimate)
Market Cap	~\$82 million

Shareholder Analysis	
Directors and Management	24%
Top 20 Shareholders	49%
<u>Top 5</u>	
- JP Vargas de la Vega	8.3%
- Havelock Mining (90% Ganfeng)	8.1%
- Terry Gardiner	3.1%
- JP Morgan	2.9%
- Clive Jones & Assoc	2.8%

Performance Shares							
Vendor Class B Upon the commencement of commercial production from a pilot plant	10,000,000						
MD Class B Upon financial close for a commercial scale lithium production facility	5,000,000						



## HIGHLY EXPERIENCED BOARD



Richard Homsany Non-executive Chairman

An experienced corporate lawyer who has extensive board and operational experience in the resources and energy sectors. Richard is Executive Chairman of ASX listed Toro Energy Limited (ASX:TOE), **Executive Vice** President, Australia of TSX listed Meg Uranium Ltd (TSX:MGA) and the principal of Cardinals Lawyers and Consultants, a boutique corporate and energy & resources law firm.



Juan Pablo ('JP') Vargas de la Vega Managing Director

A Chilean/Australian mineral industry professional with 15 years' broad experience in ASX listed mining companies, stockbroking and private equity firms. JP has been a specialist lithium analyst in Australia, has also operated a private copper business in Chile and has worked for BHP. Rio Tinto and Codelco. Founder of Blue Sky Lithium, vendor of the Argentinian assets.



**Daniel Jimenez** Non-executive Director

A civil industrial engineer Mr Jimenez has worked for world leader in the lithium industry Sociedad Química y Minera de Chile (NYSE:SQM, Santiago Stock Exchange: SQM-A, SQM-B) for 28 years based in Santiago, Chile. His last position was as Vice President of Sales of Lithium. Iodine and Industrial Chemicals where he formulated the commercial strategy and marketing of SQM's industrial products and was responsible for over US\$900 million worth of estimated sales in 2018.



Christopher Chalwell Non-executive Director

Previously COO SKILLED Workforce Services
Western Mining Region.
Has been involved in the gas to coal conversion of the Mica Creek Power station in Mt Isa and the Pasminco Century Mine in north Queensland.
Extensive experience with feasibility studies, commercial reviews for project funding, contract appraisal and award.



**Terry Gardiner**Non-executive
Director

+20 years' experience in capital markets, stockbroking & derivatives trading and prior to that had many years trading in equities & derivatives for his family accounts.

Currently a Director of stockbroking firm

Barclay Wells Limited and a Non-executive Director of Cazaly
Resources Ltd (ASX:CAZ).



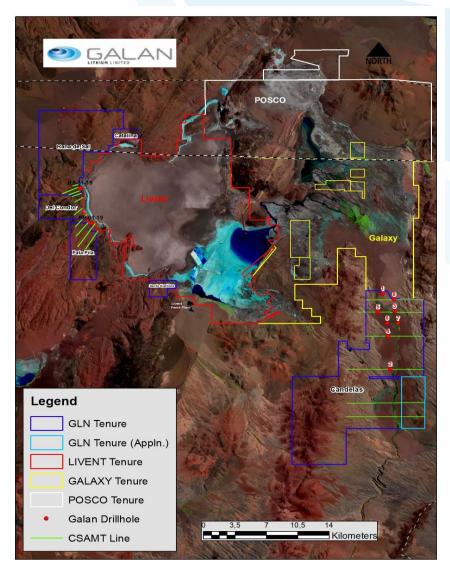
Raymond Liu Non-executive Director

A mining executive with 13 years experience in the resources sector. Has a results-oriented track record developed in the areas of deal origination, project evaluation, negotiation, due diligence and capital raising. Mr Liu is founding Managing Partner of Havelock Mining investment, a Hong Kong investment company and has been involved with numerous investments in ASX listed companies. Currently a director of Okapi Resources Ltd (ASX:OKR) and Heritage Minerals Pty Ltd.



# HOMBRE MUERTO: TIER 1 LOCATION WORLDWIDE FOR LI BRINES

- Second best salar in the world for production of lithium from brines (after the Atacama, Fenix in operation since 1992)
- Total of 4,700m drilled across Candelas and HMW
- Galan currently has a combined total Indicated Resource of 2.95Mt LCE @ 858mg/l Li
- Significant exploration upside remains at unexplored HMW concessions
- · Rich setting for lithium brine development
  - · ground waters sourcing volcanic rocks
  - hydrothermal activity
  - · closed basin
  - · arid climate
  - · faulted environment
- · Best grades & lowest impurities in Argentina
- Infrastructure including sealed roads, processing water, power already in place



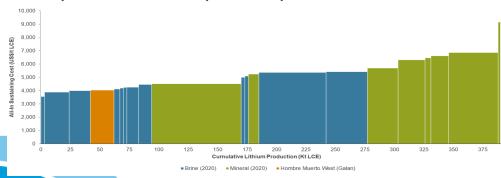


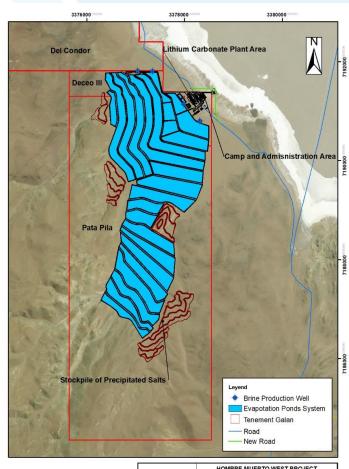
# HMW STUDY - COMPELLING SCOPING STUDY/PEA RESULTS

Study conducted by Worley (Chile) and several other reputable consultants (refer ASX announcement dated 21 December 2020 - www.galanlithium.com.au/announcements).

#### Highlights:

- √ The study assumed a low tech, low energy and water consumption for a low risk processing solution
- ✓ Significant long life project yielding +40 years with only 60% of total current resources used
- ✓ Production rate of 20ktpa targeting battery grade lithium carbonate
- √ HMW setting of high grade and low impurities = low Opex of US\$3,518/t LCE (refer to cost curve below)
- √ Competitive Capex of US\$338m + 30% contingency (US\$101m)
- ✓ Project footprint fits within Galan's land holding with no easement required (see project layout). Acquisition of Del Condor, post PEA, adds potential for further Opex and Capex reductions









## HMW STUDY – WHY GALAN? COMPETITIVE OPEX & CAPEX

#### Hombre Muerto West compares positively against ASX listed projects for Opex and Capex in the production of lithium carbonate battery grade

- HMW has strong project fundamentals
- Galan focused on processing lithium carbonate with a simple proven solution
- Importantly HMW has 100% ownership with no JV or royalty payments to any non government third party
- For reference we have included the largest lithium brine development in Argentina (LAC) to show that HMW remains strongly competitive against a larger project with scale economies

#### Comparative table of new developing lithium brine projects

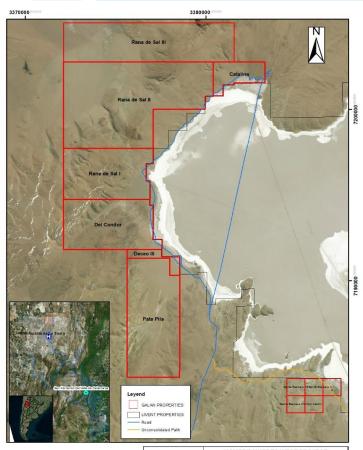
Project (Company)	Current Ownership %	Opex US\$/t LCE	Capex US\$ M	Capex w/o contingency US\$ M	Production (LCE tpa)	Capital Intensity (US\$ /LCE tpa)	Capital Intensity w/o Contingency (US\$ /LCE tpa)	
Hombre Muerto West (HMW, Galan)	100	3,518	439	338	20,000	21,950	16,950	ASX Ann, 21 Dec 2020
Olaroz-Cauchari (LAC)	100	3,576	565	526	40,000	14,125	13,150	Updated FS August 2019
Salar Blanco (Lithium Power International)	51	3,772	563	501	20,000	28,150	25,050	FS, 17 Jan 2019
Kachi (Lake Resources)	100	4,178	544	454	25,000	21,760	18,160	ASX Ann., 30 Apr 2020
Rincon (Argosy Minerals)	77.5	4,645	215	183	10,000	21,520	18,320	ASX Ann, 28 Nov 2018



# HMW STUDY-POTENTIAL IMPROVEMENTS

The Study has proven that HMW is a very cost competitive project. The team has identified that further combined improvements would be investigated in the next study phase:

- Potential production rate increase: Only 60% of the HMW Indicated Resource was assumed for the Study meaning a high possibility of an increase in production beyond 20ktpa LCE.
- Potential space to add more ponds: The Study was performed at a
  time where the Del Condor concession was not part of HMW tenement
  holding. This was completed in November 2020 which means Galan now
  has potential to extend and add ponds to the north. To the west, Rana
  de Sal II and III also have excess ground to add more ponds if
  necessary.
- **Potential Capex reduction**: Given the access to the north, the ponds could be located in a lower area reducing the earthworks requirements.
- **Potential Opex reduction**: Through reduction in the consumption of reagents and an increase recoveries. Also, if production is increased the project could benefit from economies of scale further reducing Opex.
- Exploration upside: drill hole at Rana de Sal remains open at depth. Santa Barbara and Catalina have not yet being drilled.









# HMW STUDY – CURRENT LABORATORY PROGRESS

- The first trial of evaporation and carbonatisation has been completed. The aim was to calibrate the brine evaporation model used for the Scoping Study/PEA using HMW brine but not to necessarily confirm or otherwise the optimised and modelled brine quality.
- Results showed good correlation between the trial and the evaporation model and also delivered a lithium carbonate product within the battery grade range.
- A second batch of 17,000 litres of brine was sent to the laboratory in Chile in November 2020 to further confirm the initial results, to complement the study and to provide further process robustness.
- The second trial of evaporation testing is progressing well with the Galan team testing new optimisation alternatives.
- The test results are now expected during Q1 2021 some delays have been experienced due to COVID-19 lockdowns in the city of Antofagasta where the tests are being performed. Nevertheless, the team in Chile has taken significant steps to continue to advance the trials to avoid delays.

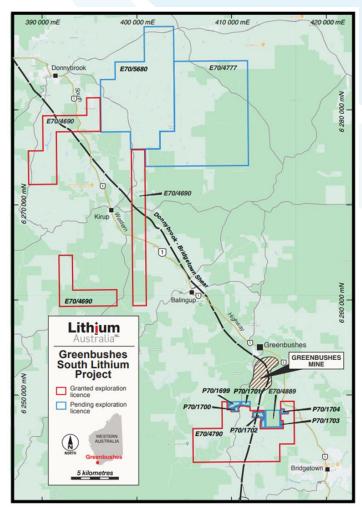


Concentrated brine and lithium carbonate from HMW



# GREENBUSHES SOUTH JV PROSPECTIVE GROUND FOR LITHIUM EXPLORATION IN AUSTRALA

- Galan to acquire 80% of the Greenbushes South Lithium Project from Lithium Australia NL (ASX: LIT)(refer ASX announcement dated 14 January 2021 www.galanlithium.com.au/announcements).
- The Project is located 3 kms south of the world-class Greenbushes Lithium Mine which is owned and managed by Talison Lithium Pty Ltd.
- Galan already holds a 100% interest in an Exploration Licence application (E70/4629) covering a total area of approximately 43 km². It is approximately 15 kms to the south of the Greenbushes Mine.
- The acquisition secures and consolidates a significant package of exploration ground of 396 km<sup>2</sup>.
- Talison's project is known as the one of the world's largest, highest grade, hard rock spodumene deposits.
- The area remains under explored. The initial focus will be on tenure that covers a southern strike projection of the geological structure that hosts Greenbushes.
- During 2021 Galan expects to perform further desktop studies on the JV ground to follow up with mapping, geochemical sampling campaign and geophysics where needed.







# ACHIEVEMENTS AND INDICATIVE NEXT STEPS

Tasks		CY2	2018	3		CY 2	2019	)	(	CY 2	202	0	(	CY 2	202	1
CANDELAS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	<b>Q1</b>	Q2	Q3	Q4
Geophysics & mapping																
Drilling Permits																
Drilling																
JORC Resource																
HMW																
Drilling Permits																
Drilling																
JORC Resource / Update																
STUDIES																
PEA/Scoping/PFS																
Pilot Plant Permits																
Pilot Plant / Feasibility Study (Q2 2022)																



## ARGENTINA – A PRO-MINING & INVESTMENT DESTINATION

- Recent president-elect of Argentina (Mr. Fernandez) has indicated that he is committed to the mining sector with policies to remain in line with the previous administration.
- The province of Catamarca, Argentina has a competitive mining policy and is open to foreign investment – particularly highly supportive of the lithium sector and to foreign junior explorers.
- FMC listed their lithium business on the NYSE as Livent Corporation (NYSE: LTHM) – FMC have been successfully producing lithium carbonate and lithium hydroxide in Argentina for +25 years at Hombre Muerto
- Other major lithium project investments in-country continue
  - Orocobre purchase of Advantage Lithium (Feb 2020)
  - POSCO purchase of SDV North (US\$280M)
  - Ganfeng purchases from 50% to 51% of Cauchari-Olaroz (US\$16M+funding up to US\$400m, Feb 2020)

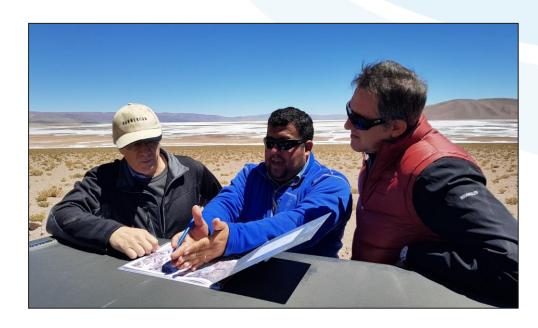


From left to right and attending the 2019 IMARC conference in Melbourne: Mr. Raul Jalil (newly elected Governor of Catamarca), Ms Lucia Corpacci (current Governor of Catamarca), GLN's Managing Director Mr. JP Vargas de la Vega and the Mines Minister of Catamarca Mr. Rodolfo Micone



# GALAN LITHIUM LIMITED INVESTMENT FOUNDATIONS

- Rapid transition from explorer to developer
- ✓ World class location
- ✓ Simple, proven chemistry at adjacent operations
- Proven high grade, low impurity setting
- Company's geological model proven
- Highly experienced Board and local in-country team
- ✓ Large JORC Resource of 2.95Mt LCE @ 858mg/l Li with exploration upside
- ✓ Scoping & PEA completed in Dec 2020
- Project potential yet to be fully appreciated
- New prospective lithium project in Australia in the vicinity of Greenbushes mine







# FAST TRACKING TO LITHIUM CARBONATE PRODUCTION IN SOUTH AMERICA'S LITHIUM TRIANGLE



Level 3, 30 Richardson Street, West Perth, WA 6005 Ph. +61 8 9322 6283 Fax. +61 8 9322 6398

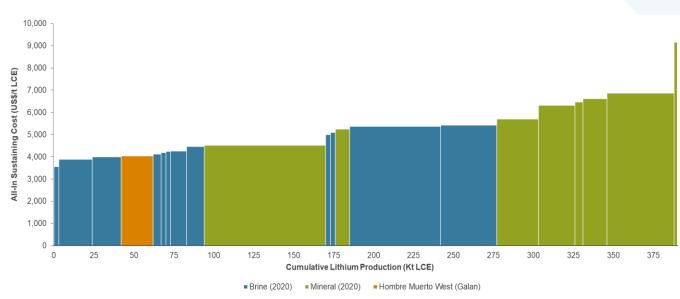
Email: jp@galanlithium.com.au

PO Box 396, West Perth, WA, 6872

www.galanlithium.com.au

ASX:GLN FSX:9CH

# APPENDIX 1 MARKET COST CURVE – LITHIUM SUPPY FUNDAMENTALS



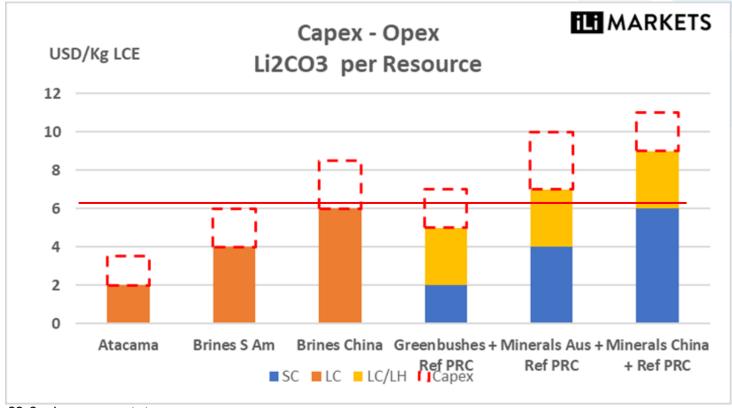
2020 Lithium Production Cost Curve (source: Roskill - Lithium Cost Model Service)

#### **Lithium Supply**

- Before the current boom only one Australian hard rock lithium producer (Greenbushes) existed, the rest were brine producers.
- South American brine projects; lower (and flat) operating costs, historically operating in a competitive price environment of US\$5,000-6,000/t LCE.
- Current LCE price ~US\$7,000/t LCE are boom prices for lithium brine producers, not so for hard rock lithium producers.
- In time, lithium supply will mature, with expansion of South American brine reverting back to a larger production and greater market participation.



# APPENDIX 2 SOUTH AMERICAN BRINES – SIMPLIFIED MODEL Strong Competitive Advantage to Produce Lithium Carbonate at ~USD6/kg LCE (Capex included)

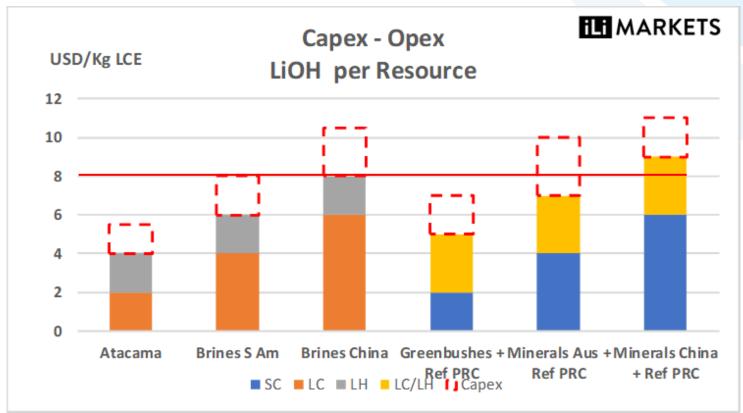


SC: Spodumene concentrate LC :lithium carbonate LH: Lithium hydroxide Source: iLi Markets



# ...and, REMAINS COMPETITIVE

# Even when producing **Lithium Hydroxide** at ~USD8/kg LCE (*Capex included*)



SC: Spodumene concentrate LC :lithium carbonate LH: Lithium hydroxide Source: iLi Markets



# APPENDIX 3 COMPARATIVE COMPANY BRINE RESOURCES TABLE

			Posource								
Salt Lake	Company	Code	Resource								
			Li	Measured	Indicated	Inferred	Total				
			ml/L	k MT LCE	k MT LCE	k MT LCE	k MT LCE				
Salar de Rincon	Rincon Lithium	JORC	403	36	000	4,300	7,900				
Salar de Rincon	Argosy	JORC	325		245		245				
Pozuelos y Pastos Grandes	Litica Pluspetrol LSC	NI 43-101	509	958	719	631	2,308				
Pastos Grandes	Millennial Lithium	NI 43-101	452	1,277	854	878	3,009				
Diablillos	Tibet Summit	NI 43-101	556			4,950	4,950				
Hombre Muerto	Galaxy	JORC	732	3,005	2,665	1,562	7,232				
Hombre Muerto	POSCO	JORC	780	1,580	1,580	940	4,100				
Hombre Muerto	Livent	n/a	747	390			390				
Hombre Muerto (Candelas)	Galan Lithium	JORC	672		685		685				
Hombre Muerto (HMW)	Galan Lithium	JORC	946		2,267		2,267				
Total Galan	Galan Lithium	JORC	858		2,952		2,952				
Cauchari - LAC	LAC	NI 43-101	592	3,555	16,298	4,723	24,576				
Olaroz	Orocobre	JORC	690	64	.00		6,400				
Tres Quebradas	Neolithium	NI 43-101	601	569	3,436	2,917	6,922				
Source: iLi Markets											

