



**ARGOSY MINERALS**  
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# Fast-track development in the world's most prolific lithium region

Investor Presentation – May 2017

ASX Code: AGY



[www.argosyminerals.com.au](http://www.argosyminerals.com.au)

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The information in this report that relates to technical matters is based on information compiled by Jerko Zuvela who is the Managing Director of AGY. Mr Zuvela is a Member of the Australasian Institute of Mining and Metallurgy.

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All amounts in A\$ unless stated otherwise.



# Company Overview

*Lithium brine projects in Lithium Triangle with pilot plant development works commenced*



Multiple projects in the world-class “Lithium Triangle” – the world’s dominant source of lithium production:

- *Rincon – JV, located in Salar del Rincon*
- *Mina Teresa – located adjacent to former Orocobre (ASX: ORE) concessions in Salinas Grandes Salar*
- *Pocitos – previously explored with historical values of lithium and boron, located in Salar de Pocitos*

Focus on lower cost brines vs. hard rock production

Fast-track development at Rincon Project commenced

- *First brine ponds complete and lab-scale pilot plant in development*

Pre-eminent lithium processing expert Pablo Alurralde to manage Rincon Project

Stage 1 to produce LCE product (up to 100 – 150 tonnes) at Rincon Project funded and in progress

MOU’s signed for potential investment to fund and fast-track Stage 2 development works (up to 1000 – 1500tpa) at Rincon Project

- Argentina – open for business
- Strong upcoming news flow on continued Rincon development and strategic investor process



# Capital Structure, Share Price & Milestones

## Last 12-Months Share Price Performance and Key Milestones

### Capital Structure

|                          |  |
|--------------------------|--|
| Shares on Issue          | 754.75M  |
| Options on Issue         | 12.5M exercisable at \$0.09, expiring 13/6/2017<br>10M exercisable at \$0.045, expiring 6/4/2020 |
| Share Price              | 9.5c (@ 25/5/2017)   |
| Market Capitalisation    | \$71.7 million (@ 9.5 cents)   |
| Cash                     | ~\$2.06m (@ 31/3/2017)   |
| Significant Shareholders | Directors & Management ~15%  |

Rincon Project Area  
Further Doubled

MOUs Signed With  
Chinese Investors  
to Fast-Track Stage  
2 Development

Rincon Brine Ponds  
Construction  
Commences

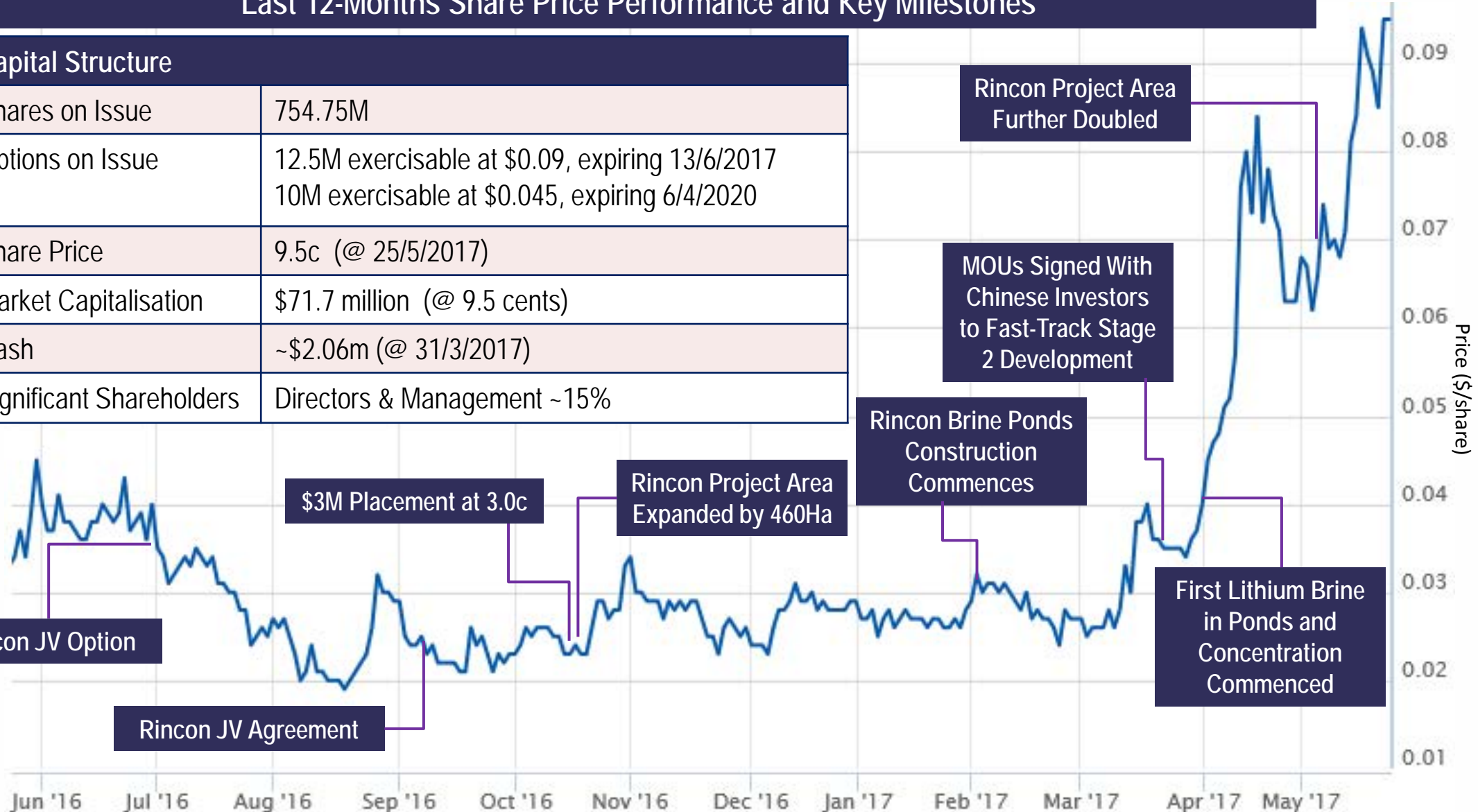
First Lithium Brine  
in Ponds and  
Concentration  
Commenced

\$3M Placement at 3.0c

Rincon Project Area  
Expanded by 460Ha

Rincon JV Option

Rincon JV Agreement



# Directors & Management

## Alex Molyneux – Non-Executive Chairman

Mr. Molyneux is an experienced resources industry executive. Mr. Molyneux currently serves as CEO of uranium producer, Paladin Energy Limited. He is a Co-Founder of Azarga Resources Group and Non-Executive Chairman of Azarga Metals Corp. Mr. Molyneux was previously President, CEO and Director of SouthGobi Resources, an Ivanhoe Mines Group company, and a Non-Executive Director of Goldrock Mines Corp. Prior to joining SouthGobi, Mr. Molyneux had a 10-year career as a natural resources investment banker, including as Managing Director, Head of Metals and Mining Investment Banking, Asia for Citigroup.

## Jerko Zuvela – Managing Director

Mr Zuvela is a Chartered Professional Geologist having spent over 20 years in the mining and resources industry. Mr. Zuvela has held executive management roles for private and public resources companies, with operational and corporate experience in various commodities covering exploration, project development, business development, finance, commercial and corporate activities involved with projects in Australia, South America, Asia and Africa. Mr. Zuvela has considerable experience in building junior resources companies and understands the requirements working within this sector, including fundamental parameters, strategic drivers and market requirements.

## Ranko Matic – Non-Executive Director

Mr Matic is a Chartered Accountant with over 25 year experience in the areas of financial and executive management, accounting, audit, business and corporate advisory. Mr Matic is a director of a chartered accounting firm and a corporate advisory company based in Perth, and has specialist expertise and exposure in areas of audit, corporate services, due diligence, mergers and acquisitions, and valuations.

## Mal Randall – Non-Executive Director

Mr Randall (Dip Applied Chem, FAICD) holds a Bachelor of Applied Chemistry degree and has more than 45 years' of extensive experience in corporate, management and marketing in the resources sector, including more than 25 years with the Rio Tinto group of companies.

## Pablo Alurralde – President Rincon JV Project

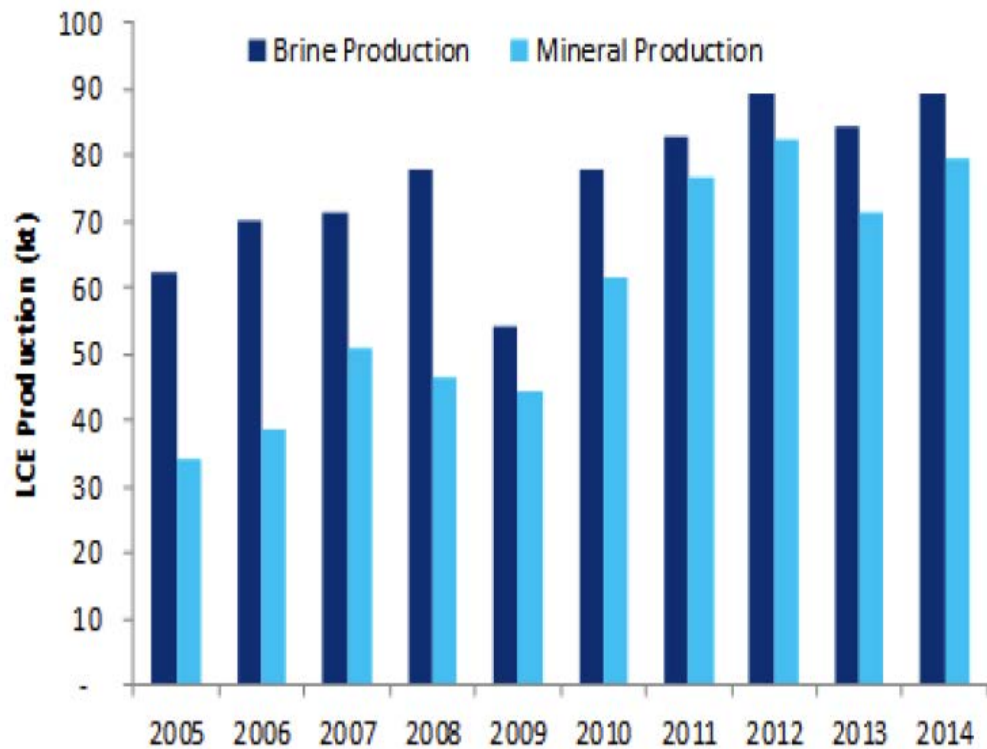
# Lithium 101: Brine vs. Hard-Rock Production

*Most lithium production comes from lower cost brine production*



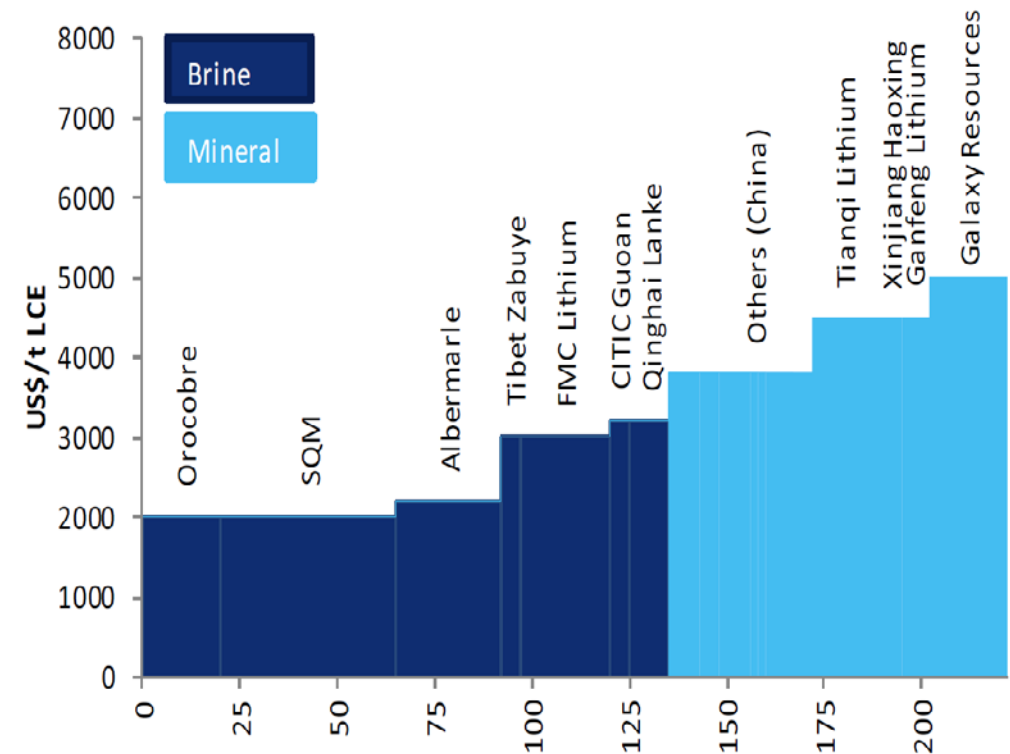
- Lithium production is predominantly delivered from brines
- Brines have significantly lower extraction costs compared to hard rock deposits

## Lithium Production by Deposit Style



Source: Citi Research

## Lithium Cost Curve (by Capacity)



Source: Citi Research

Argosy is focused on developing brine projects with the potential to have low capital and operating costs



# Argosy in the “Lithium Triangle”

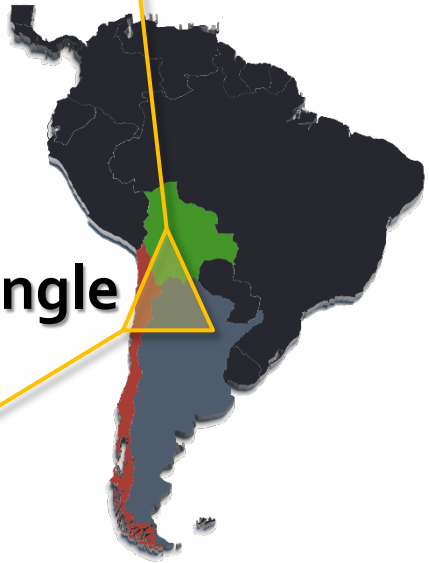
World’s most prolific lithium producing region



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49% of Global Lithium Production from the “Lithium Triangle” which holds approximately 70% of World’s Lithium Reserves



The Lithium Triangle

- AGY Rincon JV Lithium Project
- AGY Projects – Mina Teresa & Pocitos

Salars (salt flats)



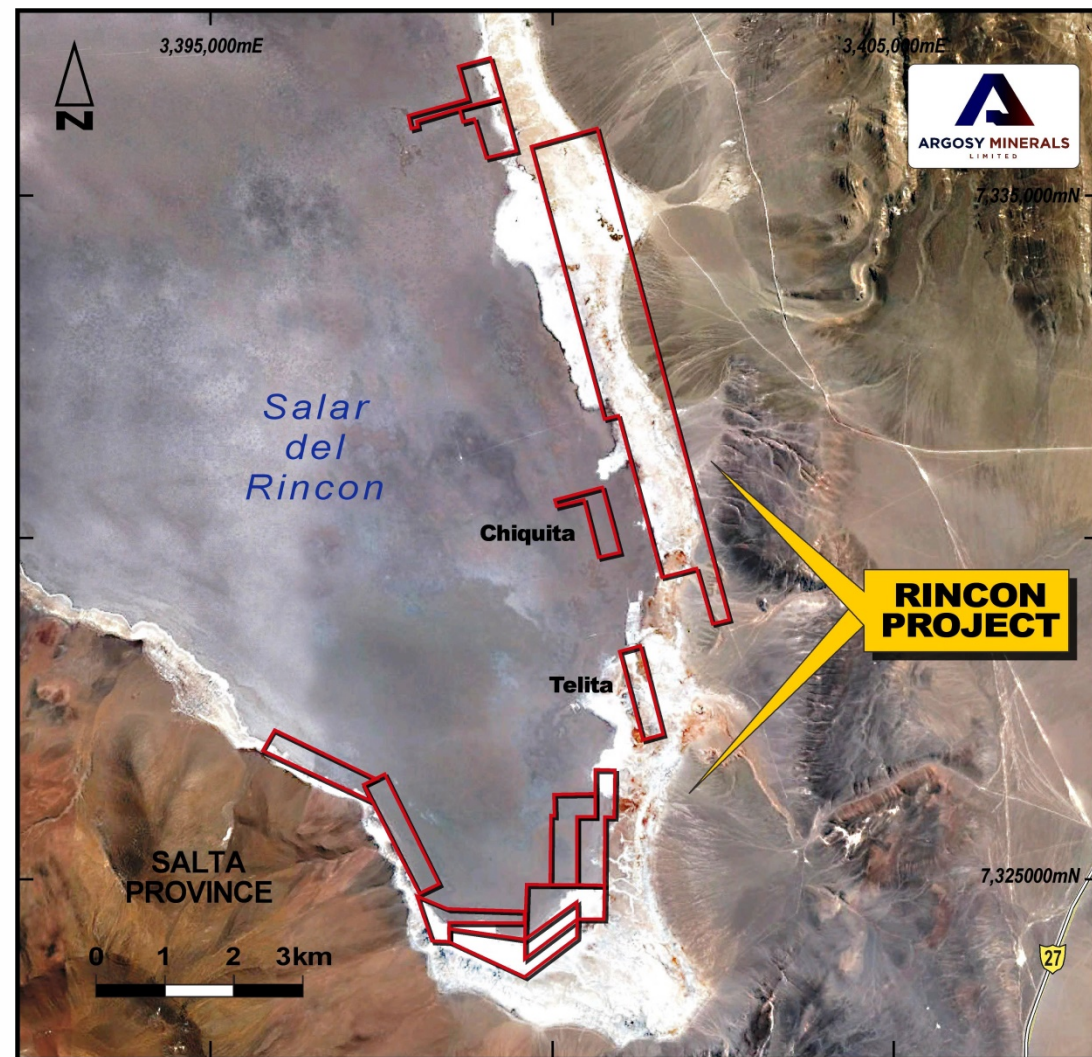
# Rincon Project: Recent History and Overview

*A significant opportunity to achieve near-term lithium production*

- Binding JV Agreement executed September 2016
  - *Argosy to earn up to a 90% interest in the Project*
  - *Partnership with Argentinian lithium processing expert Pablo Alurralde*
- Project currently comprises up to 1,289Ha of strategic mining concessions within Salar del Rincon
- Extensive historical works conducted within Salar del Rincon
  - *Average lithium brine content of 300-400ppm (Ferretti, 1989)*
  - *Historical drilling & associated works indicate average lithium content of 397ppm (Ovejero Toledo, 2007)*

| Pozo<br>piezométrico       | (Sample depth (m))         |     |     |     |     |
|----------------------------|----------------------------|-----|-----|-----|-----|
|                            | Profundidad de muestra (m) |     |     |     |     |
|                            | 10                         | 20  | 30  | 40  | 50  |
|                            | Li <sup>+</sup> (mg/l)     |     |     |     |     |
| PPR 1001                   | 456                        | 397 | 409 |     |     |
| PPR 1002                   | 401                        | 400 | 392 | 334 |     |
| PPR 2001                   | 385                        | 369 | 345 | 337 |     |
| PPR 2002                   | 393                        | 395 | 379 | 338 |     |
| PPR 3001                   | 388                        | 361 | 369 | 380 |     |
| PPR 3002                   | 417                        | 418 | 415 | 383 | 376 |
| PPR 4001                   | 394                        | 426 | 390 | 427 | 370 |
| PPR 4002                   | 427                        | 438 | 389 | 401 |     |
| PPR 5001                   | 383                        | 405 | 393 | 390 | 384 |
| PPR 5002                   | 444                        | 456 | 449 | 408 | 453 |
| PPR 6001                   | 410                        | 414 | 446 | 435 |     |
| PPR 6002                   | 436                        | 423 | 390 | 372 |     |
| PPR 7001                   | 370                        | 364 | 369 | 349 |     |
| PPR 7002                   | 434                        | 407 | 388 | 372 |     |
| (Average) Media aritmética | 397 mg/l                   |     |     |     |     |

\* Según Ovejero Toledo 2007.  
(According to Ovejero Toledo 2007)



Rincon Project Location Map



# Rincon Project: Location and Infrastructure

*A significant opportunity to achieve near-term lithium production*

- The Project lies within Salta Province, ~3700m ASL, serviced by city of Salta with population of 600,000
- The region is known for its evaporation rates, given UV is very high, with ~90% of all the days of the year being cloud free and an minimal rainfall.
- High quality regional and site infrastructure, including the Pocitos industrial site, will facilitate project development, with road, rail, port facilities and power generation services such as electrical and natural gas.



Pocitos industrial site



Salar del Rincon (looking southwards)

# Rincon Project: Development Milestones

*A significant opportunity to achieve near-term lithium carbonate production*



**Stage 1 - AGY to earn 50% interest (underway)**

Pilot plant to produce up to 100-150t of commercial grade clean LCE.

**Stage 2 - AGY to earn 77.5% interest**

Complete development works to expand production up to ~1,000 - 1,500 tpa LCE

**Stage 3 - AGY to earn 90% interest**

Full commercial LCE production

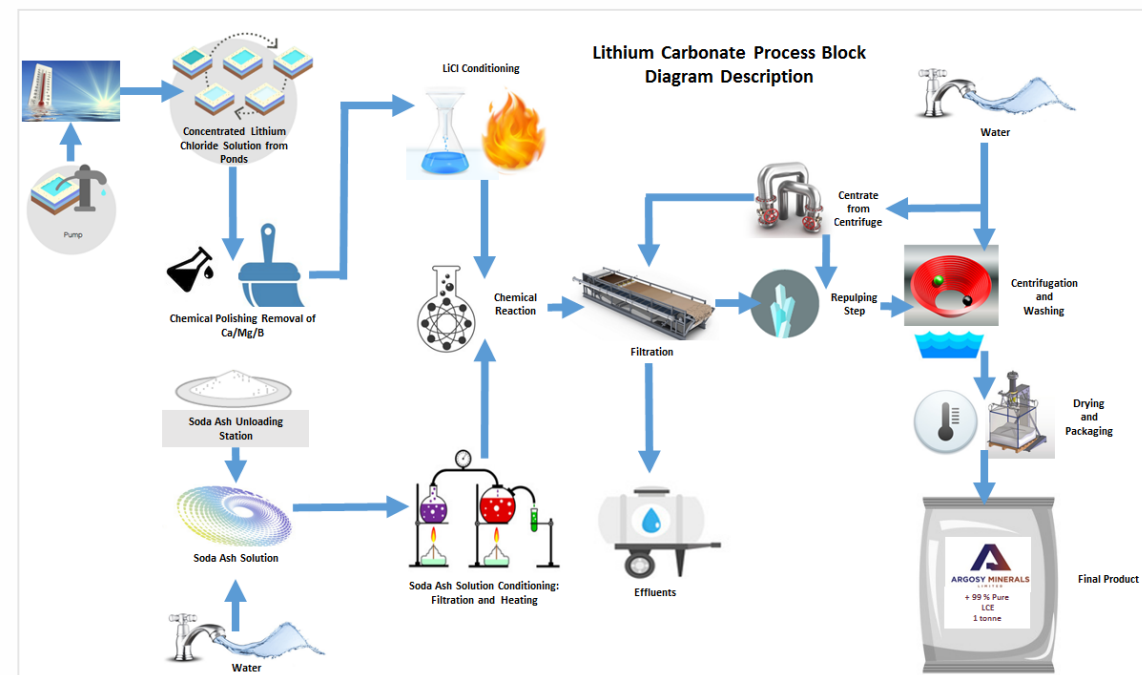
| Stage 1 Works Schedule  | Dec-16 | Mar-17 | Jun-17 | Sep-17 | Dec-17 | Mar-18 |
|---|--------|--------|--------|--------|--------|--------|
| Environmental studies and regulatory approvals/permits  |        |        |        |        |        |        |
| Pond construction and associated works, including contractor tendering  |        |        |        |        |        |        |
| Pond lining and associated works  |        |        |        |        |        |        |
| Brine extraction, pumping, storage and transportation works   |        |        |        |        |        |        |
| Pilot plant construction and test-works, including brine processing, analysis and laboratory treatment of the lithium concentrate |        |        |        |        |        |        |
| Pending success of the stage 1 development works, produce LCE product   |        |        |        |        |        |        |



# Rincon Project: Stage 1 Development Works Commenced

*Potential investment to fast-track Stage 2 development strategy*

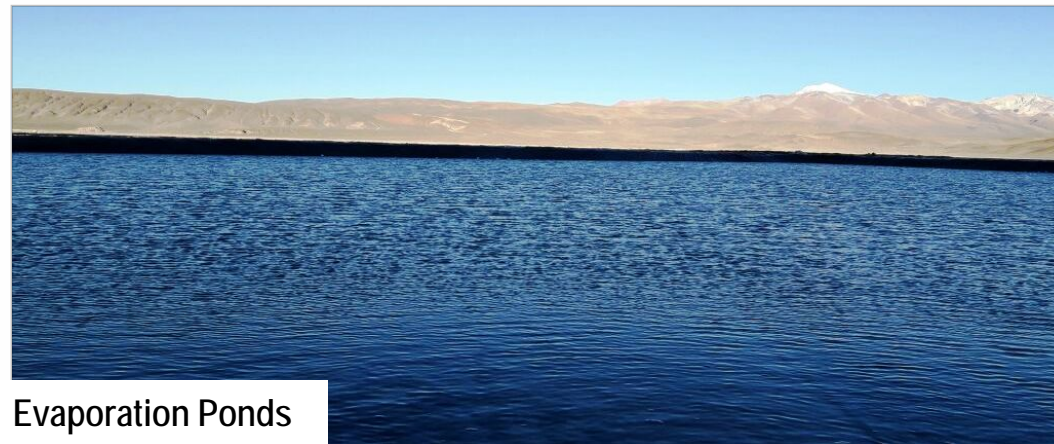
- ✓ Pilot plant to produce up to 100-150t of commercial grade clean LCE product
- ✓ Pond construction works have commenced on-site
- ✓ Plant location site established to build lab-scale pilot plant
- ✓ *Plant design completed*
- ✓ MOU's with strategic Chinese lithium battery companies for potential investment to fast-track Stage 2 development works – planning works initiated
- ✓ *CCK Industrial Group Co., Ltd.*
- ✓ *Shanghai Greatpower Industry Co., Ltd.*



Rincon Project Conceptual Process Flow Sheet



Rincon Project – Stage 1 Evaporation Ponds





# Rincon Project: Key Partner & Expertise

*Pablo Alurralde & Lithium Processing Patents*



## Partnership with Argentinian lithium expert Pablo Alurralde

- Chemical Engineer and Master of Philosophy, former director of FMC Argentina operations
- 15 years' experience producing lithium carbonate and 30 years' experience designing chemical processes
- With chemical solution to extract lithium from brines at Rincon
- Successfully produced lab-scale LCE product from Salar del Rincon historically
- Patent presented at US Patents Offices as first inventor for "Production of Lithium Carbonate from concentrated brines on sodium chloride" granted to FMC
- Technical reports on benefit of Rincon and other salars
- Experience in the optimisation of industrial plants, international commerce and logistics
- In-depth knowledge of international lithium market



US008309043B2

|   |  |
|---|--|
| (12) <b>United States Patent</b><br><b>Alurralde et al.</b>   | (10) <b>Patent No.:</b> <b>US 8,309,043 B2</b>   |
|   | (45) <b>Date of Patent:</b> <b>Nov. 13, 2012</b>   |
| (54) <b>RECOVERY OF LI VALUES FROM SODIUM SATURATE BRINE</b>  | 4,347,327 A 8 1982 Lee et al.  |
|   | 4,348,295 A 9 1982 Barba   |
|   | 4,348,296 A 9 1982 Bauman et al.   |
|   | 3,348,497 A 9 1987 Hanuman et al.  |
| (75) Inventors: <b>Pablo Alurralde</b> , Salta (AR); <b>Vijay Mehra</b> , Gastonia, NC (US)   | 4,378,100 A 3 1983 Lee et al.  |
|   | 4,783,109 A 4 1983 Lee et al.  |
|   | 4,430,311 A 2 1984 Lee et al.  |
| (7A) Assignee: <b>FMC Corporation</b> , Philadelphia, PA (US)   | 4,461,714 A 7 1984 Barba   |
|   | 4,472,362 A 9 1984 Barba   |
|   | 4,473,962 A 9 1984 Meunier   |
|   | 4,477,307 A 10 1984 Barba  |
| (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.                          | 5,380,249 A * 2 1995 Bauman et al. 423 179.5   |
|   | 5,609,516 A * 2 1997 Bauman et al.   |
|   | 6,017,500 A * 1 2000 Mehra 433 179.5   |
|   | 6,555,678 B1 * 4 2003 Mehra 423 179.5  |
|   | 2011 0306041 A1 * 12 2011 Gell et al. 433 179.5  |
| (21) Appl. No.: <b>13/288,389</b>   | FOREIGN PATENT DOCUMENTS   |
| (22) Filed: <b>Nov. 3, 2011</b>   | JP 6117316 A1 9 1984   |
| (65) <b>Prior Publication Data</b>  | OTHER PUBLICATIONS   |
| US 2012/0141342 A1 Jan. 7, 2012   | Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration corresponding to International Application No. PCT/US2011/059673 mailed Jan. 23, 2012.   |
| <b>Related U.S. Application Data</b>  | * cited by examiner  |
| (60) Provisional application No. 61/420,042, filed on Dec. 6, 2010.   | Primary Examiner: Steven Bos   |
| (51) <b>Int. Cl.</b> <b>C01D 25/09</b> (2006.01)  | (74) <b>Attorney, Agent, or Firm</b> Myers Bigel Sibley & Seavey, PA   |
| (52) <b>U.S. Cl.</b> <b>423/179.5; 252/184; 23/295 S; 23/306</b>  | (57) <b>ABSTRACT</b>   |
| (58) <b>Field of Classification Search</b> <b>423/179.5; 423/181; 23/295 S; 306; 252/184</b><br>See application file for complete search history. | The present invention provides a process for recovering Li values from a sodium saturated brine. The process includes recovering Li values from a sodium saturated brine which contains LiX. The process includes concentrating the sodium saturated brine to at least 5000 mg/L LiX, passing the concentrated brine through a bed of polycrystalline hydrated alumina pellets until the pellets are loaded with LiX from the concentrated brine, displacing brine held-up in the bed by using concentrated NaX, unloading LiX from the pellets by flowing through the bed an aqueous solution of LiX which is not saturated, displacing the LiX from the bed using concentrated NaX, and repeating the steps at least one additional time to provide the Li values. |
| (56) <b>References Cited</b>  | <b>6 Claims, No Drawings</b>   |
| U.S. PATENT DOCUMENTS   |  |
| 3,099,538 A 7 1963 Hadzenga   |  |
| 3,406,700 A 2 1967 Neppel et al.  |  |
| 4,116,856 A 9 1978 Lee et al.   |  |
| 4,116,858 A 9 1978 Lee et al.   |  |
| 4,159,311 A 6 1979 Lee et al.   |  |
| 4,221,767 A 9 1980 Lee et al.   |  |
| 4,291,001 A 9 1981 Repcher et al.   |  |

Patent for "Recovery of Li values from sodium saturate brine"  
**US 8309043 B2**



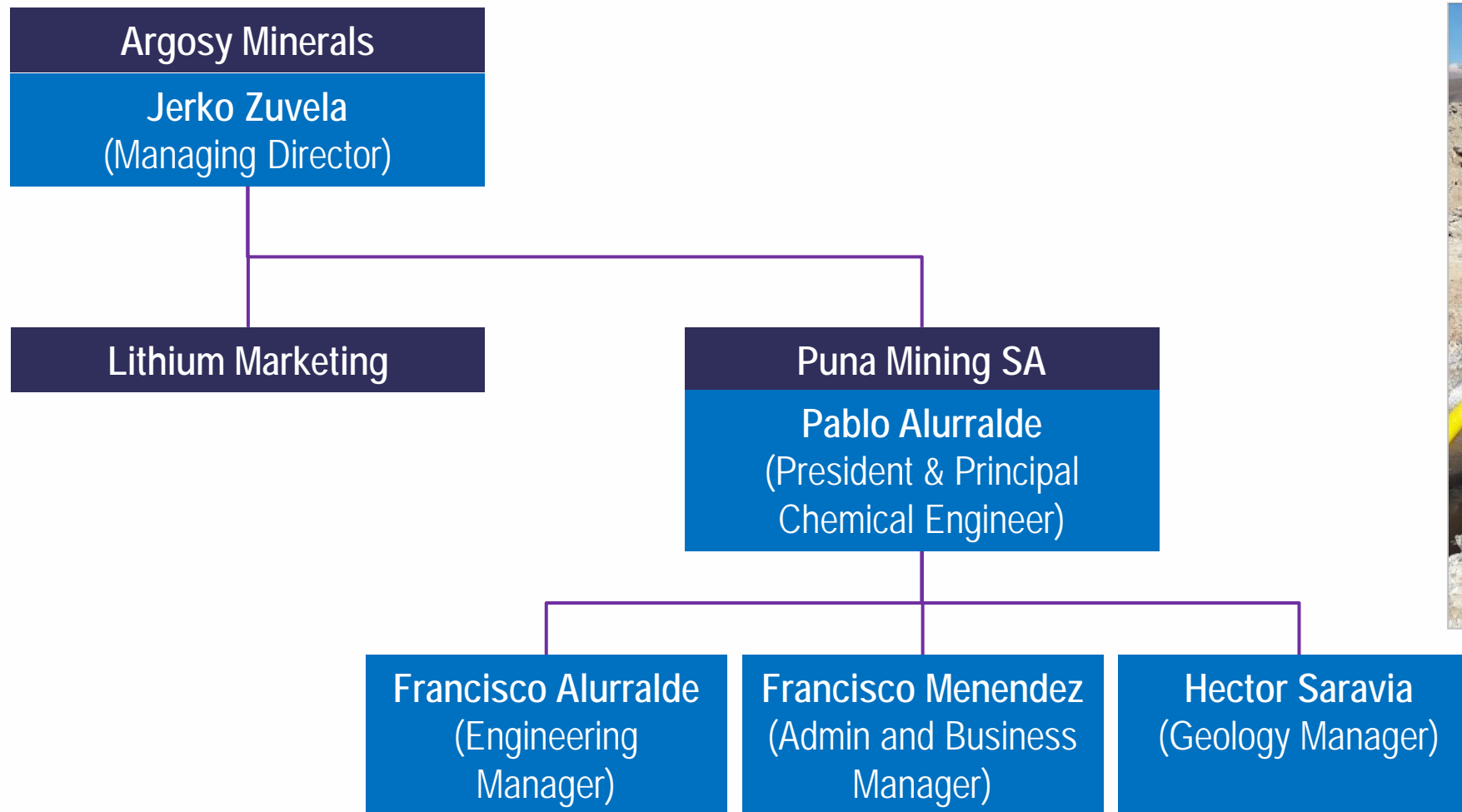
# Rincon Project: Executive Management

## Management team



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✓ Argosy has executed a Definitive Farm-In Joint Venture Agreement for the Rincon Lithium Project and will earn up to a 90% interest in the Argentinian joint venture company – Puna Mining S.A.

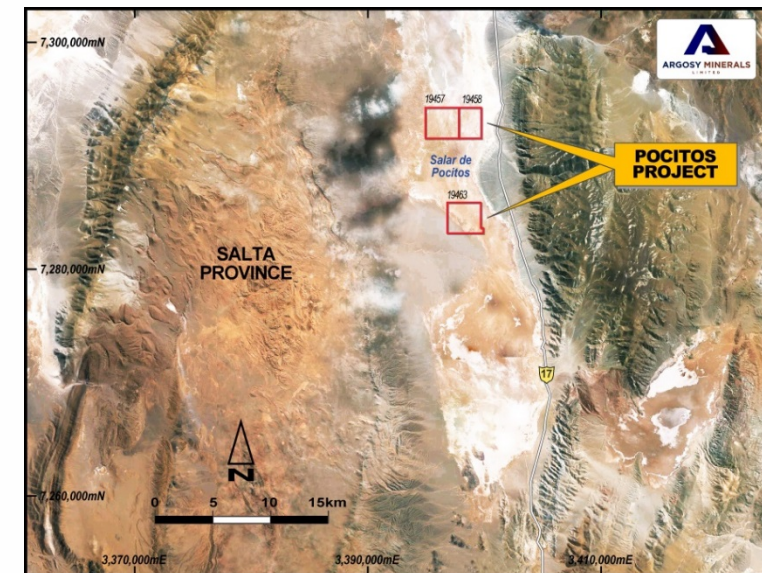
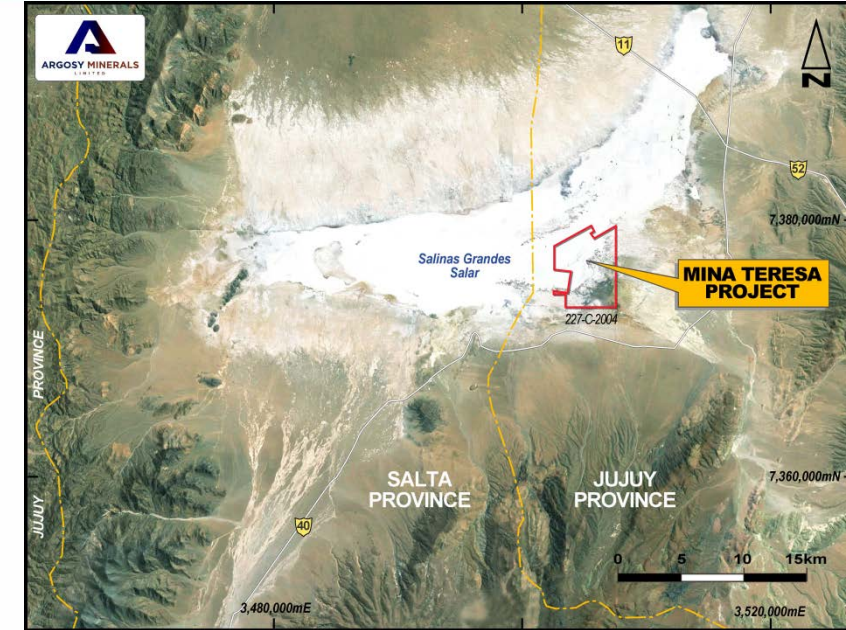




# Other Projects in the "Lithium Triangle"

## Targeting delineation of JORC Resources

- **Mina Teresa Project:** promising historical sample values, further test-work required to determine potential production strategies
  - *Potential to add as a second production hub*
- **Pocitos Project:** targeting near-term trenching/pitting/sampling program to prioritise drill-hole selection plan, assisted by acquisition of geophysical data
- Option Agreement in place to purchase 100% interest in the Projects
- Initial exploration program to comprise:
  - ✓ ***Historical Review:** Historical data compiled and reviewed by independent hydrogeologist for Pocitos Project*
  - *Upon receipt of regulatory approvals and permits;*
  - ***Stage 1 Exploration Works:** Trenching/sampling program, targeting delineation of a JORC Inferred Resource*
  - ***Stage 2 Exploration Works:** Geophysical surveying and drilling targeting an updated JORC Resource*
  - ***Development Works:** Pending success of exploration program, Argosy may conduct pilot plant scale test-work to produce lithium carbonate*

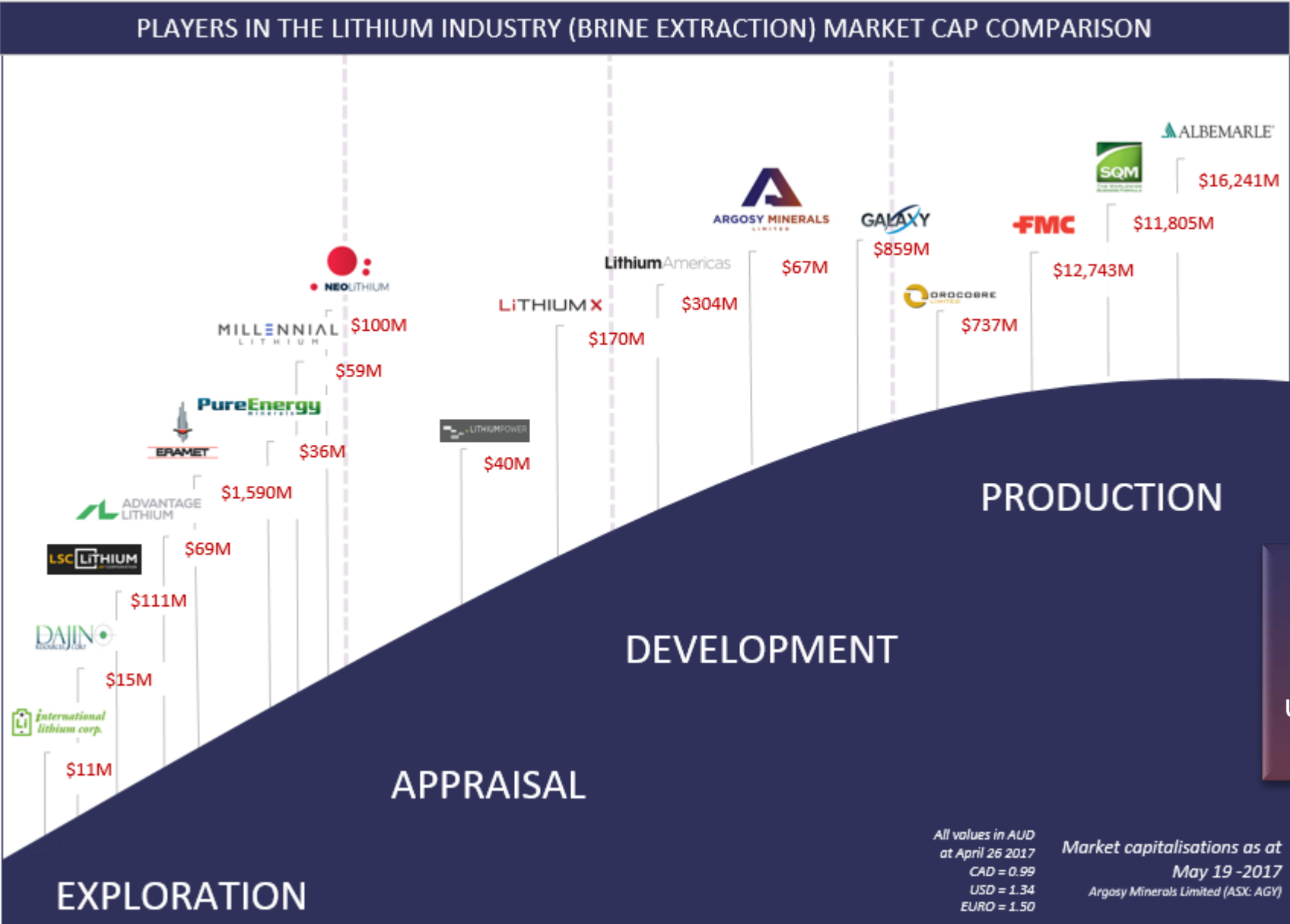




# Market Cap Peer Comparison



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The data suggests Argosy Minerals is significantly undervalued compared to its peers

# Investment Summary

- Multiple projects in the world-class “Lithium Triangle” – the world’s dominant source of lithium production
- Focus on lower cost brines vs. hard rock production
- Fast-track development at Rincon Project commenced – first brines concentrating in ponds and preparation for plant construction underway
- Pre-eminent lithium processing expert Pablo Alurralde to manage Rincon Project
- Stage 1 to produce LCE product (up to 100 – 150 tonnes) at Rincon Project funded and in progress
- MOU’s signed for potential investment to fund and fast-track Stage 2 development works (up to 1000 – 1500tpa) at Rincon Project
- Argentina – open for business

Rincon Project – Stage 1 Evaporation Ponds



On the fast track to lithium production in Argentina





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# Appendix

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# Argentina: Re-connecting with the Global Economy

*Positive macro-economic developments underpin strong growth outlook*

- New President (Mauricio Macri) and new Government elected in December 2015
- Most export duties and trade controls abolished:
  - *Removal of 5% duty on high grade lithium and refined boron products*
  - *Removal of 10% duty on boron mineral concentrates*
- Exchange rate and capital controls eliminated
- Recently settled outstanding claims from 2003 default and returned to global capital markets
- American Chamber of Commerce in Argentina said US firms would invest US\$2.3 billion in Argentina over the next 18 months



# Lithium – The Perfect Storm of Demand and Supply

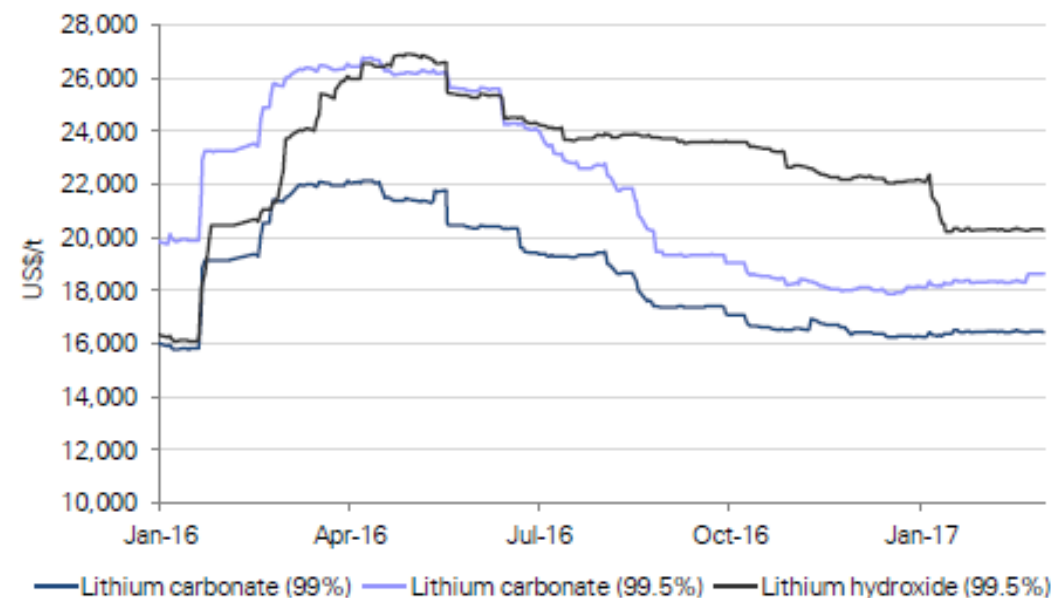
*"Lithium is the new gasoline"*



## The Keys to Lithium Growth

- Lower lithium-ion battery costs (now down to around US\$200-kWhr) set to make electric vehicles (EVs) more affordable
- Several experts such as Tony Seba (in his video on "clean energy disruption") expect EVs to be cheaper than Internal Combustion Energy (ICE) cars by 2020
- Adoption of EV technology set to increase for cars, buses and bikes – aided by falling unit costs, improving technologies, longer range and more charging networks
- Energy storage using lithium batteries becoming more popular

Figure 16: Spot lithium carbonate and hydroxide pricing



Source: Asian Metals, Factset

## Goldman Sachs December 2015 report: "...lithium is the new gasoline"

- Total lithium demand today is 160,000mT of lithium carbonate equivalent (LCE) per year
- For every 1% increase in battery electric vehicle (BEV) penetration, there is an increase in lithium demand by around 70,000mT of LCE/year



# Lithium...Why?

Ask the Experts

## *Tesla Shakes Up Market for Lithium*

- 'In order to produce half a million cars a year...we would basically need to absorb the entire world's lithium-ion production,' Elon Musk said in March.

## *Lithium-Ion Will Be Tough To Beat, Says Argonne Battery Whiz*

- Put four years into a five-year effort to develop a better battery at Argonne National Laboratory, one Argonne engineer concedes Li-ion will be tough to beat in the marketplace. "It's just going to be incredibly difficult for other battery technologies to catch up with it," said Kevin Gallagher, an electrochemical engineer, in an appearance at the University of Chicago in May 2016. "I think that's the lesson that a lot of new battery technologies are learning—definitely."

## *Rio Tinto sees a battery-powered future*

- Rio Tinto believes Powerwall batteries also loom as another shape-shifter for new energy materials markets, according to the Australian Financial Review.

## *"India Wants To Become First Country With 100 Percent Electric Vehicles by 2030"*

- Tech Times, 28/3/2016

## *Battery-hungry World Turns to South America's 'Lithium Triangle'*

- In addition to Tesla, traditional car companies including Nissan and BMW operate in the burgeoning electric vehicle industry. Germany's Daimler recently announced it would build a new lithium-ion battery factory, while technology firms like Samsung and Foxconn are also key users. As prices rise, they are keen to lock in deals.



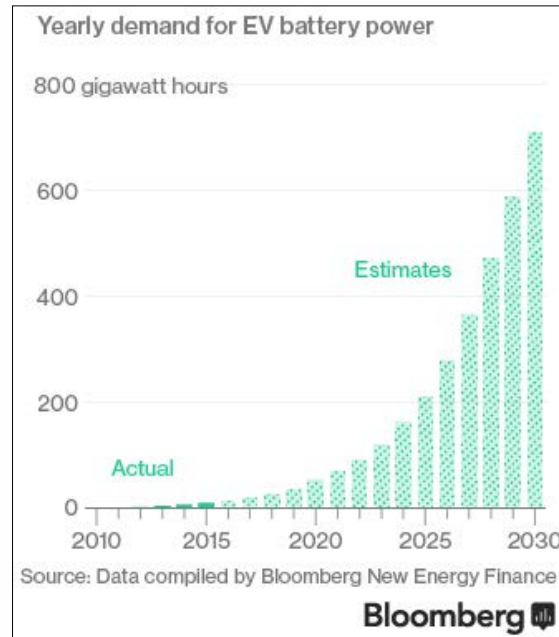
# Lithium – The Perfect Storm of Demand and Supply

*"Lithium is the new gasoline"*

## Lithium Demand Forecasts to 2025

- Goldman Sachs – "Growth in EV applications alone could triple the size of the entire lithium market from 160,000 mt today to 470,000 mt by 2025. That is based on 22% EV penetration (BEV, PHEV and HEV combined) in 2025 from under 3% today."
- Deutsche Bank in its "Lithium-ion age" stated, "Global battery consumption is set to increase 5x over the next 10 years, placing pressure on the battery supply chain and lithium market. We expect global lithium demand will increase from 181kt Lithium Carbonate Equivalent (LCE) in 2015 to 535kt LCE by 2025."
- Summary of expected lithium carbonate demand to 2025:

|               | 2015 LCE demand (tonnes) | 2025 LCE demand (tonnes) | LCE increase (tonnes) | % increase |
|---------------|--------------------------|--------------------------|-----------------------|------------|
| Goldman Sachs | 160,000                  | 470,000                  | 310,000               | 194%       |
| Deutsche Bank | 181,000                  | 535,000                  | 354,000               | 195%       |







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