



**ARGOSY MINERALS**  
LIMITED

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7 December 2016

The Manager  
ASX Market Announcements  
Australian Securities Exchange Limited

Dear Sir/Madam

**Investor Presentation – Shenzhen Global Chinese Financial Forum**

Please find attached a copy of the Company's Investor Presentation document forming part of an investor roadshow being conducted over the next few days in China.

Yours faithfully

Andrea Betti  
Non-Executive Director  
Company Secretary

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

Global Chinese Financial Forum - Shenzhen  
Investor Presentation December 2016

ASX Code: AGY



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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*



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- Advanced lithium brine projects in world's most prolific lithium producing region – the “Lithium Triangle” in Argentina:
  - *Rincon* – JV with pre-eminent lithium processing expert Pablo Alurralde, with well-defined pathway to production, located in Salar del Rincon
  - *Mina Teresa* – located adjacent to Orocobre (ASX: ORE) concessions in Salinas Grandes Salar
  - *Pocitos* – previously explored with historical values of lithium and boron, located in Salar de Pocitos
- Fast track to demonstrate production of clean commercial grade lithium carbonate
  - *Fully funded lab-scale pilot plant in development for Rincon Project*
- High-quality regional and site infrastructure (electrical power, natural gas, rail & port facilities) facilitating project development
- Extensive technical expertise in-house and Argentinian lithium professionals
  - *Access to quality laboratory and pilot plant equipment*
- Strong upcoming news-flow on pilot plant development test-work progress for Rincon, and additional exploration results from other AGY projects



# Corporate Overview



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Corporate Structure	
ASX Code:	AGY
Shares on Issue	744.75M
Options on Issue	12.5M exercisable at \$0.09, expiring 13/6/2017
Share Price	2.4c (@ 5/12/2016)
Market Capitalisation	\$17.9M (@ 2.4 cents)
Cash	~\$3m (November 2016)
Significant Shareholders	Directors & Management ~15%



6-month share price



# 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.

## Andrea Betti – Non-Executive Director, Company Secretary

Ms. Betti is an accounting and corporate governance professional with over 18 year experience in accounting, corporate governance, finance and corporate banking.

## Pablo Alurralde – President Rincon JV Project



# Lithium 101: brine vs. hard-rock production

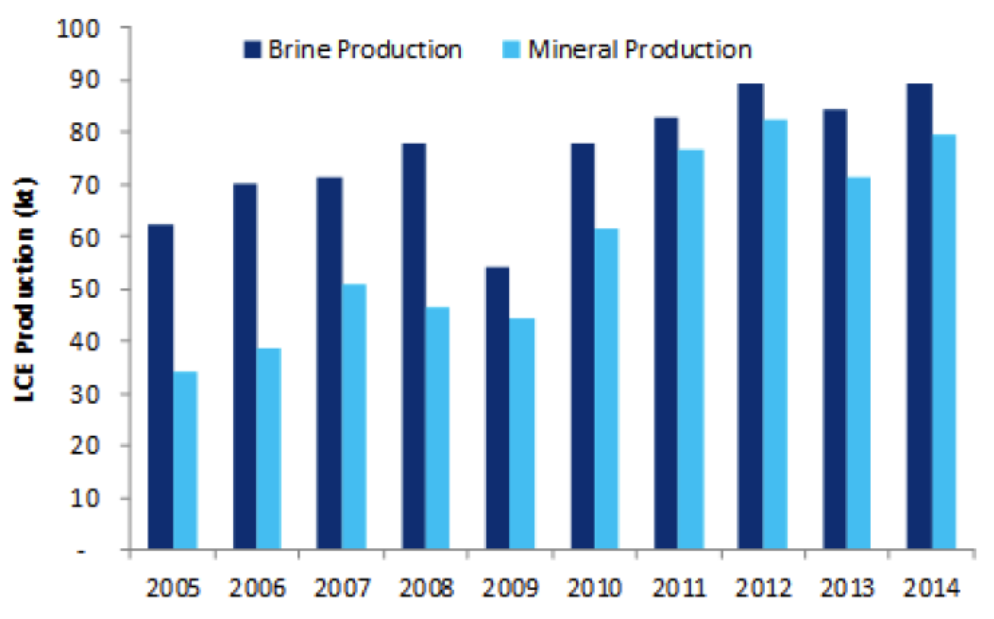
Most lithium production comes from lower cost brine production



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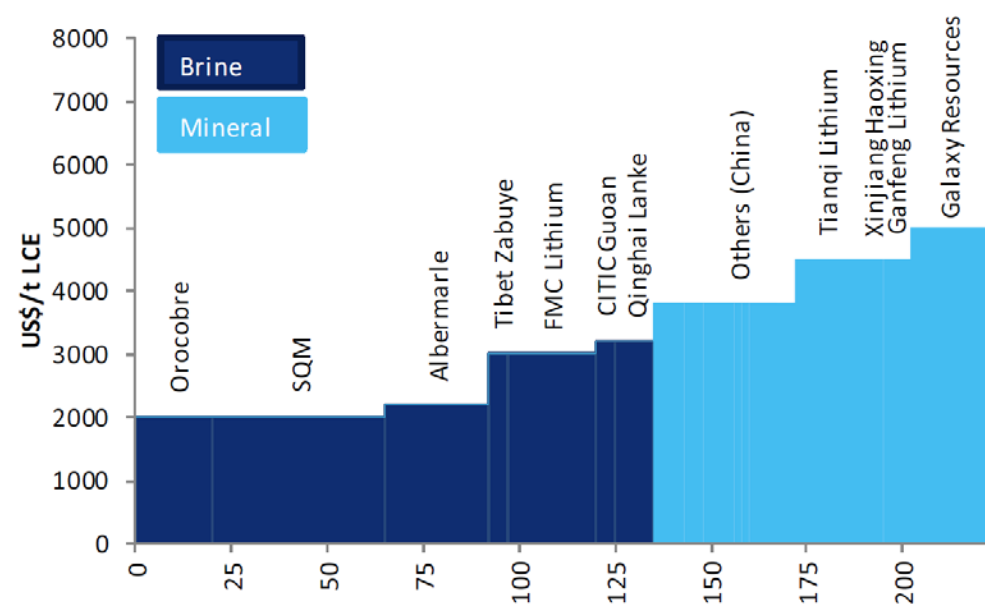
- Global lithium production predominantly delivered from brines
- Significantly lower extraction cost than hard rock lithium deposits

Figure 38. Lithium production by deposit style.



Source: Company Reports, Roskill, Citi Research

Figure 41. Lithium Cost Curve (by Capacity, not Production)



Source: Citi Research, Company Reports, Roskill

Argosy is focusing on brine projects with the potential to have very low capital and operating costs.

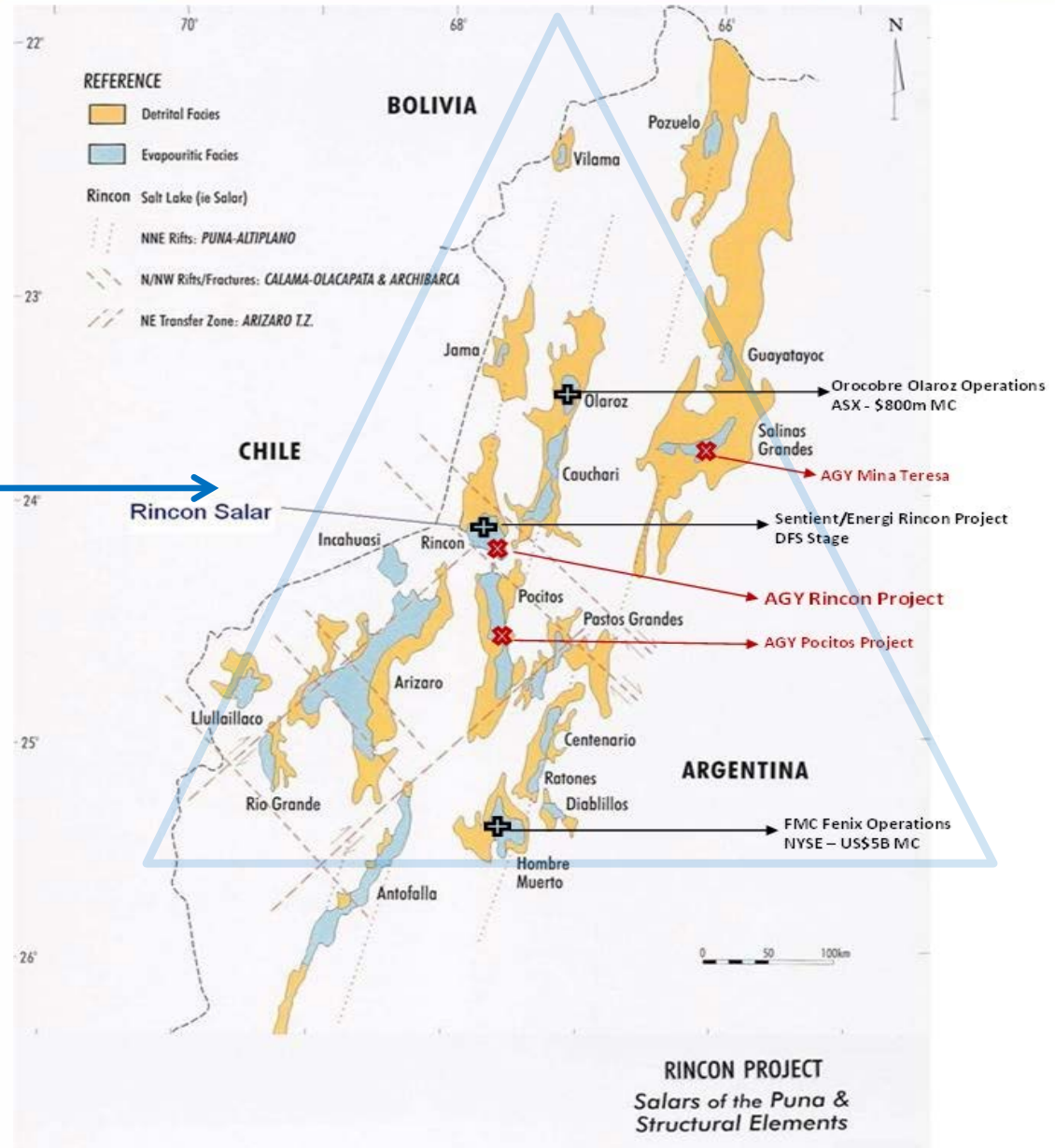
# Argosy in the "Lithium Triangle"

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





# Rincon Project: Recent History and Overview

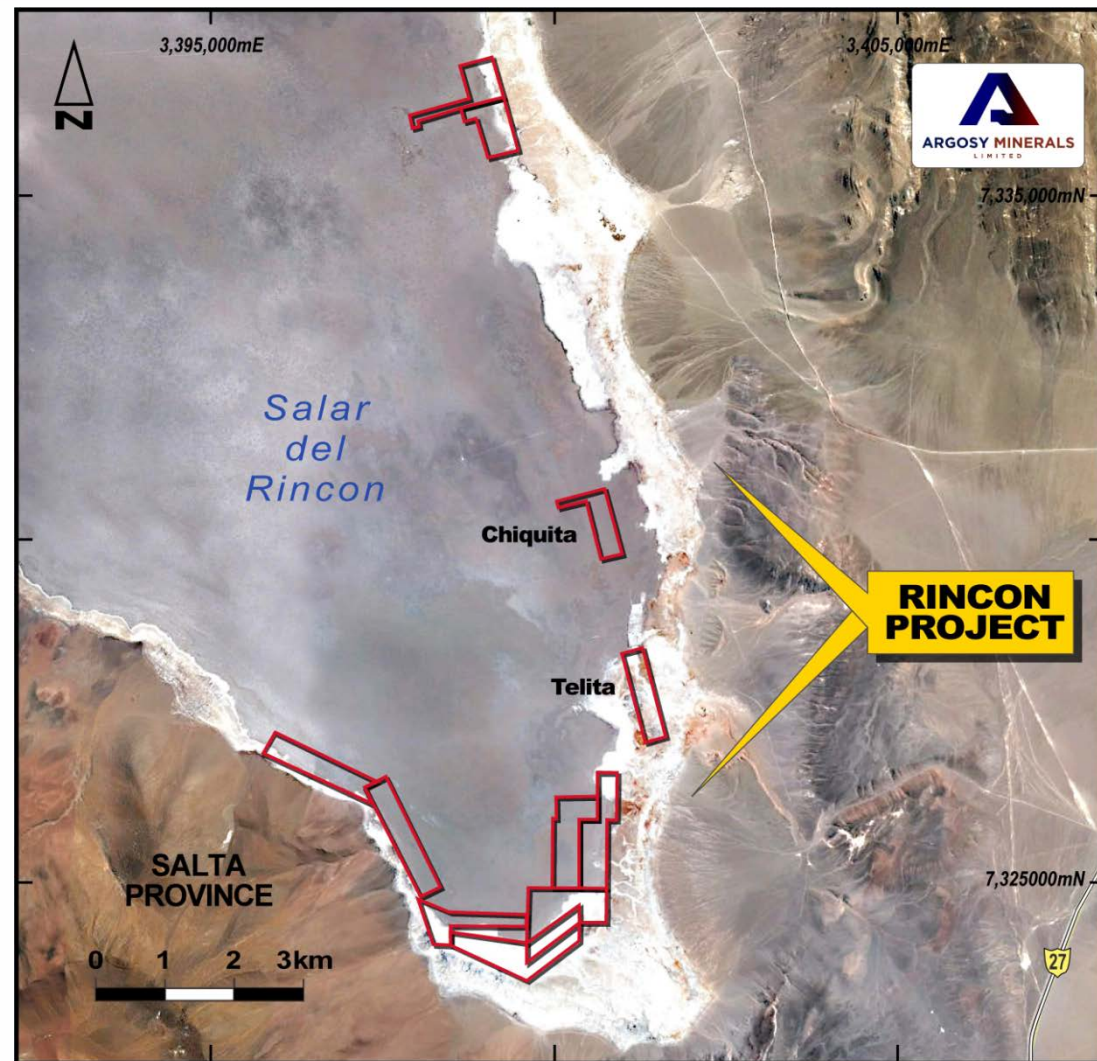
*A significant opportunity to achieve near-term lithium production*



- 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 654Ha 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 piezométrico	(Sample depth (m))				
	10	20	30	40	50
	Li <sup>+</sup> (mg/l)				
FPR 1001	456	397	409		
FPR 1002	401	400	392	334	
FPR 2001	385	369	345	337	
FPR 2002	393	395	379	338	
FPR 3001	388	361	369	380	
FPR 3002	417	418	415	383	376
FPR 4001	394	426	390	427	370
FPR 4002	427	438	389	401	
FPR 5001	383	405	393	390	384
FPR 5002	444	456	449	408	453
FPR 6001	410	414	446	435	
FPR 6002	436	423	390	372	
FPR 7001	370	364	369	349	
FPR 7002	434	407	388	372	
(Average) Media aritmética	397 mg/l				

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



Rincon Project Location Map



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# 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 average rainfall of less than 5mm per year.
- 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.



Salar del Rincon (looking southwards)



Pocitos industrial site

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# 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 1,500 tpa LCE

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

Full commercial LCE production

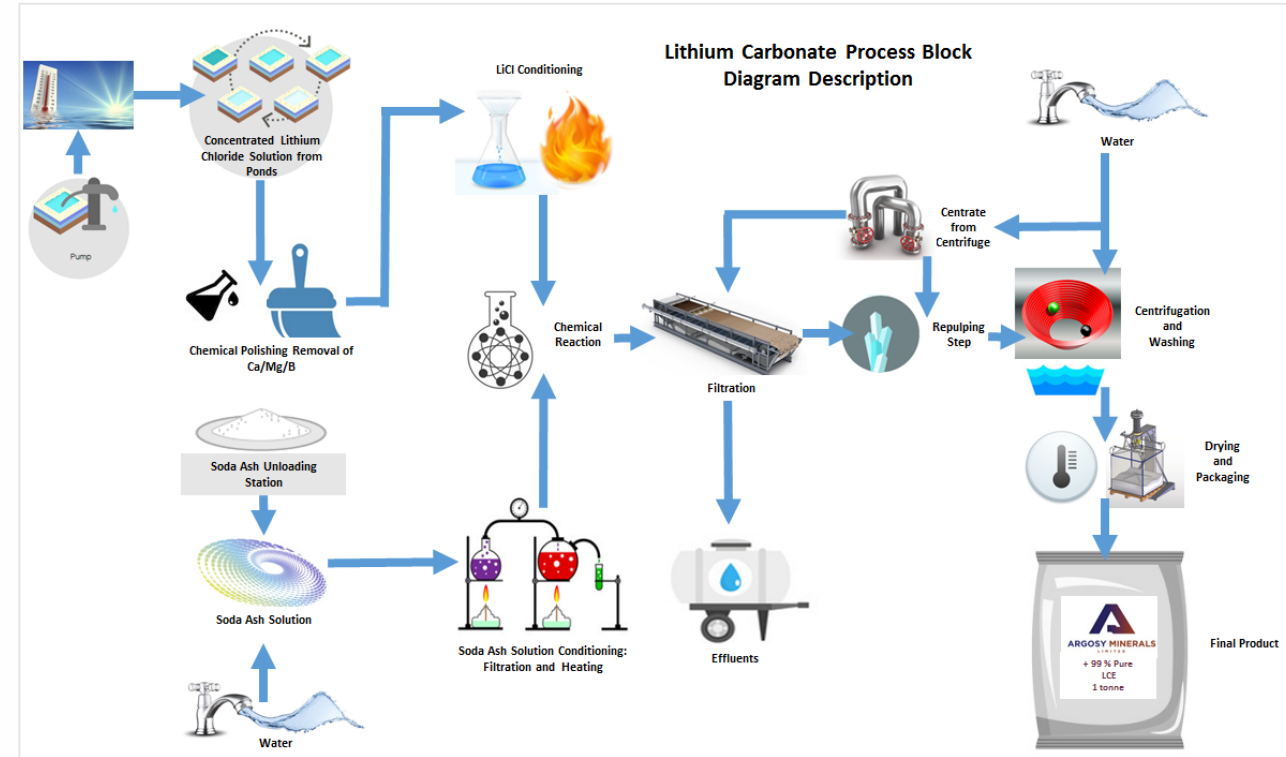
Stage 1 Works Schedule	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18
Environmental studies and regulatory approvals/permits	█					
Pond construction and associated works, including contractor tendering	█	█				
Pond lining and associated works		█	█			
Brine extraction, pumping, storage and transportation 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: Key Partners & Expertise

*Pablo Alurralde & Process Flow Sheet*



- For personal use only
- 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

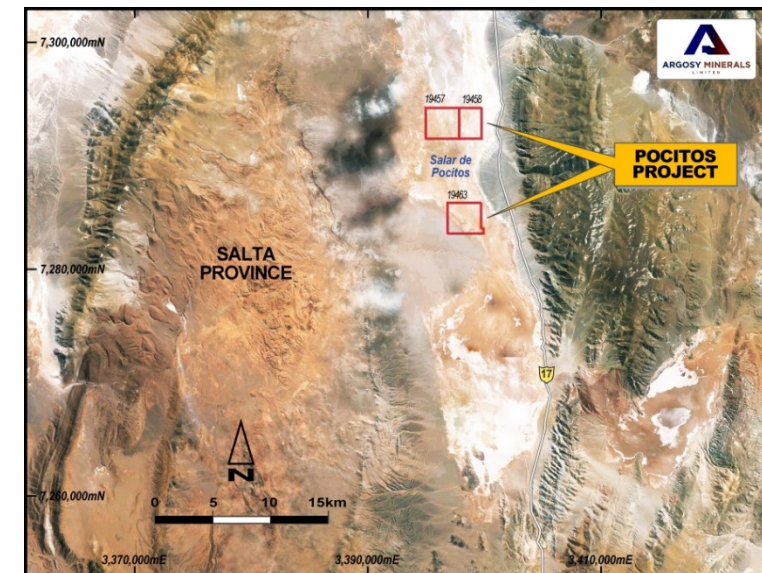
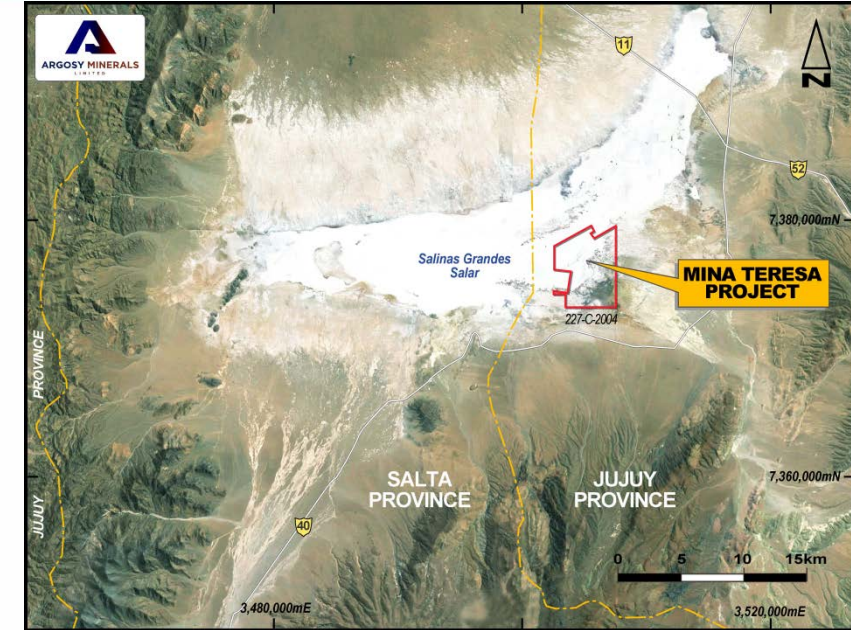


Rincon Project Process Flow Sheet

# 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
- **Pocitos Project:** targeting near-term trenching/pitting/sampling program to prioritise drill-hole selection plan, assisted by acquisition of geophysical data
- Initial exploration program to comprise:
  - ✓ **Historical Review:** Historical data compiled and reviewed by independent hydrogeologist for Pocitos Project
  - **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



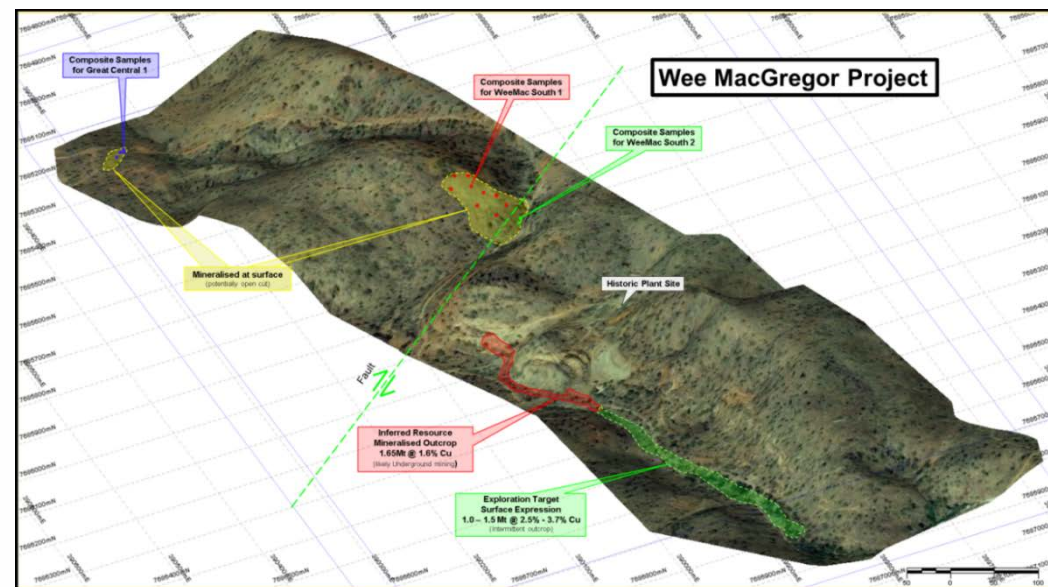
# Australian Projects

A strong lithium and copper-gold (& cobalt) project pipeline in Australia

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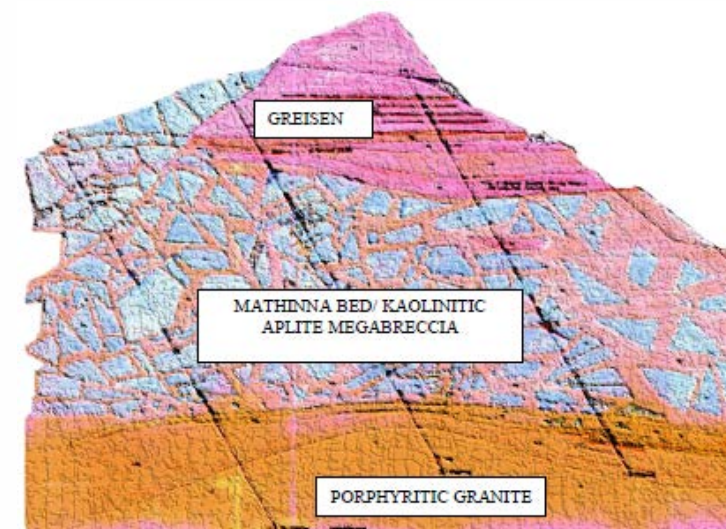
## Copper-Gold-Cobalt – Queensland

- Wee MacGregor Project: JORC 2012 compliant Mineral Resource estimate completed
- Right to earn up to an 80% interest in the Project pursuant to the terms of farm-in and joint venture agreement



## Lithium (hardrock) – Tasmania

- Mt Paris Project: Extensive greisen field, targeting Cinovec-style lithium deposit
- Exclusive two-year option period to acquire 100% interest (to Feb 2018)



Mt Paris Mine cross section (after Winnall 1981)

# Investment Summary



- Strategically positioned for strong, long-term growth in lithium
- A significant opportunity to achieve near-term lithium production, with well-defined development pathway at Rincon Project
- Strategic focus on the world-class “Lithium Triangle” – one of the world’s dominant sources of low-cost lithium production
- Lithium brine projects are at the low end of the cost curve compared with hard rock deposits
- Pre-eminent lithium processing expert Pablo Alurralde to manage Rincon Project
- Funded for Stage 1 fast-track development strategy to produce LCE (up to 100 – 150 tonnes) at Rincon Project
- Argentina – open for business



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*



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- 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

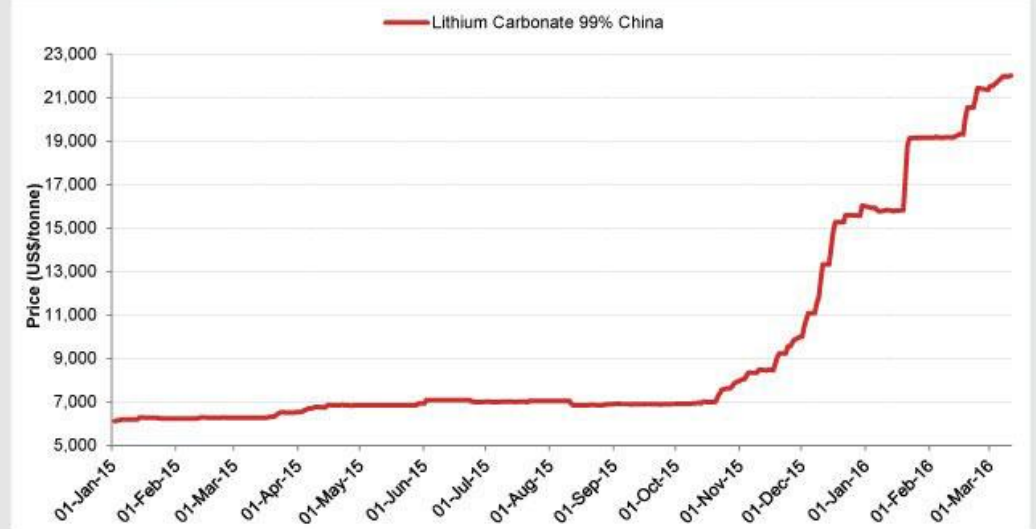
- Lower lithium-ion battery costs (now down to around US\$200-kWhr) set to make electric vehicles (EVs) more affordable
- Several experts such as Tony Seba (in his video on "clean energy disruption") expect EVs to be cheaper than Internal Combustion Energy (ICE) cars by 2020
- Adoption of EV technology 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

## 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 Carbonate Price in China

### Lithium price



Data as of March 11, 2016.  
Source: Thomson Reuters

# 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.



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# Lithium – The Perfect Storm of Demand and Supply

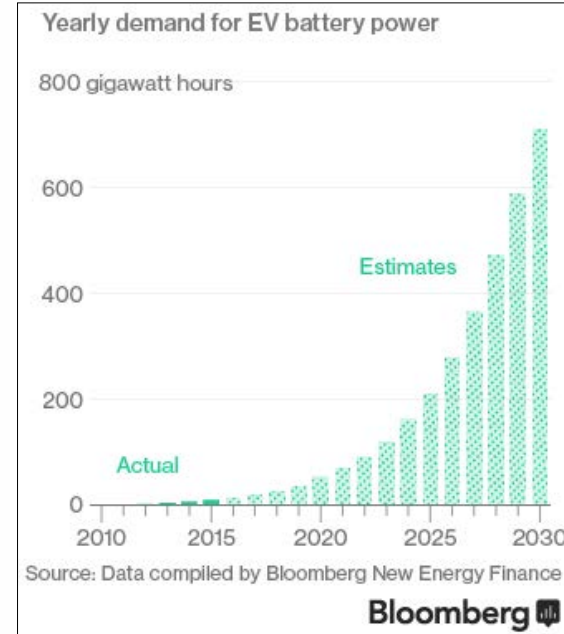
*“Lithium is the new gasoline”*



## 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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## Contact Us

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