



*Charging forward
with Lithium*

SINGAPORE MINING CLUB
Lithium and Battery Day

1 September 2016

***Pilgangoora Lithium:
An Emerging Lithium Project***

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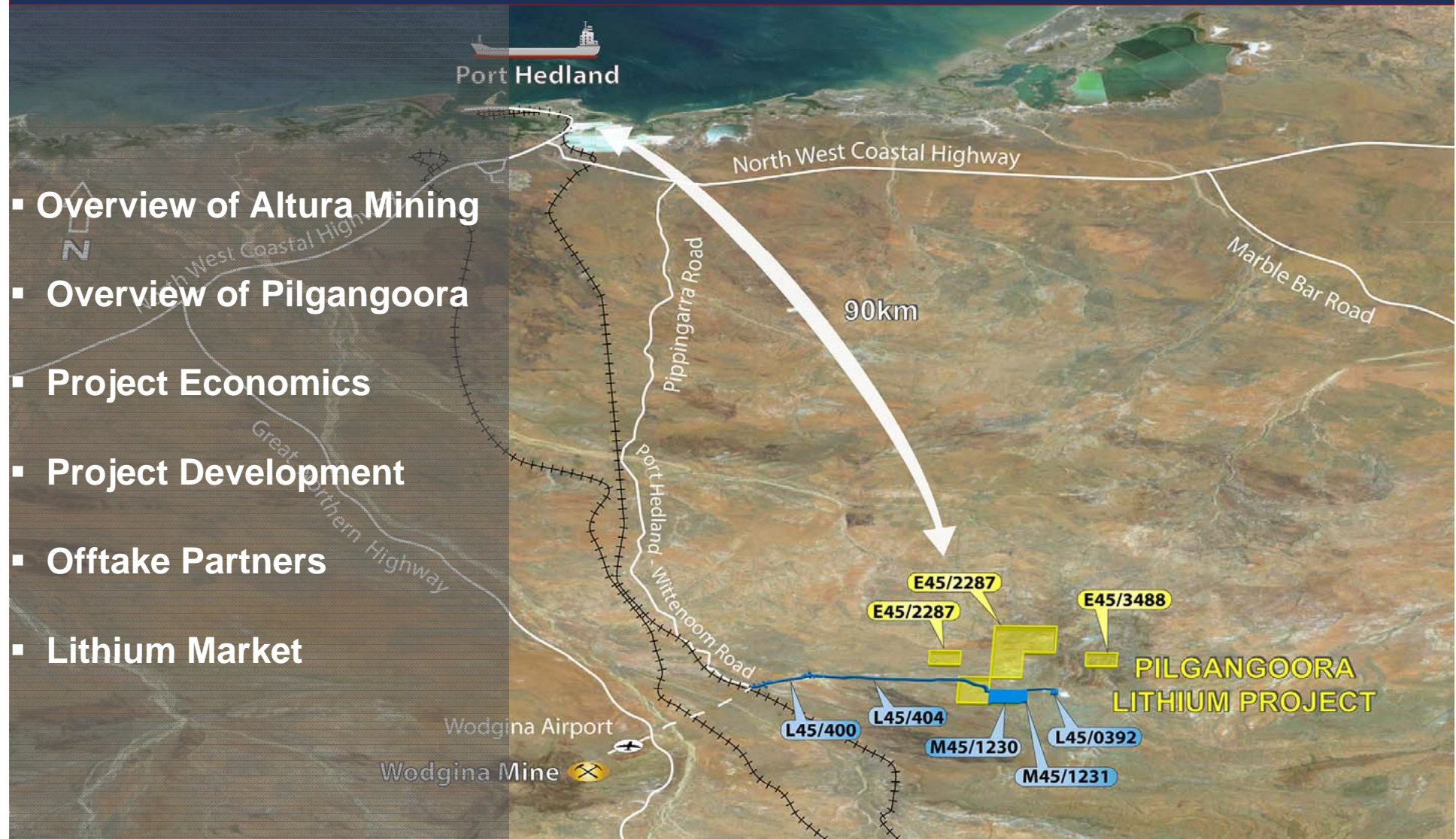
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Presentation Summary



- Overview of Altura Mining
- Overview of Pilgangoora
- Project Economics
- Project Development
- Offtake Partners
- Lithium Market



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Overview of Altura Mining



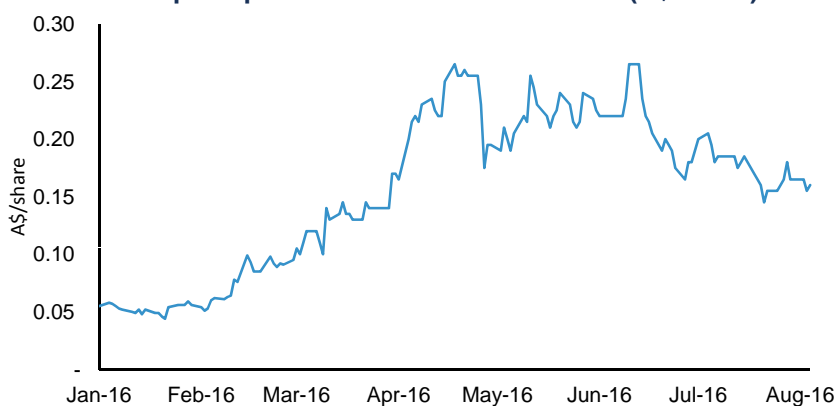
Altura Mining Limited (ASX:AJM) is an emerging low-cost developer of lithium concentrates with its 100% owned Pilgangoora project. Altura has a market capitalisation of approximately A\$170m

Altura's flagship project is the world class Pilgangoora hard-rock lithium project located in the Pilbara region of Western Australia. The Company completed a Feasibility Study in early 2016 and is focussed on the completion of the Definitive Feasibility Study (targeted for early September), with the construction of the mine planned to start in Q4 2016 and production expected to commence in Q4 2017

Additionally, Altura has other non-core coal assets in Indonesia, which as previously announced by the Company, it intends to divest .

Capital Structure (as at 30 August 2016)	AUD
Shares on issue	1,231.8M
Share price	\$0.14
Market capitalisation	\$172M
Cash (end June 2016)	\$22M

Altura share price performance since 1 Jan 2016 (A\$/share)



Source: IRESS as at 4 August 2016

Board and Management



Altura's Directors and Management have extensive mining experience and demonstrated capacities in identifying and commercialising ore bodies across various commodities and jurisdictions.

Altura is a Mining Company run by Mining People.

Mr James Brown (Managing Director) Mr Brown is a Mining Engineer with extensive operational and development experience in the mining industry, including 22 years at New Hope Corporation. James was appointed Managing Director of Altura in September 2010 having previously been the Group General Manager since December 2008.

Mr Paul Mantell (Executive Director/CFO) Mr Mantell is a qualified accountant with in excess of 30 years corporate experience in the mining and associated industries, including 28 years at New Hope Corporation (ASX: NHC), the last 12 years as its' Chief Financial Officer. He was appointed a Director in May 2009.

Mr Allan Buckler (Non Executive Director) Mr Buckler has over 40 years experience in the mining industry and has been directly responsible for the commercialisation of several projects from resource identification through to production. He is a former Director and Chief Operations Officer of New Hope Corporation, and was appointed a Director of Altura in December 2008.

Mr Dan O'Neill (Non Executive Director) Mr O'Neill is an exploration geologist with over 30 years' international mining experience across various commodities, across Australasia, Africa, Asia and North America. Mr O'Neill was a founding director of current Lithium producer Orocobre (ASX: ORE). He was appointed a Director in December 2008.

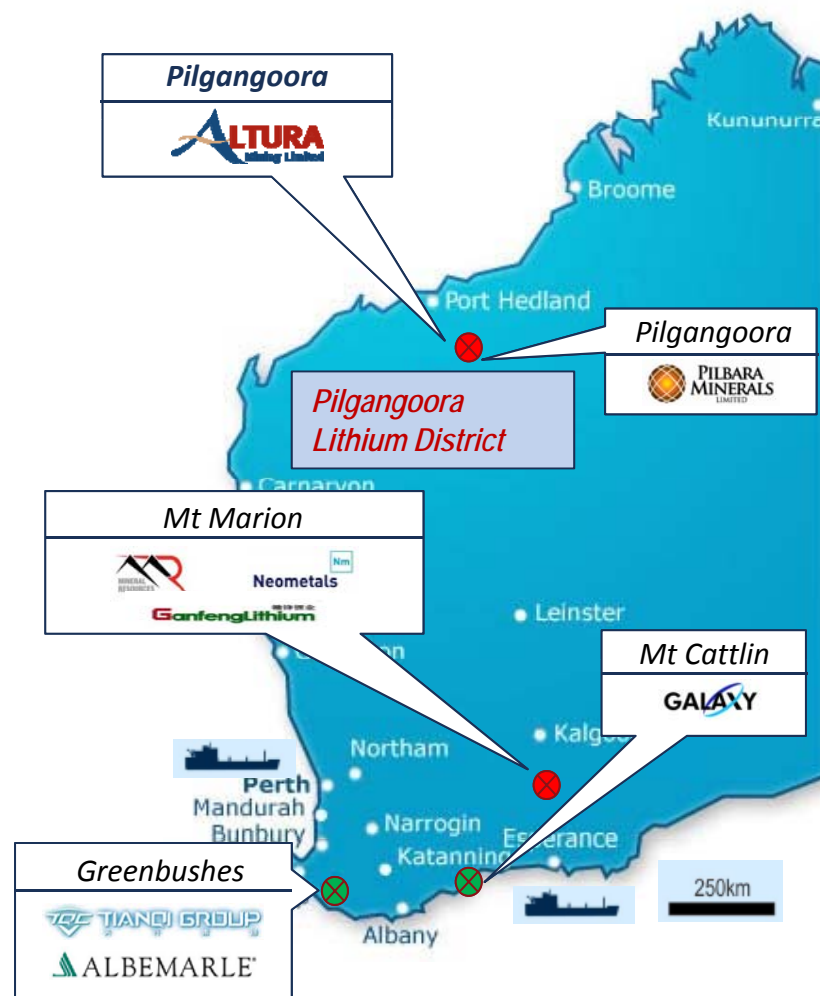
Mr BT Kuan (Non Executive Director) Mr Kuan is a mechanical engineer with considerable experience in logistics specifically the development and management of bulk handling and terminal operations. He was appointed a Director in November 2007.

Mr Chris Evans (General Manager - Operations) Mr Evans is an experienced civil engineer and project manager. Prior to commencing at Altura, Mr Evans was Project Manager for the Mt Webber mine development for Atlas Iron delivering to an aggressive timetable.

Overview of Pilgangoora



- Pilgangoora is a world class low cost lithium project located in the Pilbara region of Western Australia, expected to start producing spodumene concentrate by end of 2017
- Altura's 100% owned Pilgangoora will be the fourth producing lithium mine in Australia
- Feasibility study for Pilgangoora was completed in early 2016 identifying 36Mt of resource at 1.05% Li_2O and 18.5Mt of reserves at 1.07% Li_2O *
- The Pilgangoora deposit will be extracted by open pit methods enhanced by the shallow and thick mineralisation allowing spodumene ore to be extracted from the commencement of mining
- Based on the Feasibility Study, Pilgangoora will have a mine life of 14 years based on current reserves, producing an average of 215ktpa of 6% spodumene concentrate at a low cash cost of ~\$298/t FOB

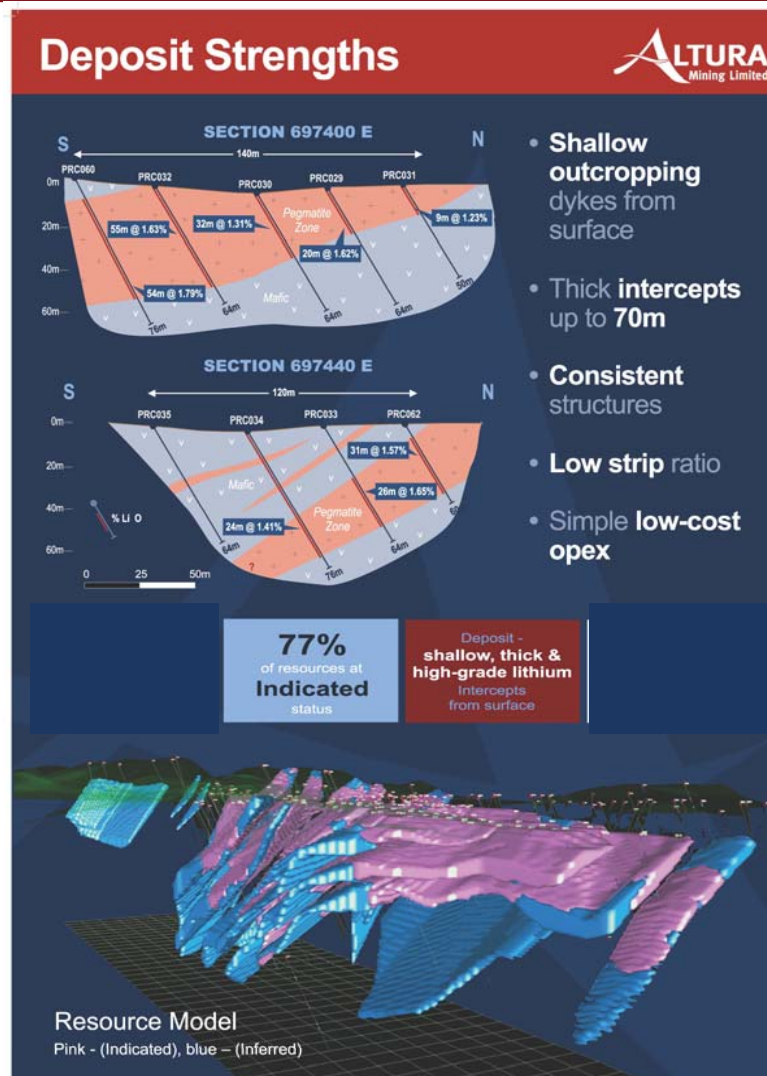


*Refer to ASX announcement 11 February 2016 and 11 April 2016

Overview of Pilgangoora



- The Definitive Feasibility Study (DFS) is expected to be completed in early-September 2016
- Altura has entered into a binding offtake agreement for a 5 year period to supply a minimum of 100ktpa of spodumene concentrate to Lionergy (a Chinese downstream processing group)
- The Company also has a non-binding agreement with another Chinese Group, OptimumNano for a further 100-150ktpa
- Additionally, Altura has an extensive tenement holding in Pilgangoora and believes there is considerable upside for the project (the Company is currently engaged in drilling on-site for further exploration)



Reserve and Resource estimates



- The Reserve and Resource estimates below is based on the Feasibility Study
- A revised Reserve and Resource estimate will be included as part of the DFS expected to be completed in early-September 2016

JORC Category	Cut-off Li ₂ O (%)	Tonnes (Mt)	Li ₂ O (%)	Fe ₂ O ₃ (%)	Contained Li ₂ O (tonnes)
Measured	0.40	-	-	-	-
Indicated	0.40	26.70	1.05	1.73	280,000
Inferred	0.40	9.00	1.02	1.68	92,000
Total Resource	0.40	35.70	1.05	1.72	372,000
Proved	0.40	-	-	-	-
Probable	0.40	18.47	1.07	1.70	198,000
Total Reserve	0.40	18.47	1.07	1.70	198,000

*Refer to ASX announcement 11 February 2016 and 11 April 2016

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Project Economics



Altura Pilgangoora Lithium Project FS Key Results*

Description	Units	FS Results
Average Annual Ore Feed to Plant	Mtpa	1.4
Total Ore Mined	Mt	18.47
Average Annual Spodumene Concentrate Production (Years 1-12 @ 6% Li ₂ O)	tonnes	215,000
Life of Mine (LOM)	years	14
Total Spodumene Concentrate Produced	Mt	2.74
LOM Strip Ratio	waste:ore	2.7:1
Spodumene Concentrate Market Price	US\$	494
Capital Cost Estimate	A\$M	129.3
Total Net Revenue	A\$M	1,562
Project EBITDA	A\$M	774
Total C1 Cash Cost *	A\$M	690
Total Cash Cost FOB / tonne product **	A\$	297.90
Net Present Value (NPV) pre-tax	A\$M	382
Internal Rate of Return (IRR)	%	59.5
Discount Rate	%	10
Project payback period	years	1.7
Exchange Rate	AUD/USD	0.75

*C1 Cash Costs are defined as the costs of mining, milling and concentrating, onsite administration and general expenses, property and production royalties not related to revenues or profits, metal concentrate treatment charges, and freight and marketing costs less the net value of the by-product credits.

** Total Cash Cost FOB/tonne product are defined as all cash costs to free on board, including deferred capital expenditure, but excluding interest, tax and depreciation.

- The Feasibility Study highlighted a highly attractively project with a long mine life of 14 years, producing an average of 215ktpa of spodumene concentrate over the first 12 years at a low cash cost of A\$298/t
- Even assuming a spodumene concentrate price of US\$494/t (compared with recent sales prices of approx. US\$600/t), the project has an assessed pre-tax NPV of over A\$380m
- Altura expects the Definitive Feasibility Study (targeted for completion in early-September 2016) to further extend the mine life of Pilgangoora

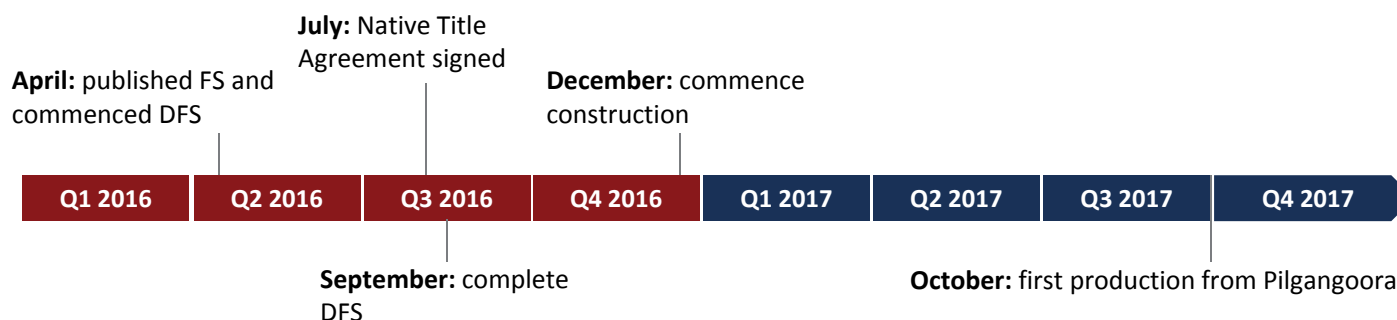
*Refer to ASX announcement 11 April 2016

Project Timeline



The steps to production are anticipated to be as follows:

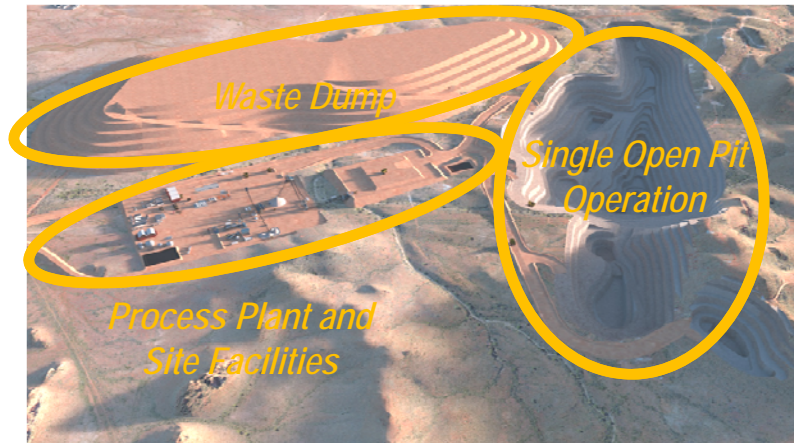
- Deliver Definitive Feasibility Study (DFS) – in early-September 2016
- Obtain grant of Mining Lease (ML) – expected early September 2016
- Progress non-binding MOU with OptimumNano to reach binding agreement and secure offtake close to 100% of planned production
- Lodge Mining Proposal on grant of Mining Lease
- Commence onsite construction on approval of Mining Proposal, planned to occur by December 2016
- Commissioning in 3rd Quarter 2017
- First production of spodumene in 4th Quarter 2017



Pilgangoora – Development



Mine site lay-out



Processing plant



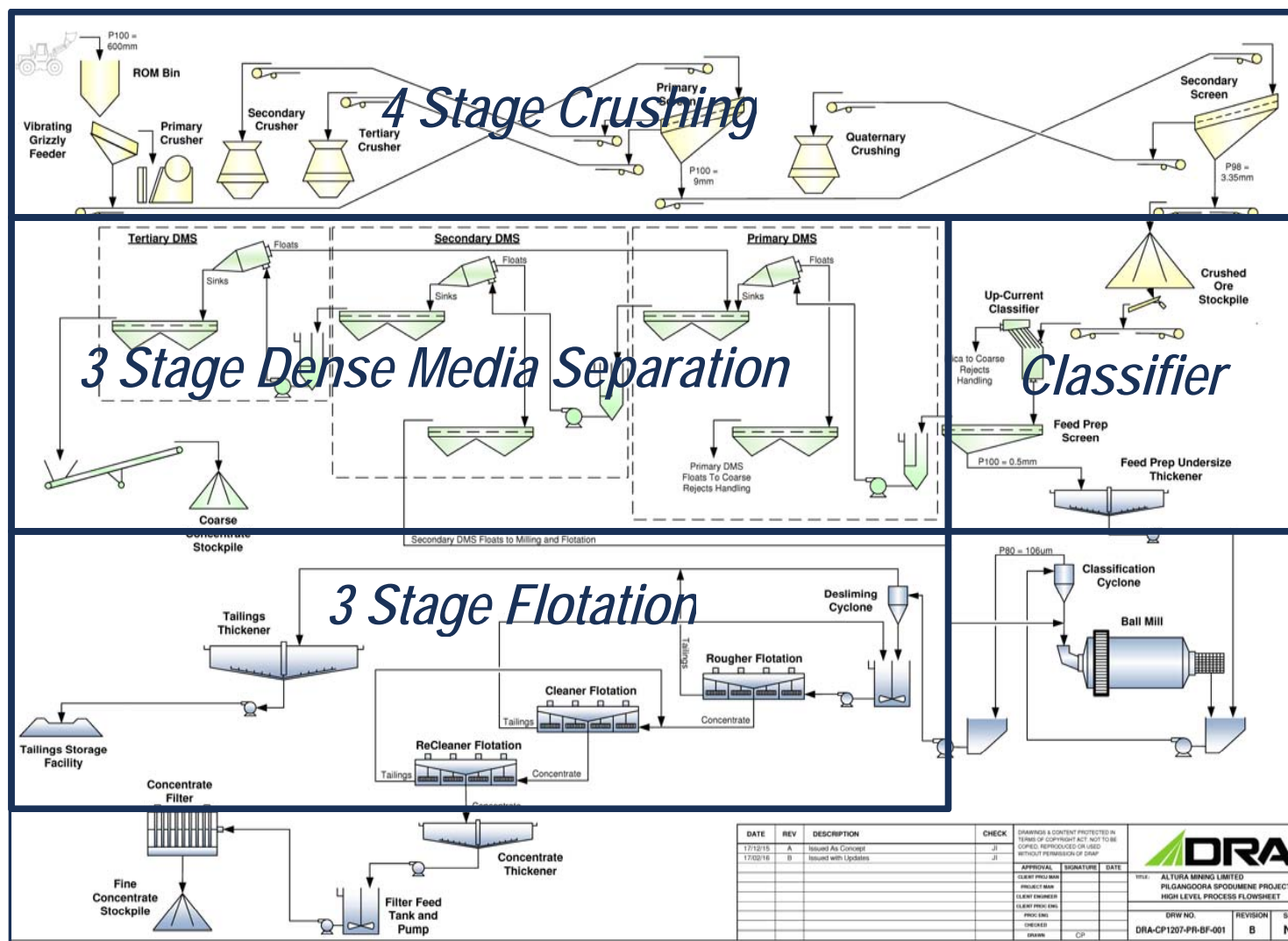
- Mining is uncomplicated as a conventional single open pit and the processing to produce spodumene concentrate is not regarded as a complex procedure
- Proximity to port and existing infrastructure gives the Pilgangoora project a distinct advantage

Easy access to market via 130km road haul to Port Hedland's Utah Point



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Process flowsheet



Note: process flowsheet shown above is as at the Feasibility Study

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Offtake and Partner



Altura and Lionergy

- Binding offtake agreement signed on 22 April 2016 with Chinese based downstream lithium production and investment group Lionergy Limited
- Supply of a minimum 100,000 tonnes of spodumene concentrate annually for an initial 5 year period
- Valuable partnership formed with Lionergy via share placements
- Lionergy has interests in production of lithium iron phosphate (LiFePO_4) or LFP for power battery production in China

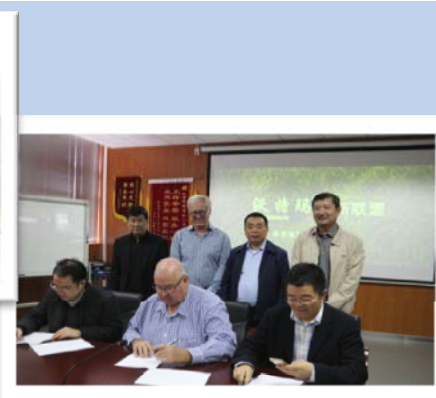


Tripartite MOU for Offtake



Altura - OptimumNano - Lionergy

- Tripartite non-binding MOU for supply of spodumene concentrate to leading Chinese power battery application developer and producer OptimumNano www.optimumnanoenergy.com
- MOU for spodumene concentrate supply of 100,000 – 150,000 tonnes annually – “mine to market” concept
- Lionergy also party to MOU and will focus on downstream spodumene processing for LFP applications



Lithium Market



- The global market for lithium products is very attractive with the supply of raw materials falling behind the emerging demand growth in markets such as China
- A large proportion of the increase in the demand side has been driven by continued fundamental growth on the end user application, with consumption from the transportation sector becoming increasingly evident
- China recently set a target of 5 million electric vehicles to be on the road by 2020 – in comparison, there were reportedly 379,000 sales of electric vehicles in China in 2015
- As part of China's effort to combat pollution, Premier Li Keqiang has been leading key initiatives sponsored by the State Council including support at the policy level for new energy vehicles with tax exemptions and subsidies. The government has also encouraged officials, public institutions and city departments to procure electric vehicles for up to fifty percent of the annual fleet purchases (up from the thirty percent requirement set in July 2015)
- Apart from China, governments in other countries such as Norway and the Netherlands have banned petrol and diesel engine vehicles by 2025 and completed the switchover to electric vehicles. Additionally, India has recently announced a target of 6 million electric vehicles on the road by 2020 and a complete switch over to electric vehicles by 2030
- Aside from electric vehicles, the growth in lithium battery application has grown from segments such as consumer electronics, energy storage systems for commercial and households, etc

Lithium Market



Figure 1: Lithium supply/demand curves

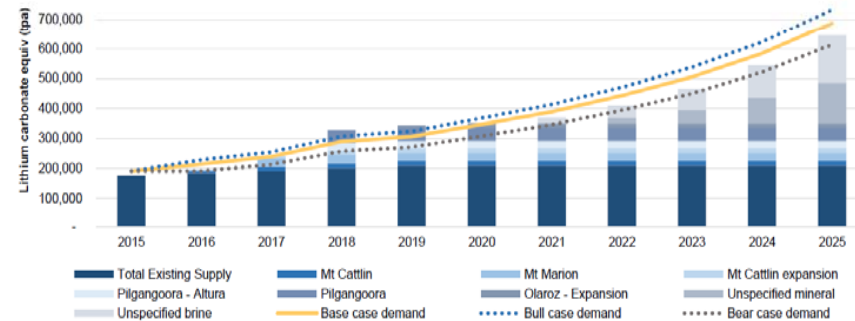
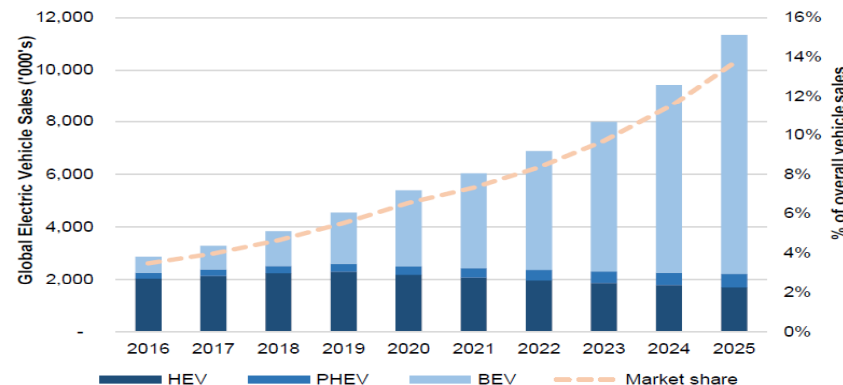


Figure 55: Global Electric Vehicle Sales forecasts



Emerging robust fundamentals for Chemical Grade Concentrate and Lithium markets in general

Broadening set of applications emerging for Lithium Ion Battery technology and there is particular emphasis on next generation electric vehicles (EVs)

Outstanding growth in EV and large EV power battery applications

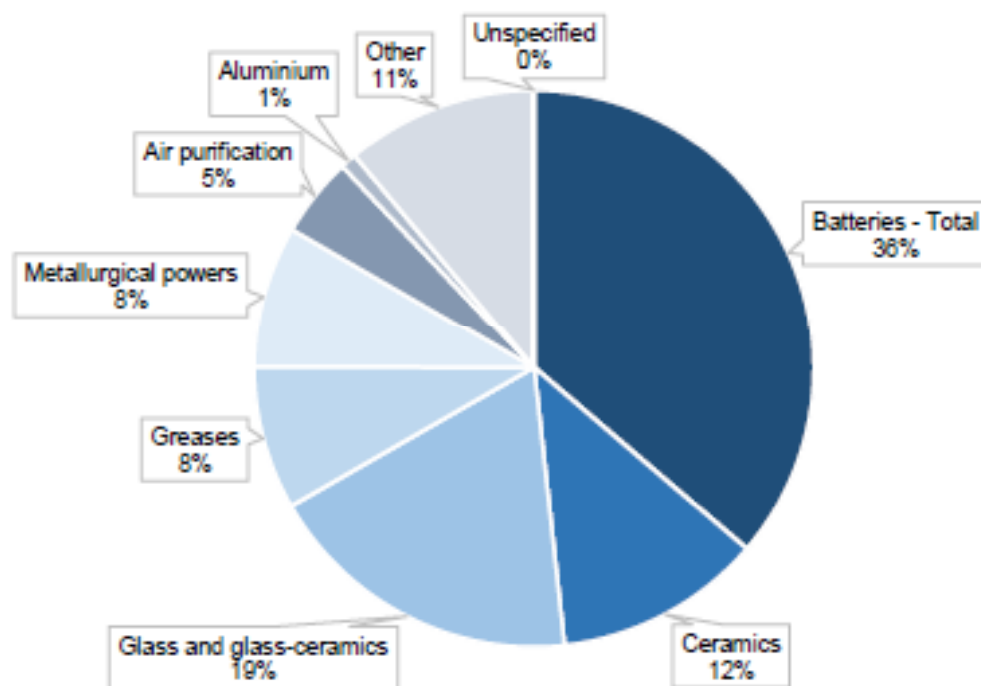
Exciting growth in off peak energy storage for industrial and domestic use via products such as Tesla Powerwall

Established consensus around the need to control urban carbon emissions particularly in Asia

Lithium Market



Applications by sector



Source: Canaccord Genuity

Altura primary product will supply chemical grade lithium feedstock for the rapidly expanding battery production sector

Significant opportunity to capitalise on increasing CAGR in EV battery sector

Significant upheaval in Chemical Grade concentrate markets

Altura plans to enter the market with 215ktpa of 6% Li_2O spodumene concentrate

Offtake partners are leaders in battery production with over 85,000 EV battery systems already in China

Competent Persons Statement



Pilgangoora – Western Australia

The information in this report that relates to the Mineral Resource for the Pilgangoora lithium deposit is based on information compiled by Mr Stephen Hyland and Mr Bryan Bourke. Mr Hyland is a Fellow of the Australasian Institute of Mining and Metallurgy and Mr Bourke is a Member of the Australian Institute of Geoscientists. Mr Hyland is a principal consultant at Ravensgate and has sufficient experience that is relevant to the style of mineralisation under consideration and to the activity of mineral resource estimation to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Bourke is the Exploration Manager of Altura Mining Limited and has had sufficient experience that is relevant to the style of mineralisation and to the type of deposit under consideration to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Hyland and Mr Bourke consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The information in this report that relates to the Ore Reserve for the Pilgangoora lithium deposit is based on information compiled by Mr Jake Fitzsimons. Mr Fitzsimons is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Fitzsimons is a principal consultant at Orelogy Consulting Pty Ltd and has sufficient experience that is relevant to the style of mineralisation under consideration and to the activity of ore reserve estimation to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Fitzsimons consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the ASX announcements on 11 February 2016 and 11 April 2016. Further, all material assumptions and technical parameters underpinning the mineral resource and ore reserve estimates in those announcements continue to apply and have not materially changed.

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