



### Disclaimer

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#### **Competent Persons Statement**

- The information in this report that relates to Exploration Targets and Mineral Resources is based on the information compiled by Mr Patrick Adams, of Cube Consulting Pty Ltd (Perth). Mr Adams has sufficient relevant professional experience with open pit and underground mining, exploration and development of mineral deposits similar to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of JORC Code He has visited the project area and observed drilling, logging and sampling techniques used by Infinity Lithium in collection of data used in the preparation of this report. Mr Adams is an employee of Cube Consulting Pty Ltd and consents to be named in this release and the report as it is presented.
- The information in this report that relates to Exploration Results is based on the information compiled or reviewed by Mr Adrian Byass, B.Sc Hons (Geol), B.Econ, FSEG, MAIG and an employee of Infinity Lithium. Mr Byass has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the JORC Code. Mr Byass consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.



### INTRODUCTION



**Electric mobility** From Wait and See mode to Action mode



#### **Europe**

To Become #2 Largest EV Maker In The World



#### **Batteries**

Alliances & Long term Supply

- Strong Exposure to Asia



#### **EU & Governments**

Start To Intervene & Protect The Region



#### **Europe**

Could Become The #2 Largest Market For Battery Metals



Co, Ni, Li
Europe Is A Minor
Battery Raw
Materials Producer

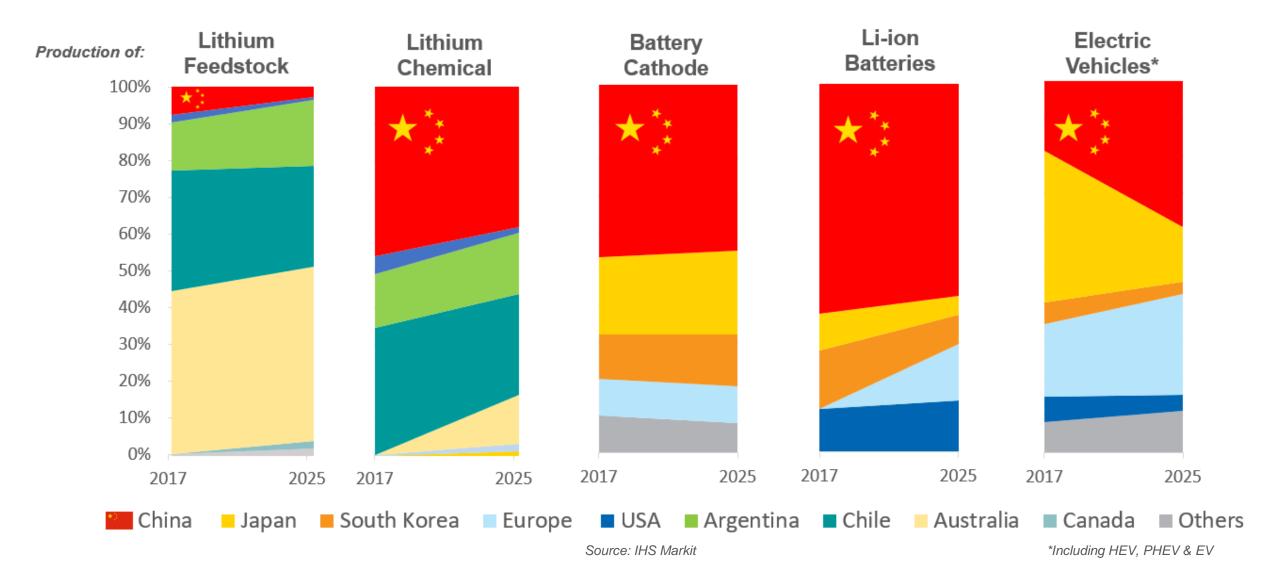


**Large** Domestic Resources & Projects To Support The Industry





## Who Really Controls the Lithium-ion Batteries Supply Chain?

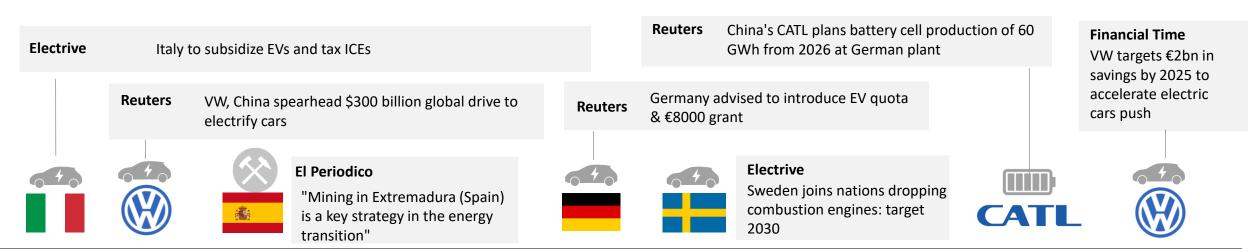


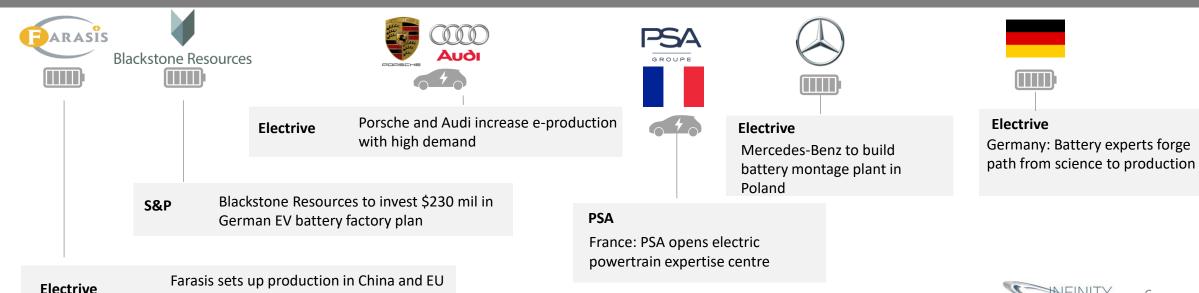




## January News The European Li-ion Battery Supply Chain

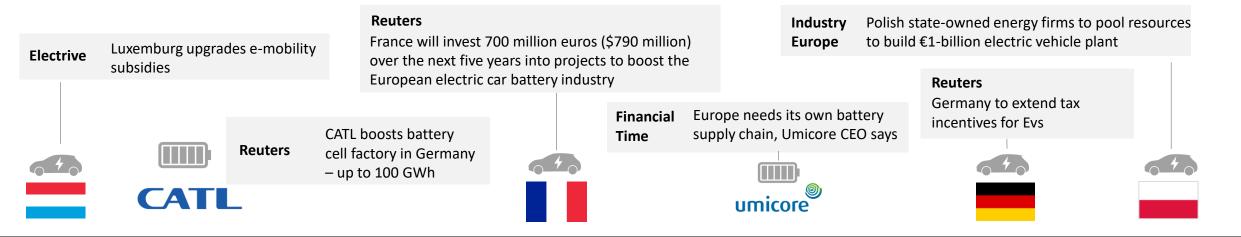






## February News The European Li-ion Battery Supply Chain





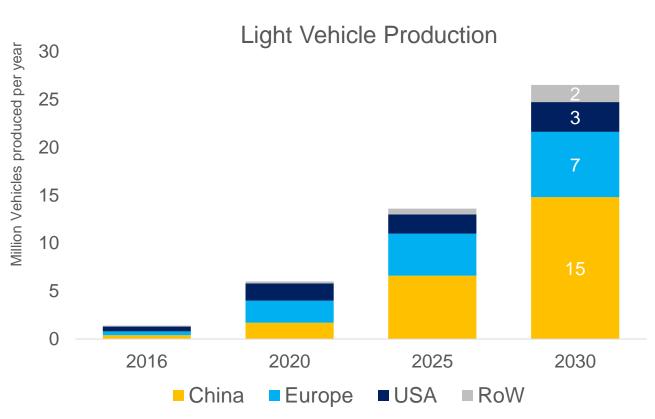


**Infinity Lithium Corporation** 

€2 billion







Source: McKinsey Sustainable Mobility Initiative

## No matter which forecast you are looking at, all predict tremendous growth in EVs

**McKinsey**: EV production will reach more than 26 million globally by 2030. China is expected to add around 15 million EVs by year 2030 (56% market share), followed by Europe (26% market share) and the US (12% market share)

**BNEF**: EVs sales to surge to 30 million by 2030. China leads with sales reaching almost 39% of the global market in 2030. China leads on adoption rates, with EVs accounting for 19% of all passenger vehicle sales in China in 2025. Europe is close behind at 14%, followed by the U.S. at 11%

**Platts**: by 2025, the EU will actually have a deeper penetration rate for EVs (30%) than in China (15%) and in the US (8%).



## E-Mobility: Electric Cars Are Not The Entire Story



- A large part of the mobility market is unaccounted for in lithium-ion battery forecast
- The road, the sea and the sky will move to electric too with many companies working towards this goal, from the small start
  up to the large corporation
- Those applications will lead to further growth for demand and additional pressure on battery raw materials in the future



Infinity Lithium Corporation



## A Number of New Lithium-ion Factories Planned in Europe



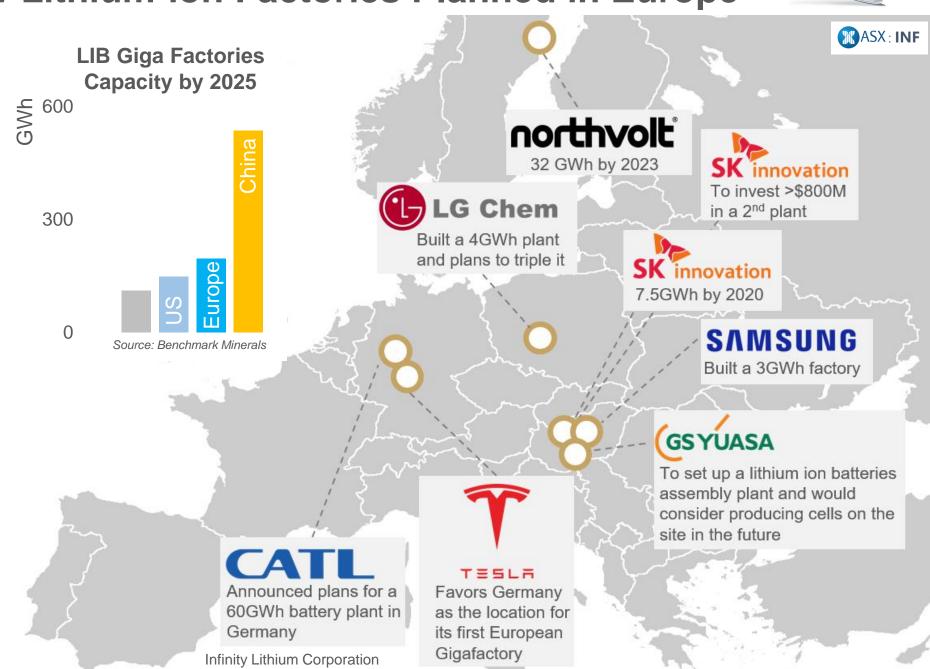
And...

is looking at launching battery production in Europe

金沙江资本 GSR Capital signed a deal to build a factory that would launch production in 2023

site for a large-scale lithium-ion cell, plant in the EU

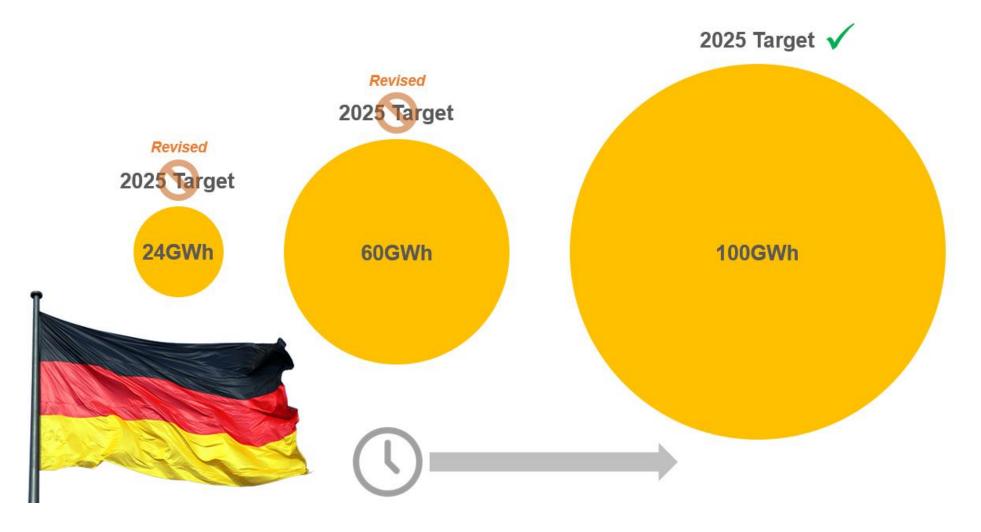
States to invest \$230M in German EV battery factory plan



## **Battery Makers' Plans Reflect Demand Surge**



### **CATL Lithium-ion Battery Manufacturing Capacity Targets In Europe**





# New Cathode Investments – One More Step Towards Back Integration



#### **Cathode Investments in Europe**





**Umicore** is planning to build a cathode plant in Poland. The first phase of this investment is included in the € 660 million programme announced earlier this year. Umicore is due to start deliveries in late 2020.





BASF and Norilsk Nickel enter exclusive negotiations to cooperate on raw material supply for battery materials production in Europe. BASF intends to invest up to €400 million in a first step to build production plants for cathode materials in Europe.





**Johnson Matthey** expects to start production in 2021-22 in Europe of a battery material it has developed with improved performance and reduced cobalt content to contain costs.



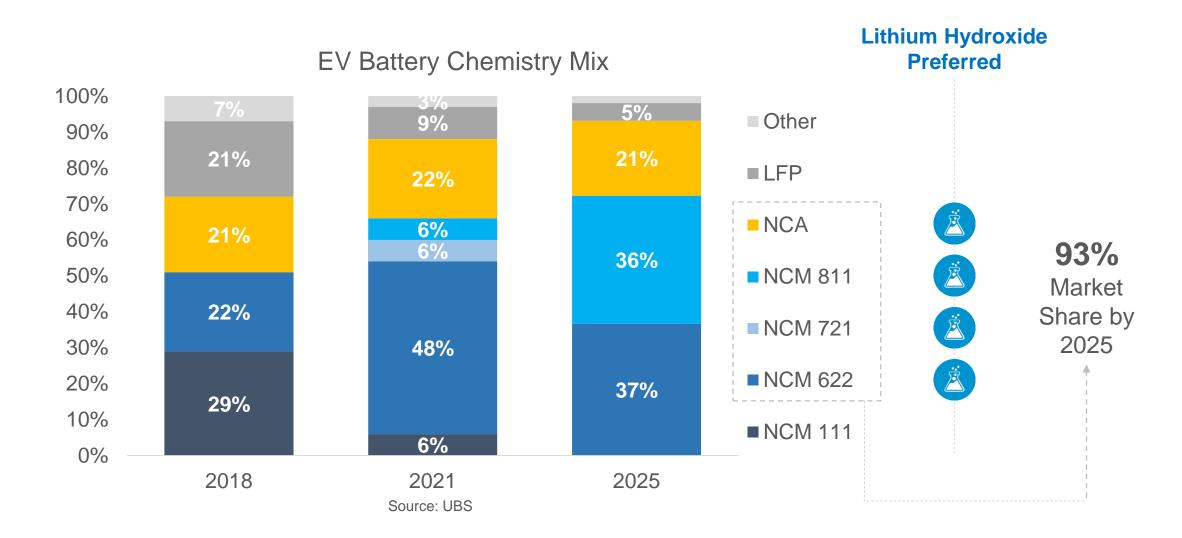


**Northvolt** is also planning to build its cathodes in-house after they start their battery factory in Sweden.





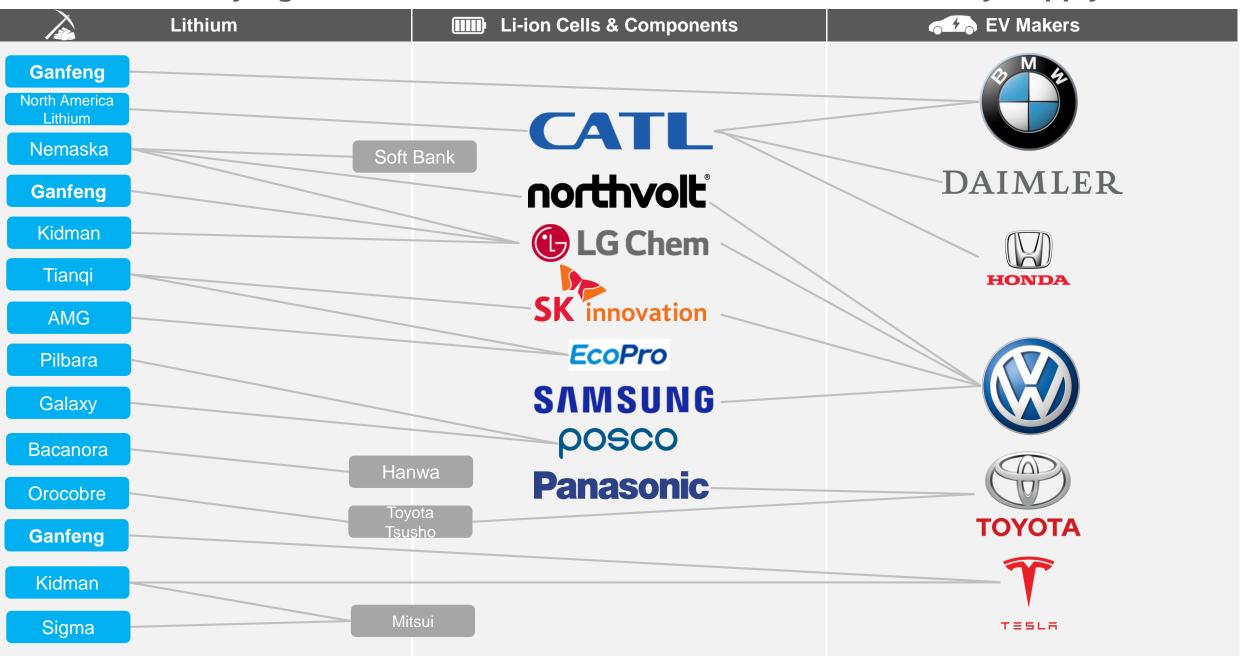
## Cathode Evolution: Nickel-rich NMC to Dominate the Industry







## 2018-2019 Key Agreements & Investments in the Lithium-ion Battery Supply Chain



## **Multiple Lithium Offtake Deals – Dominated by Asia**



Suppl	iers			Off-takers			<b>∭</b> &	<b>-&gt;</b> (\$)	Estimated Max. offtake volume per year
AUS 🏋	MIN/Ganf/Neo - Mount Marion	Producing	Spod.	Ganfeng	CHN	*)			
AUS 🎇	Tawana/AMAL – Bald Hill	Producing	Spod.	Burwill Commodity	HK	蟒			
	Pilbara Minerals - Pilgangoora	Producing	Spod.	General Lithium	CHN	*>			
			Spod.	Ganfeng	CHN	*3			
AUS 🎇			Spod.	Great Wall Motors	CHN	*)		•	
			DSO	Atlas Iron/SinoSteel	CHN	*)			
			DSO	Tinci Mining	CHN	*>			
			Spod.	Posco	SK				
AUS <mark>**</mark>	Altura Mining - Pilgangoora	Producing	Spod.	Lionergy Limited	CHN	*3			
			Spod.	Ganfeng	CHN	*3			
			Spod.	OptimumNano	CHN	*3			
AUS 🎇	Kidman Resources - Kwinana	Planning	LiOH	Tesla	USA				
			LiOH	Mitsui	JPN	•			
			LiOH	LG Chem	SK				
ALIC III	Tianqi Lithium - Kwinana	Construction	LiOH	SK Innovation	SK				
103			LIOIT	Ecopro	SK				
AUS 🎇	Core Exploration	Feasibility	DSO	Yahua	CHN	*)			n.a
RG	Lithium Americas – Cau/Olaroz		Li2CO3	Ganfeng	CHN	*>			
			Li2CO3	Bangchak Petroleum	THA				
RG 🚢	NRG Metals - Hombre Muerto	Feasibility	Li2CO3	Chemphys	CHN	*3			n.a
CAN 🙌	Nemaska - Whabouchi	Construction	LiChem	Johnson Matthey	UK	> <			
			Li2CO3	FMC	USA				
			LiChem	Softbank	JPN	•			
			LiOH	Northvolt	SWE	+			
			LiOH	LG Chem	SK				
CAN 🝁	Sayona - Authier	Feasibility	Spod.	Huan Changuan Lico	CHN	*3			
	AMG - Mibra	Producing	LiChem	Ecopro	SK				n.a
<b>(</b>	Sigma – Grota do Cirilo	Feasibility	Spod.	Mitsui	JPN	•			n.a
MEX <b>■</b> ∗■	Bacanora Minerals – Sonora	Feasibility	Li2CO3	Nextview New Energy Lion	CHN	*)			
			Li2CO3	Hanwa Co	JPN	•			
CHN 🏪	Ganfeng	Producing	LiChem	LG Chem	SK				
CHN 🏪	Ganfeng	Producing	LiOH	Tesla	US			•	n.a
CHN MIN	Ganfeng	Producing	LiChem	BMW	DEU				n.a
MLI	Birimian		Spod.	General Lithium	CHN	*)			
ZWE	Prospect Resources - Arcadia		Rock		CHN	*>			n.a
MLI	Kodal Minerals - Bougouni	F " "	Rock	Suay Chin	SGP	C)			n.a
		Feasibility		•	CLIN	* D			n.a
DRC	AVZ Minerals - Manono		Rock	Guangzhou Tinci	CHN				11.0



39 offtake deals 82% from Asia 49% Chinese 7% Europe

> 51% Feedstock Supply Deal



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## **European Battery Alliance Gathering Momentum**





 Infinity Lithium engaged with key European stakeholders at EBA250 with raw materials and chemical processing capabilities remaining a high priority for the European Commission, European Investment Bank, and major European automobile OEMs.



• Primary and secondary raw materials remain a priority for the European Commission to address the gap in the existing value chain with no current capacity to refine battery chemicals.



- Commitment to provide capital to facilitate growth EV market and European value chain participants.
- Identified the significant gap in the market for battery chemicals and reinforced the EIB's specific focus on "raw materials and refining facilities".
- The ability to ethically source raw materials and consideration of CO2 emissions remains a priority for the European market.



 Calling for the reduced dependency of Europe on Chinese LIB battery producers and in particular the control of battery chemicals and cell production.

## Germany Leading European Efforts For Mass Electrification





"Germany has set aside 1 billion euros to support battery cell production in order to **reduce the dependence** of German carmakers on Asian battery suppliers and **protect** German jobs"





**Angela Merkel**German Chancellor

"I think we should, within the framework of our own strategic abilities, work with other European countries on our **own battery cell production**"





Peter Altmaier German Economy Minister

"The goal is to cover around **30 percent of global demand** for battery cells from German and European production by 2030"



"Germany should become a leading location for battery cell production. A large part of production costs is linked to **raw materials**"



"German industry is therefore well advised to **secure its needs for lithium** early in order to avoid falling behind and slipping into dependency,"







# Today, Europe is Poorly Integrated in the Li-ion battery Supply Chain



Upstream

Middle stream

Downstream

#### **Battery Metals Supply**

#### **Battery Manufacturing Chain**

#### **Electric Vehicles**

#### Lithium



~100% from China, Australia, South America & US

#### Cobalt



Majority from the Democratic Republic of Congo & China

#### **Nickel Supply**



EU marginal producer Majority from Indonesia, Philippines, Canada, Russia, etc.

#### Cathodes



Upcoming investments but today almost >90% in Asia

## Other Components



## Lithium-ion Battery



Europe remains a small centre for lithium-ion battery production

Battery plants are owned by Asian companies

Most battery cells are imported from Asia

## **EV** Production



Europe set to become the #2 largest EV maker in the world

Strong governments incentives in place

Strong adoption rate expected in the coming years

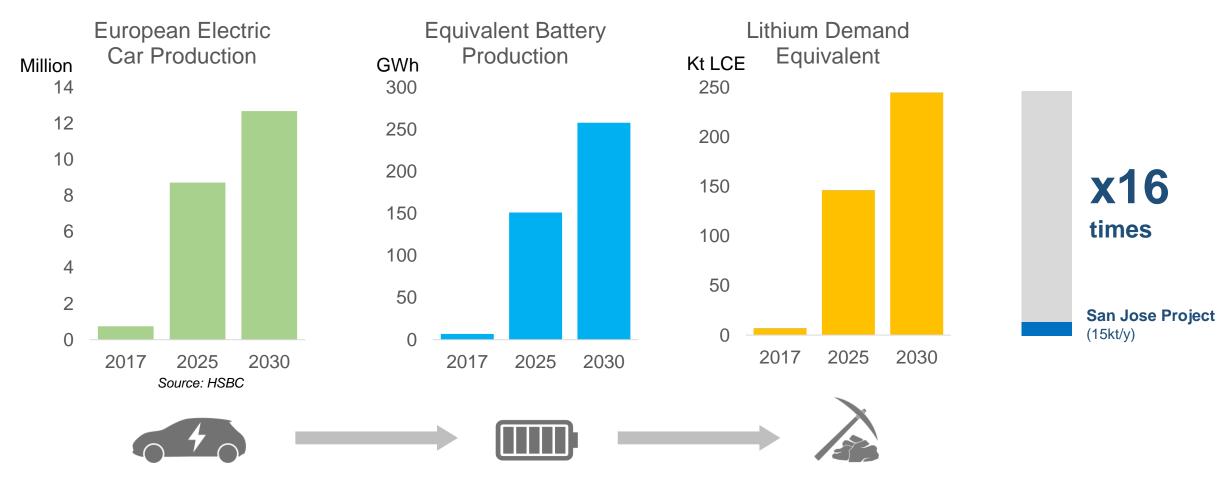


## A Fully Integrated European Lithium-ion Battery Supply Chain





The EU is pushing to have a fully integrated domestic supply chain, from producing EVs all the way back to producing raw materials. What would it mean for domestic lithium demand?





## Many Paths to Develop an Integrated European Supply Chain



Lithium-ion Battery Supply Chain













**Today** 

Example 1













Example 2













**Tomorrow** 

Example of multi-level collaboration





Co-owned / co-developed conversion plant in the EU



Collaboration with a cathode maker





Cell and Battery pack manufactured in Europe by a Japanese producer







Battery fitted in a European EV



#### In the Future











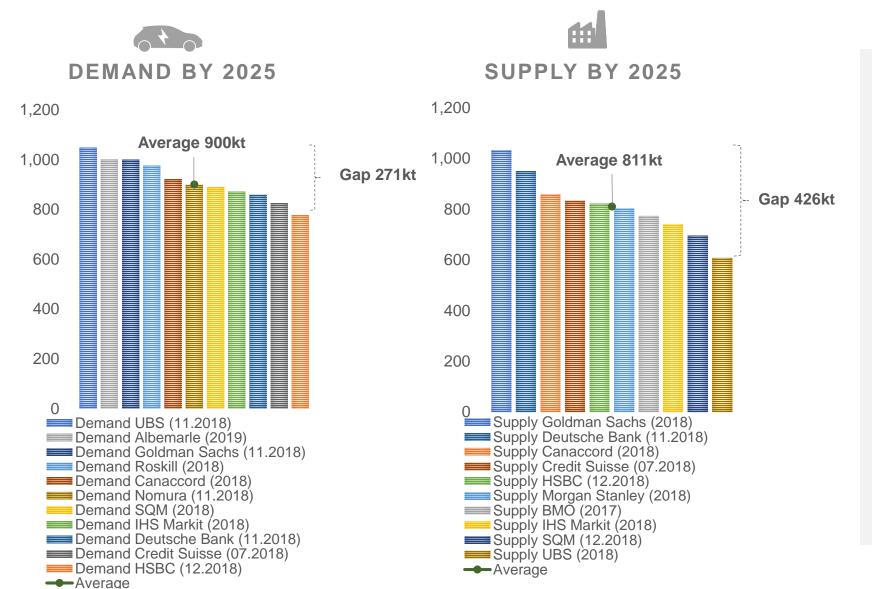






## **Supply/Demand Forecasts Vary Greatly**





#### A difficult exercise

- Two clear camps: Oversupply and tight market
- On average by 2025 the market is in deficit
- Very large gaps from one estimate to another
- Demand forecast are being revised monthly with more optimism on the EV & ESS side
- Supply is very difficult to forecast from on year to another



## Supply: A Clear Lack of Clarity





2018: Several Banks call for an oversupplied lithium market on the back of new large volume of new supply coming on stream in a very short amount of time



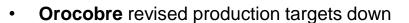
#### 2018:

**SQM** delayed expansion in Chile and produces less lithium in 2018 vs 2017



Albemarle: Chile rejects hike in lithium quota











Overall LCE production in **South America** only increased slightly



**Chinese** spodumene converters underperform, net chemical production from spodumene limited – not a wave of new supply







Most DSO exported from Australia to **China** has not been converted, small volume of converted product then failed to be approved by customers



## Supply: A Clear Lack of Clarity

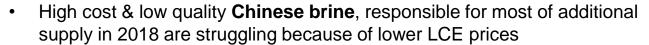




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#### 2 months in 2019:



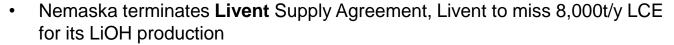






- Rainfalls in Argentina & Chile : Albemarle, Orocobre and Livent production impacted
- Fall in spodumene prices:
  - Some Australian producers at risk
  - North America Lithium halts spodumene production in Canada











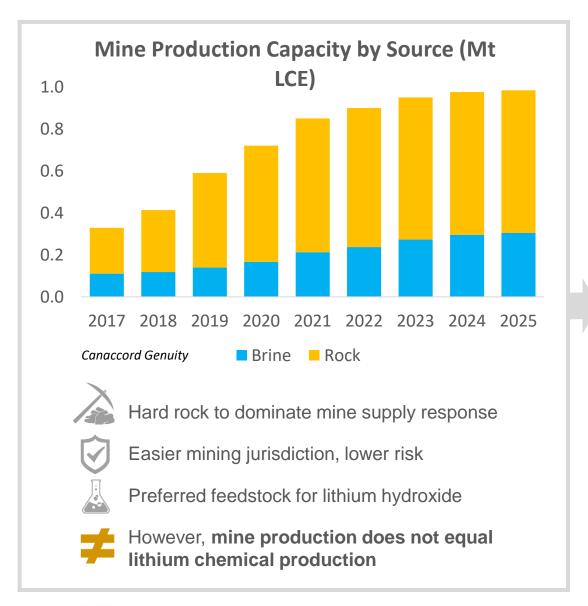


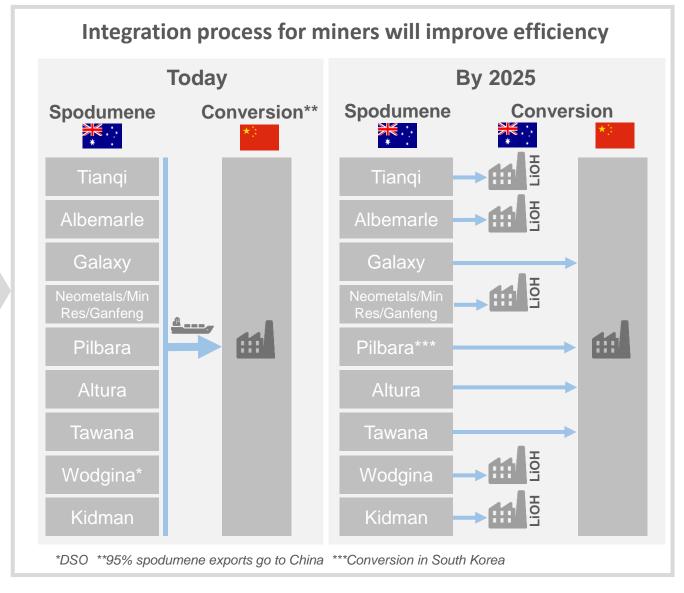
28



## Integration: The Way Forward for Hard Rock Production











## Many Paths to Market but Integration & Proximity is Key



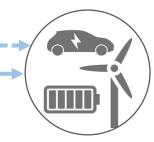
#### 1- South America to Asia

- Regulators controlling sales & Production quotas
   Water rights
   High political and
- Low Li2CO3 production cost
- But additional conversion costs for LiOH \$\$\$





Additional conversion & freight costs \$\$\$







Chile Arg.



- Weather dependant
- High re-agents & logistics costs \$\$\$

economicall risk

• Living organism, etc.



- Up to 40% royalties in Chile \$\$\$
- Increase cost of production by ~50%\*
- New export taxes in Argentina \$\$\$



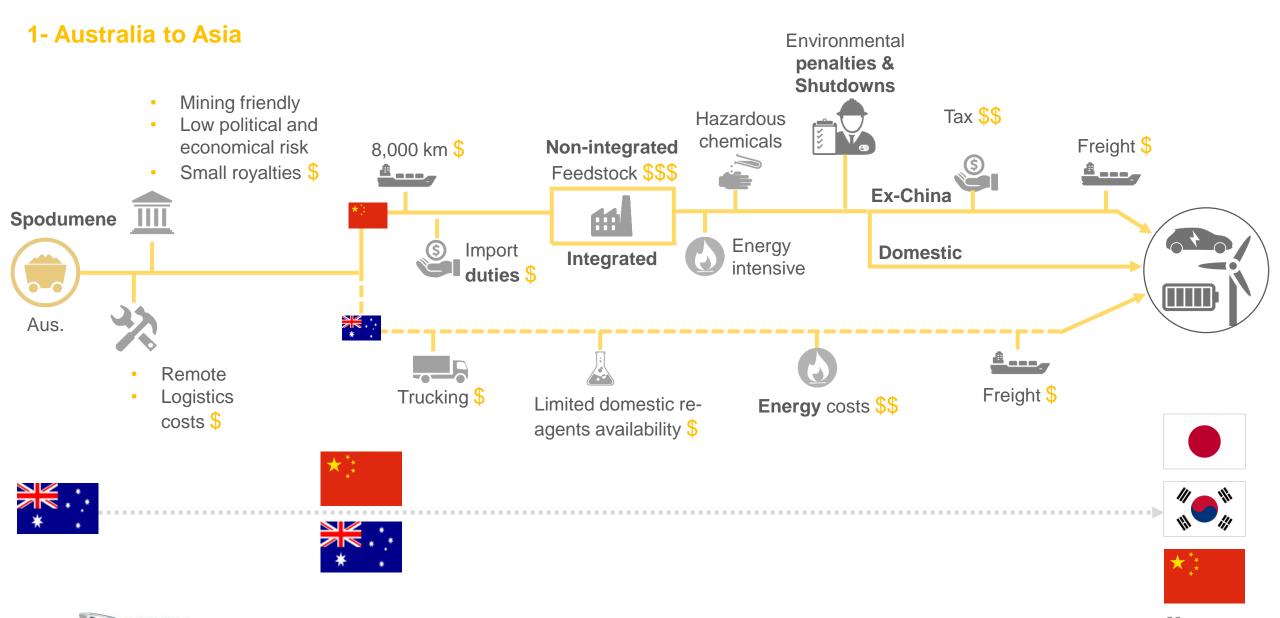






## Many Paths to Market but Integration & Proximity is Key

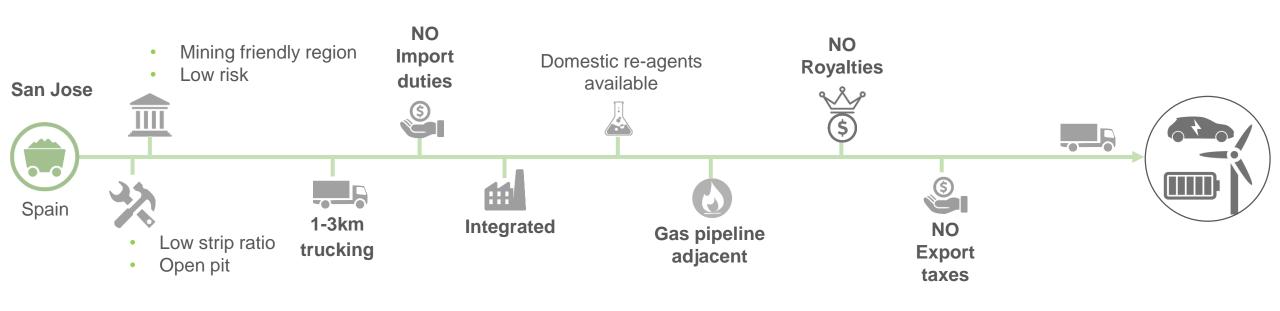




## Many Paths to Market but Integration & Proximity is Key



#### 3 – Europe to Europe









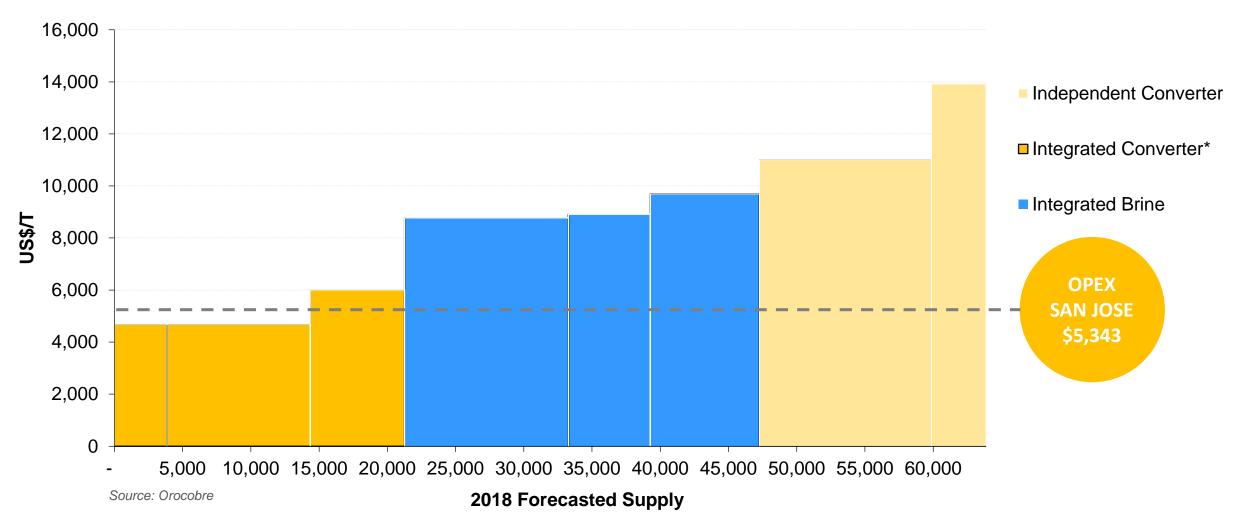




MASX: INF

## Li Hydroxide – Integrated Mineral Feedstock to Dominate

#### **Hydroxide Cost Curve, Post-Taxes & Royalties**

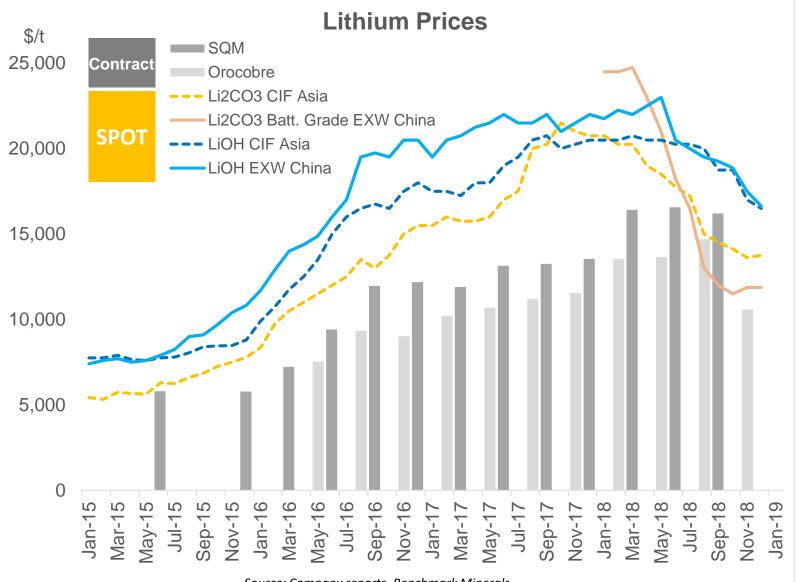






## **Lithium Prices: A Lack of Clarity**







#### Chinese spot prices declined in 2018 but:

- Spot prices do not represent the market
- Most lithium volumes are medium and long term contracts and Chinese spot volume is a fraction of the global market

#### Contract prices increased in 2018 but some declined at then end of the year:

- Y/Y contract prices increased
- Orocobre saw its quarterly prices falling at the end o the year following competition from China on technical grade lithium carbonate
- Price erosion is likely but contract prices will not be as volatile as spot prices in China



#### Lithium is not a commodity, it is a specialty chemical:

- Lithium is spilt into different chemical products with different grades and specifications
- Not all producers are, or will be, able to produce battery grade product 36

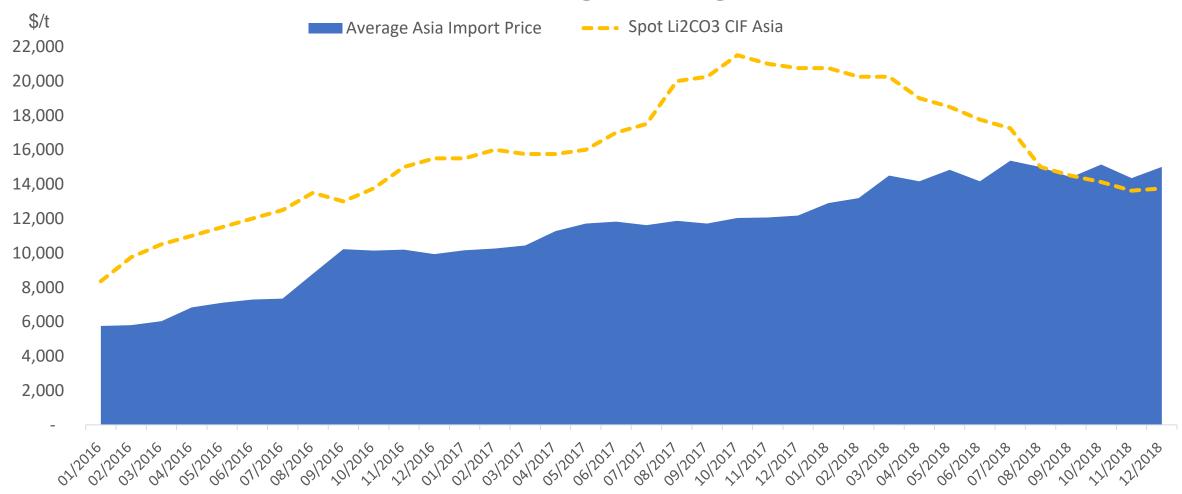


Source: Company reports, Benchmark Minerals Note: China prices do not include VAT

### Trade Statistics – A Good Reflection Of Price Movement







- Combining Japan, South Korea and China clearly shows the upward trend during the last three years
- Clear disconnect with reported spot prices which have now moved under contract prices



# Contract prices should maintain at a delta above costs





Contract prices are **unlikely to fall dramatically to cost levels** but rather remain at a delta above them



Money is needed to **pay back investments** and to **finance upcoming expansions** or projects, which both come on top of cost levels



A sufficient margin needs to be added to attract investment and generate acceptable return on capital



A lower lithium price and therefore falling investments **might lead to an undersupply situation** down the line





### Disclaimer



### **Scoping Study – Cautionary Statement**

The Study referred to in this announcement is a preliminary technical and economic investigation of the potential viability of the San Jose Lithium-Tin Project. It is based on low accuracy technical and economic assessments, (+/- 35% accuracy) and is insufficient to support estimation of Ore Reserves or to provide assurance of an economic development case at this stage; or to provide certainty that the conclusions of the Study will be realised. The Production Target referred to in this announcement is based on 91% Indicated Resources and 9% Inferred Resources for the life of mine life covered under the Study. In accordance with the twenty four (24) year mine plan incorporated into the Study, the first three (3) years of production (covering payback period) will come 96% from Indicated Resources. For full details of the Study refer to ASX announcement 29 November 2018.

### **Competent Persons Statement**

Snowden Mining (2017) and Cube Consulting (2018) estimated the total Mineral Resource for the San Jose lithium deposit using Ordinary Kriging interpolation methods and reported above a 0.1% Li cut-off grade. Full details of block modelling and estimation are contained in the ASX announcement dated 5 December 2017 and updated 22 May 2018.

The Resource which supports the Scoping Study was announced to the ASX on the 23 May 2018. Infinity is not aware of any new information or data that materially affects the information included in this ASX release, and Infinity confirms that, to the best of its knowledge, all material assumptions and technical parameters underpinning the resource estimates in this release continue to apply and have not materially changed.

The resource information in this report that relates to the December 2017 and updates in May 2018, updated Mineral Resources is based on the information compiled by Mr Patrick Adams, FAusIMM CP (Geology) and Mr Adrian Byass B.Sc Hons (Geol), B.Econ, FSEG, MAIG. Mr Adams and Mr Byass have sufficient relevant professional experience with open pit and underground mining, exploration and development of mineral deposits similar to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Person(s) as defined in the 2012 Edition of JORC Code. Mr Adams has not visited the project area and has relied on the documented (Byass, 2016-2018, Peters, May 2017) drilling, logging and sampling techniques used by Infinity in collection of data used in the preparation of this report. Mr Adams is a Principal Geologist and a Director of Cube Consulting Pty Ltd and consents to be named in this release and the report as it is presented. Mr Byass is employed by Infinity as a geologist and has visited the site during pre and post drilling activities, and consents to be named in this release and the report as it is presented.

Production Target and Scoping Study: The information in this report that relates to Exploration Results is based on the information compiled or reviewed by Mr Adrian Byass, B.Sc Hons (Geol), B.Econ, FSEG, MAIG and an employee of Infinity. Mr Byass has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the JORC Code for Reporting of Exploration Results, Exploration Targets, Mineral Resources and Ore Reserves. Mr Byass consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.



### San Jose Lithium Project





**Scoping Study\*** 

Lithium Carbonate – **Completed** Lithium Hydroxide – **Completed** 

**Feasibility Study** 

**Underway** 

**JORC Resource** (reported above 0.1% Li cut-off)

111.2Mt\* (#2 in the EU) (Ind. 59Mt, Inf. 52.2Mt) >1.6Mt LCE



Life of mine strip ratio

<1.2:1

Average ROM (yr1-8)

0.85% Li20 : 2.1% LCE\*

Plant feedstock

1.4% Li20 : 3.5% LCE\*



**Ownership** 

75% JV interest with an option to move to 100%



**Project life** 

24 years

Average 13kpta\* LC depletes <50% of JORC resource



**Product - battery grade** 

**Lithium Hydroxide: 13-16kt pa +56.5%** 

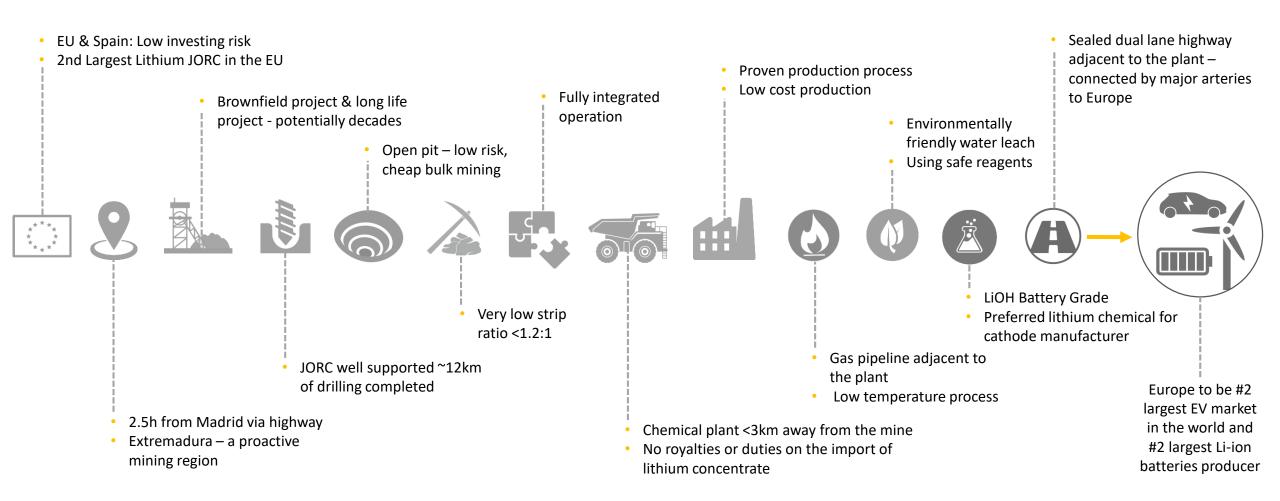
San Jose Lithium Project
Location: Extremadura – Spain
Market: Europe & Global

\*See Disclaimer on previous slide



# Fully Integrated Project - From Mining to Lithium Hydroxide

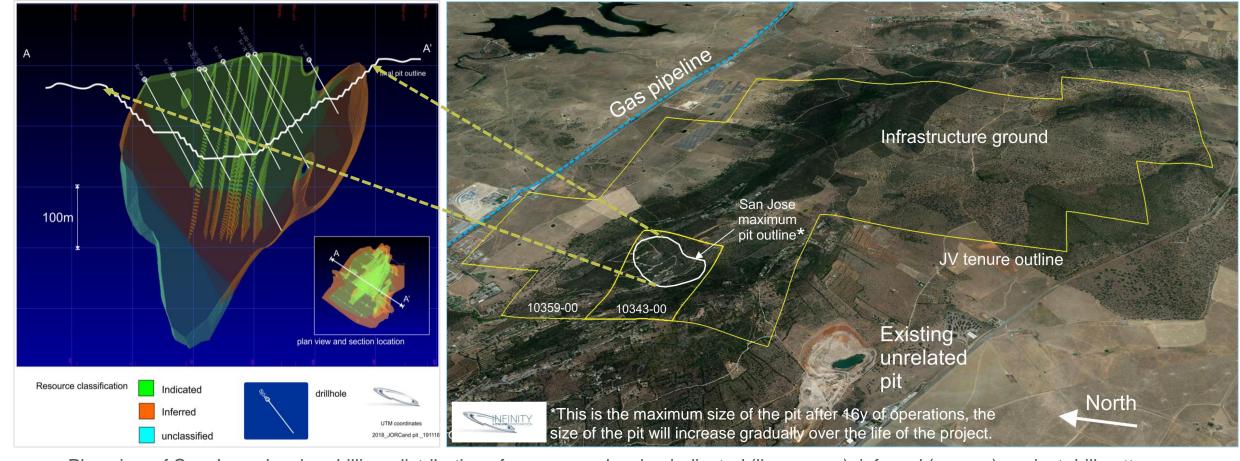






# Fully Integrated Project - From Mining to Lithium Hydroxide





Plan view of San Jose showing drilling, distribution of resources showing indicated (lime green), inferred (orange) against drill pattern

### SAN JOSE MINERAL RESOURCE, REPORTED ABOVE 0.1% LI CUT-OFF

1.66Mt LCE

Classification	Tonnes (Mt)	Li(%)	Li <sub>2</sub> O (%)	Sn ppm
Indicated	59.0	0.29	0.63	217
Inferred	52.2	0.27	0.59	193
TOTAL	111.3	0.28	0.61	206

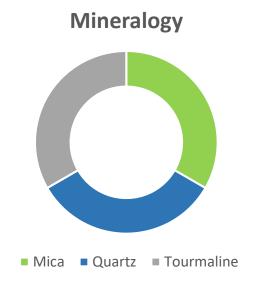
+90% Indicated Resources

# From Mining to Lithium Bearing Solution





Conventional mining process to 75um Crush & Mill through multi-stage crushing and Crush grinding Stage 2 **Transport** for processing Flotation used to separate micas with possible mag-separation upgrade to be Beneficiation further investigated Roasting Mixed with sulphate prior to roast. 840<sup>O</sup>C residence time ~ 25 minutes Stage **Processing** Lithium sulphate created in roast process Water Leach leached in potable water From this stage, the lithium-bearing solution can be heated to increase Purification concentration **Next stage Sulphate Recovery** 



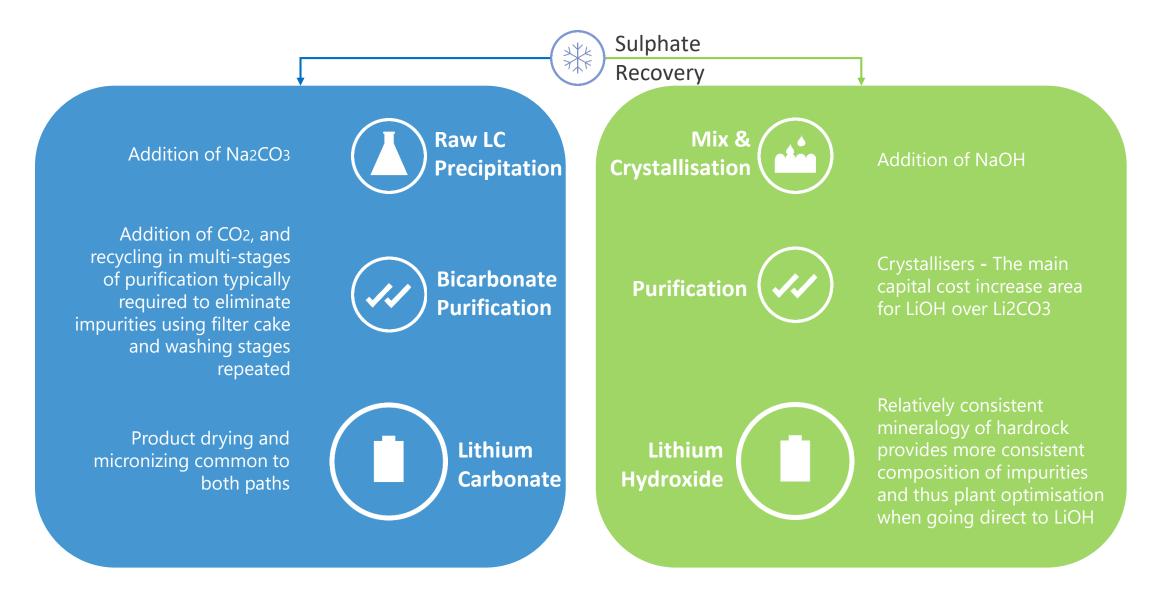
Ore material is approximately equal parts lithium-bearing mica, quartz and tourmaline



# **Lithium Bearing Solution to Lithium Product**







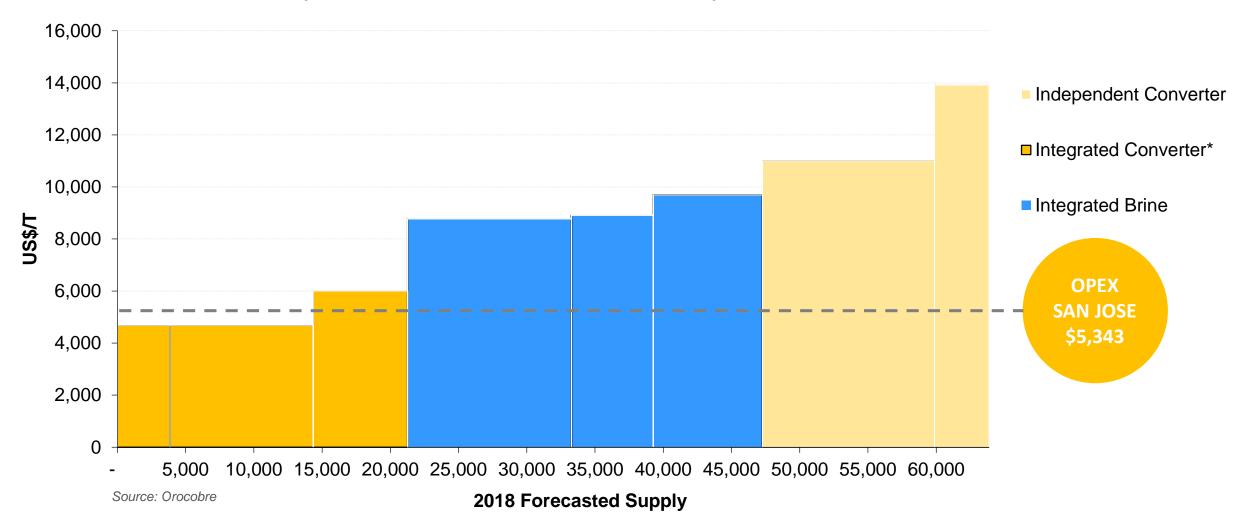




MASX: INF

# Li Hydroxide – Integrated Mineral Feedstock to Dominate

### **Hydroxide Cost Curve, Post-Taxes & Royalties**





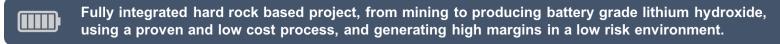
# Scoping Study Project Economics\* - Lithium Hydroxide



(100% Project Basis)

\*See Disclaimer slide

NPV <sub>10</sub> NPV <sub>10</sub> Pre-tax	US\$717m <sup>(1)</sup> US\$1,017m <sup>(2)</sup>	NPV <sub>8</sub> NPV <sub>8</sub>	US\$631m <sup>(1)</sup> US\$905m <sup>(2)</sup>
IRR Pre-tax	<b>51</b> % <sup>(1)</sup>	IRR Post-tax	37% <sup>(1)</sup>
Average OPEX	US\$5,343/t	CAPEX (Start-Up)	US\$288m <sup>(3)</sup>
Gross Operating Cash Flow (1st 10 years production)	US\$122m pa	Payback Period	2.3 years
Project Life	24 years	Resource (2 <sup>nd</sup> largest in EU)	1.6Mt LCE
Annual Production of lithium hydroxide	14-15kt pa	Annual ROM	1.25Mt pa



Assumed Sales Price: (1) Average LOM LiOH US\$ 14,896/t

(2) Average LOM LiOH US\$ 17,733/t

Assumed CAPEX: (3) All CAPEX includes 10% contingencies

NPI CAPEX included at Start-up US\$11m (Inception to year 2)

Ongoing CAPEX US\$17m (year 3 to 7)



# Infinity: The Best Large Scale Integrated Project In The EU

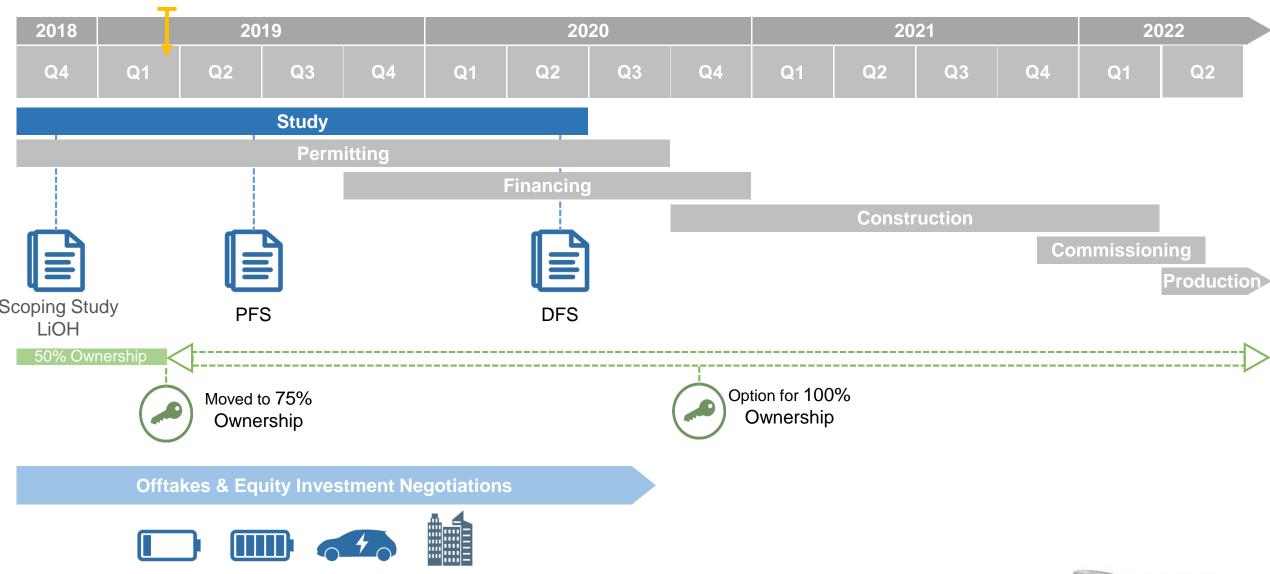


Company	European Metals	Infinity Lithium	Bacanora	Savannah Res.	Keliber	European Lithium	Lithium Australia
Project	Cinovec Czech Republic	San Jose Spain	Zinnwald Germany	Mino do Barroso Portugal	Several Finland	Wolfsberg Austria	Sadisdorf Germany
Mineral	Mica (Zinnwaldite)	Mica (Zinnwaldite)	Mica (Zinnwaldite)	Spodumene	Spodumene	Spodumene	Mica (Zinnwaldite)
Li20 (%)	0.42	0.86*	0.7	1.04	1.16	1.0	0.45
Mine	Underground 🙆	Open pit	Underground 😃	Open pit	Open pit & Underground	Underground 🙆	Underground 💩
Resources	7Mt LCE	1.6Mt LCE	0.7 <mark>5Mt L</mark> CE	0.52 <mark>Mt L</mark> CE	0.29Mt LCE	0.27 <mark>Mt</mark> LCE	0.27Mt LCE
Stage	Work on DFS Li2CO3 Work on PFS for LiOH	Working on PFS	Working on FS	Working on FS	DFS completed	Working on DFS	Exploration
End-product	Li2CO3 or LiOH	LiOH	n.a	Spodumene	LiOH	LiOH	Li2CO3
Opex \$/t (before credits)	5,211 (\$ (\$	5,343 (\$	n.a	<b>271</b> (\$	5,358 (\$	7,160 (\$ \$ \$	n.a
By-product	Calculated Tin, tungsten & potash	Not calculated Tin & boron	n.a	Not calculated Quartz & Feldspar	Not calculated Analcime sand & quartz- feldspar sand	Not calculated Feldspar & Quartz	n.a
Capex	\$393M	\$288M**	n.a	\$109M	\$370M	\$424M	n.a
Project life	21y <b>(</b>	24y <b>(</b>	n.a	11y (	13y <b>(</b>	10y 🕔	n.a
Production	22,500tpy	15,000tpy	n.a	175,000tpy spod.	12,000tpy	10,000tpy	n.a
Capex/t (\$/t)	17,467	19,200	n.a	n.a	30,800	42,400 \$ \$ \$	n.a
Comment	<ul> <li>High Iron Content</li> <li>Aggressive beneficiated feedstock at 2.7%</li> </ul>		<ul> <li>Early Stage</li> </ul>	<ul><li>Export to China</li><li>Not integrated</li></ul>	<ul><li>To buy feedstock after 13 years</li><li>Have to operate at 7 different sites</li></ul>	<ul><li>High Capex</li><li>High Opex</li><li>Short life</li></ul>	<ul> <li>Using an unproven technology (SiLeach)</li> </ul>



# **San Jose Project Timeline**







# **Board of Directors & Management**



**Kevin Tomlinson Non Executive Chairman** 





- +30 years experience in mining and finance within the Toronto, Australian, and London stock markets
- Background in project finance, development, and mining experience includes previous roles as Managing Director at Westwind Partners/Stifel Nicolaus and as a board member of Medusa Mining
- Currently on Boards of Centamin (LSE.CEY and dual TSX.CEE listed) and Cardinal Resources (ASX.CDV)



Ryan Parkin
Managing Director/CEO



CA ANZ BComm Accounting & Finance

- +15 years experience in corporate development, accounting and finance in both listed and unlisted companies
- Currently on Board of non-listed mining industry entity

Robert Orr
CFO & Company Secretary



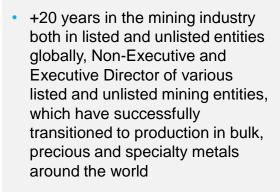
Chartered Accountant

 Acted as Chief Financial Officer and Company Secretary for a number of ASX listed companies, with over 30 years' experience in public practice and commerce.

Adrian Byass Executive Director



BSc Geol Hons, B. Econ



- Currently on Boards of ASX phosphate, zinc and nickel companies.
- ASX and AIM Board experience

Vincent Ledoux Pedailles
Executive Director



MA Business

- Background in consulting and research in the petrochemical industry, specialty chemicals, industrial minerals, base and minor metals
- Led the Lithium & Battery Metals team at IHS Markit and involved in the lithium industry since the early 2010's starting with Talison Lithium

David Valls Technical Manager - Spain

**BSc Geology** 

 +10 years in the mining and exploration industry in Europe and Africa as technical manager in the development of base and energy metals projects

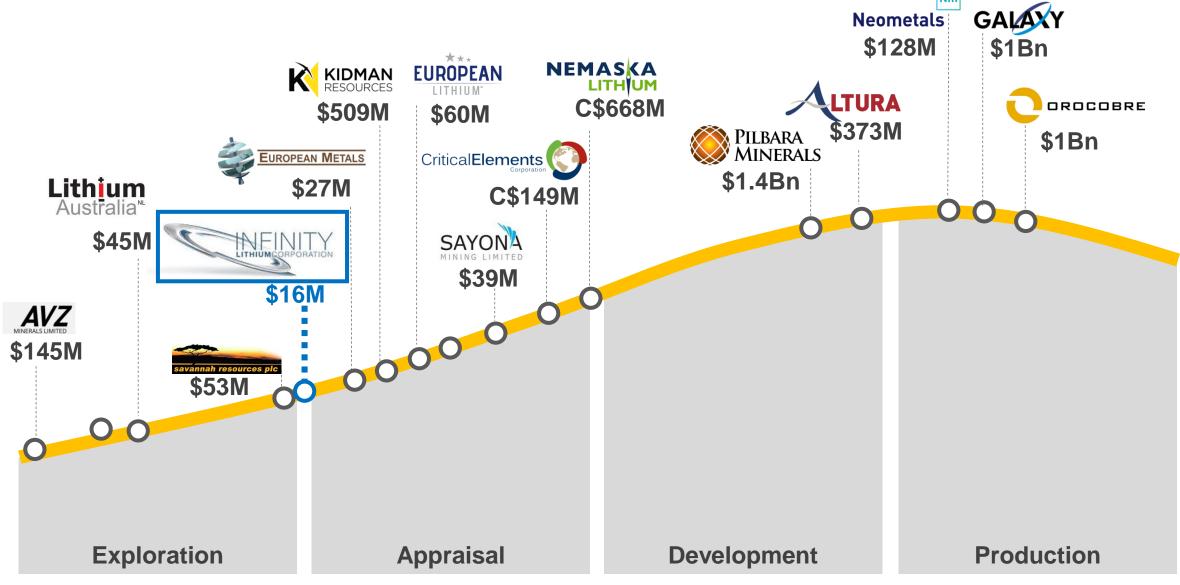


### **Corporate Overview**





# **Attractively Valued Versus Peers**





# Spain, 2<sup>nd</sup> Largest Car Producer In Europe Is Starting To Move



### In the last 3 months only:

Oct. 2018



Reyes Maroto: "We need to confront an orderly transition in industrial sectors such as the automotive industry"







El Pais: El Gobierno propone vetar las ventas de coches de gasolina y diésel en 2040



Jan. 2019

Olga García: "la minería en Extremadura es una estrategia capital en la transición energética"



**NEWS** 

Oct. 2018

El Mundo: El Gobierno quiere promover la fabricación de baterías para coches eléctricos en España





The Guardian: Spain plans switch to 100% renewable electricity by 2050



The Guardian: 'It's the only way forward': Madrid bans polluting vehicles from city center







### **Existing Model: Australia Capitalizing On Its Lithium Resources**



A few of the recent headlines...



Lithium 'buzz' could be worth hundreds of billions to Australia WA Today



WA set to take 'box seat' in booming global lithium industry ABC





Lithium worth 'hundreds of billions' to WA The West Australian



Lithium Job Boost - \$1Bn plant to create hundreds of Jobs The West Australian



Jobs boom as lithium plant gets state approval WA Today



Lithium Valley could be established in WA just as Silicon Valley happened in California Lithium Valley Report



Lithium could give WA its next mining boom Perth Now

"WA needs a plan and the strategy otherwise the long term benefits of the current energy metals boom will be lost"



Lithium to generate billions of \$ to the region



Lithium to provide thousands of jobs to the region



Lithium to support the community and generate growth

### Spain also has the opportunity to capitalize on its lithium resources

The San Jose project has the second largest lithium resource in West Europe and could generate significant revenue for the region and hundreds of job, as well as creating a new industry for Spain to capitalize on.



# Extremadura - A Contrasted Region





"Extremadura, una región minera en Europa"

"Extremadura, a mining region in Europe"

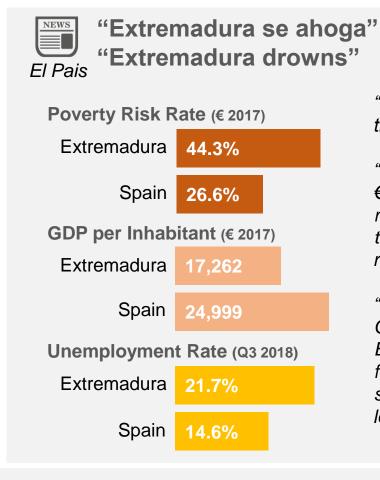
The region is proactive in mining, from gold to lithium, Extremadura is negotiating with 230 new mining projects



### The region support project development:

March 2018

W Resources and its tungsten project at La Parilla was awarded a grant of €5.3M by the Junta de Extremadura Government



"Poverty in Extremadura is the highest in the country"

"0.5 million people live with €700 per month, this represents almost half of the population of the region"

"2018 EU Joint Research Centre research noted Extremadura would benefit from social & economic stimulation, with one of the lowest GDPs in Europe"

### **Infinity's San Jose Project**



 Potentially > US\$1 Billion in tax for the region - VAT derived from the San Jose Project retained within Extremadura



 More than 200 jobs created directly and approximately another 1,000 supporting development roles

# Extremadura Can Power The E-mobility Revolution In Europe







To Become #2 Largest EV Maker In The World

Voted Strict Targets To Ban ICE
Cars



To Support The Development Of A Fully Integrated Lithium-ion Battery Supply Chain

To Become The #2 Largest
Producers Of EV Batteries In The
World



**No Existing Lithium Production** 





#2 Largest Car Manufacturer In Europe

Proposes To Veto The Sales Of ICE Cars In 2040



To Promote The Manufacture Of Batteries For Electric Cars In Spain







Cluster in Electric Mobility of Extremadura



#2 Largest Lithium Resources in Europe

Only Viable Long Term Lithium Chemical Project In Europe



> US\$1 Billion in tax for the region



>200 jobs created and another 1,000 supporting roles

Infinity Lithium Corporation



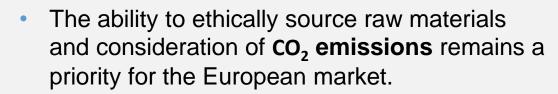
# Sustainability & Carbon Footprint: A Growing Matter

# Limit CO2 Emissions From The EV Supply Chain – A Priority For Europe











 European Commission: Lithium refining is being promoted as part of a broader strategic push to develop an entire battery valuechain inside Europe



 Volkswagen gives suppliers an ultimatum on emissions, ask them to work with VW to cut carbon emissions



"Europe needs its own battery supply chain", "Given the sheer size of the requirements to the European industry similar to what's happening in Asia it makes most sense in my opinion to have a **regional supply chain**"

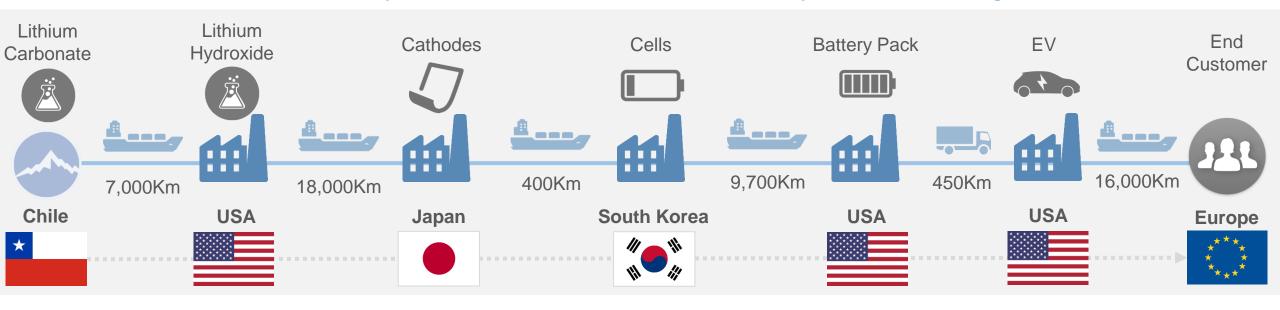


# **Carbon Footprint - Lithium**



### What is a potential current pathway for lithium when you buy a luxury EV in Europe

The lithium inside you car travels more than **50,000km** before you even start driving\*



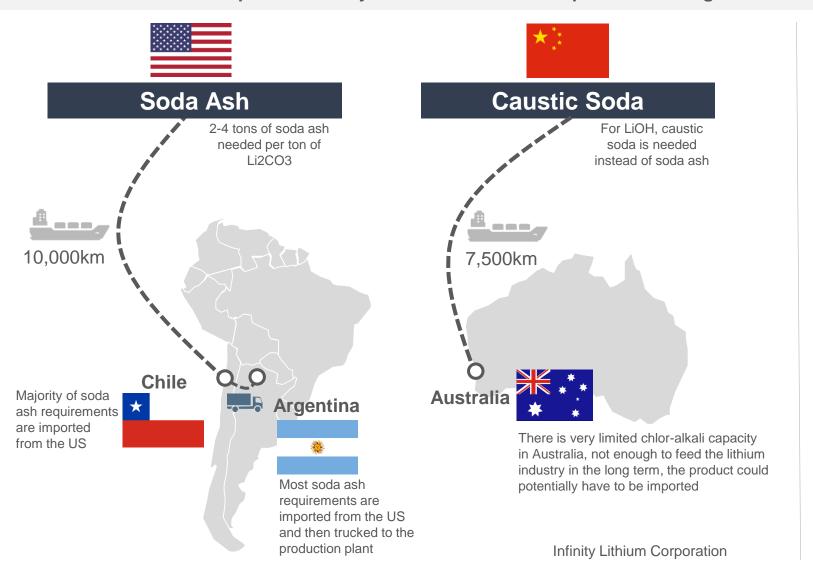
### Integration – dramatically reducing the carbon footprint



# Lithium Processing Itself Should Improve Its Carbon Footprint



Lithium Chemical production requires important volumes of re-agents. Most existing and future lithium chemical/conversion plants are very remote and have to import those re-agents from very far away

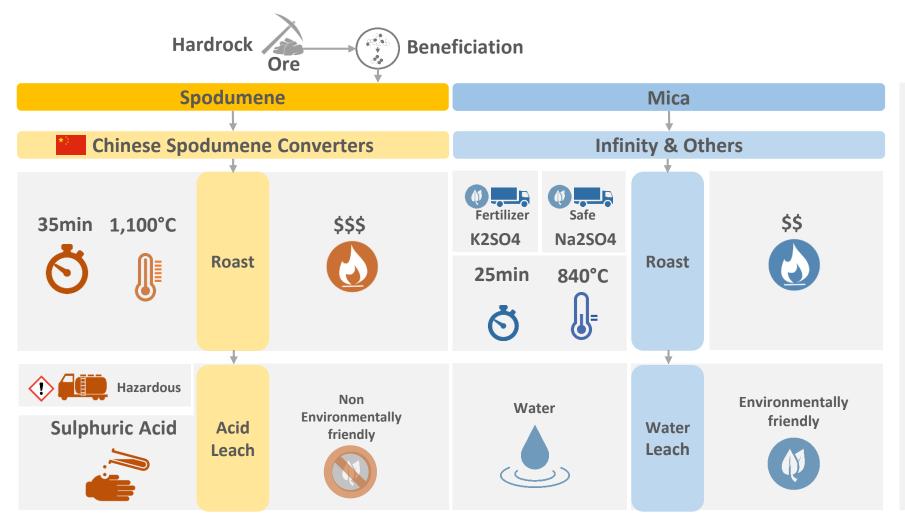


# **Infinity Lithium** Available Domestically **Caustic Soda Sodium Sulphate** 500km Minimum carbon footprint for re-agents **Spain**



# **Processing Hard Rock – Different Energy and Reagents Needs**



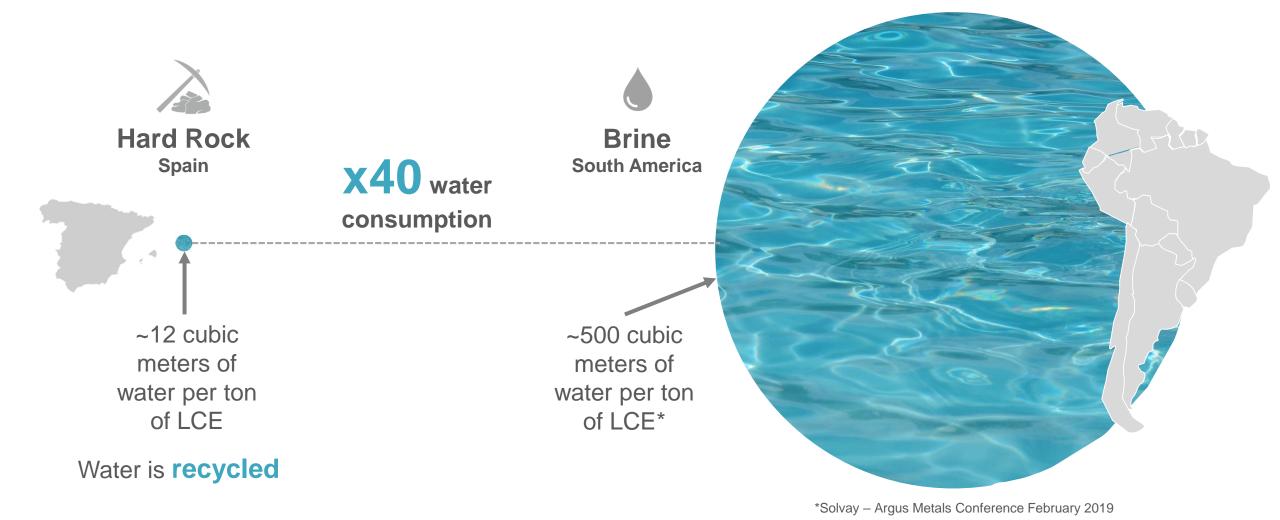


- Infinity's energy
  requirements are
  lowered by its shorter
  and lower temperature
  roasting process
- Infinity doesn't use sulphuric acid but rather safe and readily available reagents
- Infinity uses recycled water as opposed to acid during its leaching process



# Water Consumption in Lithium Production – An Environmental Concern







# San Jose: A low Carbon Footprint & Sustainable Project





San Jose is

a unique

integrated

offering the

lithium

project,

fully

 Very small water requirement and most of the water is recycled All reagents available domestically

Chemical plant <3km away from the mine

Roasting process uses safe reagents such as sodium sulphate · Leaching process uses water which

Able to supply end-users

Very low strip ratio < 1.2:1

Low temperature process (840C) and short (25min)

requiring less energy

is almost entirely recycled

Light footprint

Minimum waste





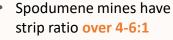






regionally, only a few

hundred kilometers away



More waste

Spodumene roasting is energy intensive (1,100C) and longer (35min)

volumes of sulfuric acid, a hazardous and polluting chemical Leaching also involves sulfuric acid

Roasting in China involves large

 Future chemical plants in Australia will still be 200-400km away from mine

<8,000km away in China

Chemical plant

 Brine operations in South America require very large amounts of water in extremely dry locations

Water rights and environmental issues

Reagents often need to be imported from thousands of kilometers away

• The lithium inside your car can travel more than 50,000km before you even start driving

Heavy footprint



battery

industry in

Europe a

long term,

large, and

source of

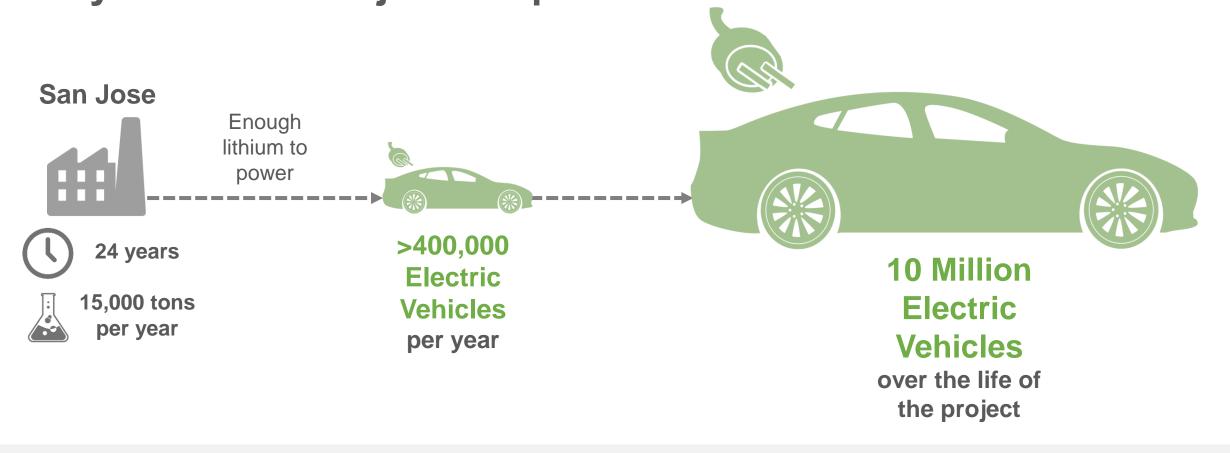
supply.

sustainable

64

# Infinity Lithium's Project In Spain To Power Millions Of Cars





- San Jose could also power 1.3 Million Plug-in Cars per year or >30 Million over the life of the project
- San Jose could also power 16 Million Hybrid Cars per year or >400 Million over the life of the project



# Social Sustainability – A Huge Opportunity For Caceres





Potentially > US\$1 Billion in tax for the region - VAT derived from the San Jose Project retained within Extremadura



>200 jobs created and another 1,000 supporting roles



Support local businesses and attract new companies to the region, generating further growth and opportunities



Lithium to support the community and generate growth



Support from the EU/EC/EIB for training initiatives and funding assistance to retain expertise in the region



### San Jose Project Snapshot

### **Planned Mine**

- 2nd Largest Lithium JORC in the EU
- Open pit low risk, cheap bulk mining
- Brownfield project & long life mine
- Very low strip ratio <1.2:1
- Higher grades accessible in earlier production years



### Output



- Economic advantages LiOH production from rock compared to brines
- Hydroxide has become the preferred lithium chemical for cathode manufacturer as they move towards nickel-rich cathode
- 40% py growth rate for battery grade lithium hydroxide to 2027

### Location

- EU & Spain: Low investing risk
- 2.5h from Madrid via highway
- Extremadura a proactive mining region
- More than 200 jobs created directly and ~1,000 supporting roles



### **Existing Infrastructure**

- Sealed dual lane highway adjacent to the plant connecting the project by major arteries to Europe
- Gas pipeline adjacent to the project area



### **Planned Processing**

- Fully integrated operation
- Chemical plant <3km away from the mine
- No royalties or duties on the import of lithium concentrate
- Proven production process
- Low cost production

- Ample cheap energy
- Low temperature process
- Environmentally friendly water leach
- Plenty of reagents availability domestically



### **Cathodes**



Cathode production, requiring lithium chemical, is developing in Europe with multiple large scale investments



### **Batteries**



Significant European developments with mega battery factories being built and the continent set to be the second largest li-ion battery producer in the world



### **Electric Vehicles**



- EU pushing for ICE phaseout and rapid EV growth
- European automakers are launching ambitious electrification plans
- Europe to be the second largest EV market in the world







### Renewables



- EU & Spain to accelerate the production of renewable energies
- Energy Storage Systems smoothen out power fluctuations of "weather-driven" renewable sources 67

