



ANNUAL GENERAL MEETING PRESENTATION

23 NOVEMBER 2016



CAUTIONARY NOTES

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This presentation contains "forward-looking information" within the meaning of applicable securities legislation. Forward-looking information is often characterized by words such as "plan", "expect", "budget", "target", "project", "intend", "believe", "anticipate", "estimate" and other similar words or statements that certain events or conditions "may" or "will" occur. Forward-looking information may include, but is not limited to, the successful ramp-up of the Olaroz Project, and the timing thereof, the design production rate for lithium carbonate at the Olaroz Project, the expected brine grade at the Olaroz Project, the Olaroz project's future financial and operating performance including production, rates of return, operating costs, capital costs and cash flows, the comparison of such expected costs to expected global operating costs, the ongoing working relationship between Orocobre and the Provinces of Jujuy and Salta, the on-going working relationship between Orocobre and Olaroz project financiers Mizuho Bank and JOGMEC and the satisfaction of any lending covenants, the future financial and operating performance of the Company, its affiliates and subsidiaries including Borax Argentina, the estimation and realization of

mineral resources at the Company's projects, the viability, recoverability and processing of such resources, timing of future exploration at the Company's projects, timing and receipt of approvals, consents and permits under applicable legislation, trends in Argentina relating to the role of government in the economy (and particularly its role and participation in mining projects), adequacy of financial resources, forecasts relating to the lithium, boron and potash markets, potential operating synergies between the Salinas Grandes and Cauchari projects and the Olaroz project, the potential processing of brines from the Cauchari Project and the incremental capital cost of such processing, expansion, growth and optimisation of Borax Argentina's operations, the integration of Borax Argentina's operations with those of Orocobre and any synergies relating thereto and other matters related to the development of the Company's projects and the timing of the foregoing matters.

Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from those expressed or implied by such forward-looking information, including but not limited to the risk of further changes in government regulations, policies or legislation; that further funding may be required, but unavailable, for the ongoing development of the Company's projects; fluctuations or decreases in commodity prices; uncertainty in the estimation, economic viability, recoverability and processing of mineral resources; risks associated with development of the Olaroz Project; unexpected capital or operating cost increases; uncertainty of meeting anticipated program milestones at the Olaroz Project or the Company's other projects; general risks associated with the feasibility and development of the Olaroz Project and the Company's other projects; risks associated with investments in publicly listed companies, such as the Company; risks associated with general economic conditions; the risk that the historical estimates for Borax Argentina's properties that were prepared by Rio Tinto, Borax Argentina and/or their

consultants (including the size and grade of such resources) are incorrect in any material respect; the inability to efficiently integrate the operations of Borax Argentina with those of Orocobre; as well as those factors disclosed in the Company's Annual Report for the year ended June 30, 2015 filed at www.sedar.com.

Forward-looking information is based on a number of assumptions and estimates that, while considered reasonable by the Company, may prove to be incorrect. Assumptions have been made regarding, among other things: the Company's ability to carry on its exploration and development activities at its projects and to continue production at Borax Argentina's properties, the timely receipt of required approvals, the prices of lithium, potash and boron, the ability of the Company to operate in a safe, efficient and effective manner and the ability of the Company to obtain financing as and when required and on reasonable terms. Readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been used. Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers should not place undue reliance on forward-looking information. The Company does not undertake to update any forward-looking information, except in accordance with applicable securities laws.

SUMMARY

Olaroz operating revenue of US\$33.5M for September quarter 2016

Gross cash margin of US\$5,755/tonne

Operating cash cost US\$3,579/tonne¹

Sales de Jujuy S.A. self funded a US\$12.8M principal and interest payment for the Mizuho project loan during the September quarter

Production forecast for FY2017 is >15,000 tonnes

Expansion studies on track for target of 35,000 – 42,500 tonnes total production

Borax Argentina September quarter production up 29% quarter on quarter



CAPITAL MARKETS SNAPSHOT (ASX:ORE, TSX:ORL)

CAPITAL STRUCTURE (AS AT 20th November 2016)

Shares outstanding **210M**

Performance Rights and
Options Outstanding **1.71m**

Cash Balance
(Corporate 30/09/16) **US\$32.2m**

Share price ASX/TSX **A\$3.90/C\$3.83**

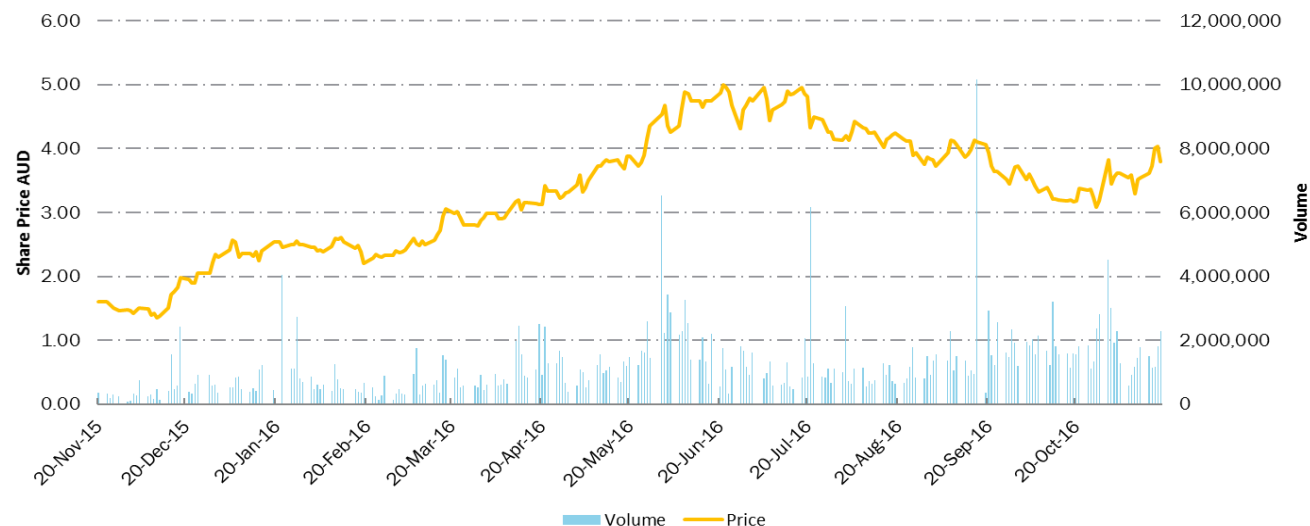
Market capitalisation **A\$819M**

52 week share price range (close):

ASX **A\$1.33–A\$5.05**

TSX **C\$1.25–C\$4.92**

SHARE PRICE CHART



SHAREHOLDERS

Executives and Directors **~4.0%**

Institutions, Banks and Brokers **~69%**

INVESTOR RELATIONS CONTACTS

Andrew Barber Investor Relations Manager
T: +61 7 3871 3985
M: +61 418 783 701
abarber@orocobre.com

David Hall – Business Development Manager
T: +61 7 3871 3985
M: +61 407 845 052
dhall@orocobre.com

LOCALITY MAP



ARGENTINA – REFORMS

THIRD LARGEST ECONOMY IN LATIN AMERICA, MEMBER OF G20

Pro-business Macri Administration is delivering changes that will allow the Argentinian economy to grow

FLOAT OF CURRENCY

Ends the artificially high exchange rate, Argentinian peso (ARS) has devalued by ~50% against the USD since 18 December 2015

CAPITAL TRANSFER RESTRICTIONS REMOVED

Allows free flow of capital in and out of the country

REMOVAL OF EXPORT DUTY

On most agricultural and industrial products including lithium carbonate, refined and mineral boron products

REMOVAL OF IMPORT CONTROLS

Allows easier and quicker international sourcing of materials and equipment

Delivers on-going operating and capital cost reductions for Orocobre

OPERATIONAL PERFORMANCE

OLAROZ PRODUCTION AND GUIDANCE

KEY INDICATORS (100% basis)

2016 FY production of 6,903 tonnes

September quarter production of 3,013 tonnes, with 1,125 tonnes in month of September

Low operating cash cost in September quarter of US\$3,579/t

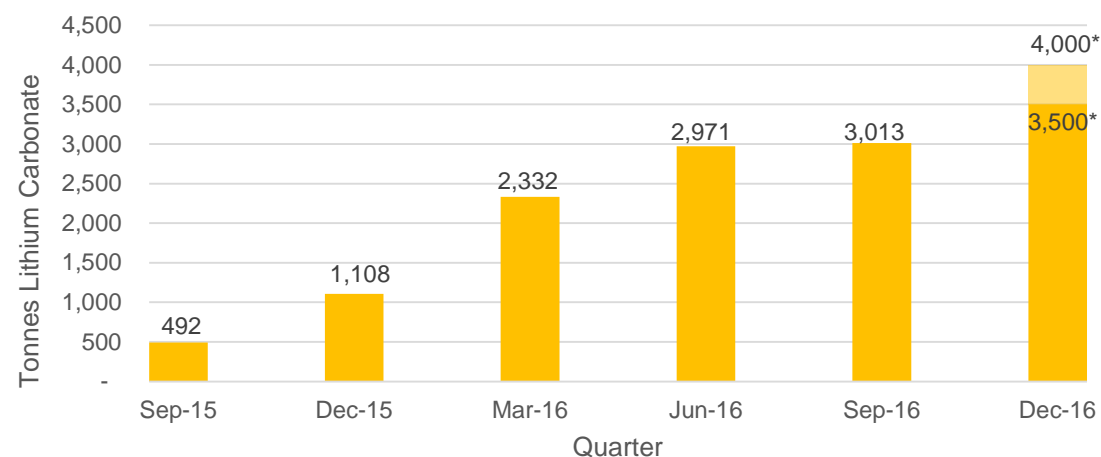
September quarter sales revenue of US\$33.5M, gross cash margin of US\$5,755/t

December quarter production is forecast to be 3,500 – 4,000 tonnes, FY2017 forecast of >15,000 tonnes

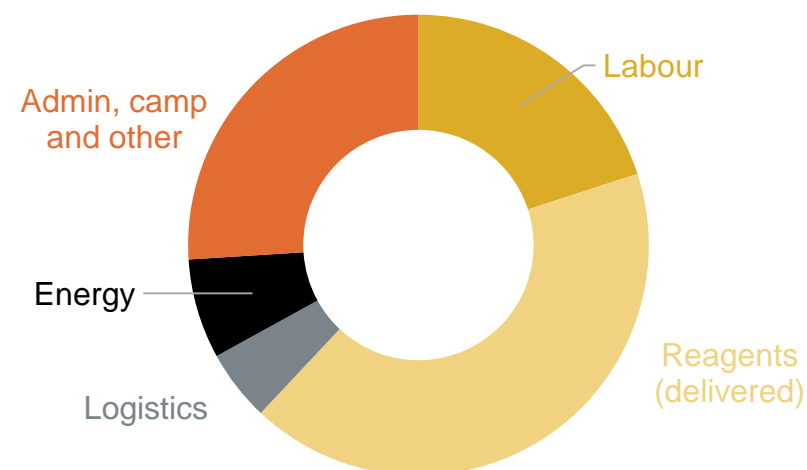
Forecast operating cash cost (FY18) <US\$2,500/t

Q4 2016 FOB anticipated pricing net of logistics and commissions ~US\$10,000

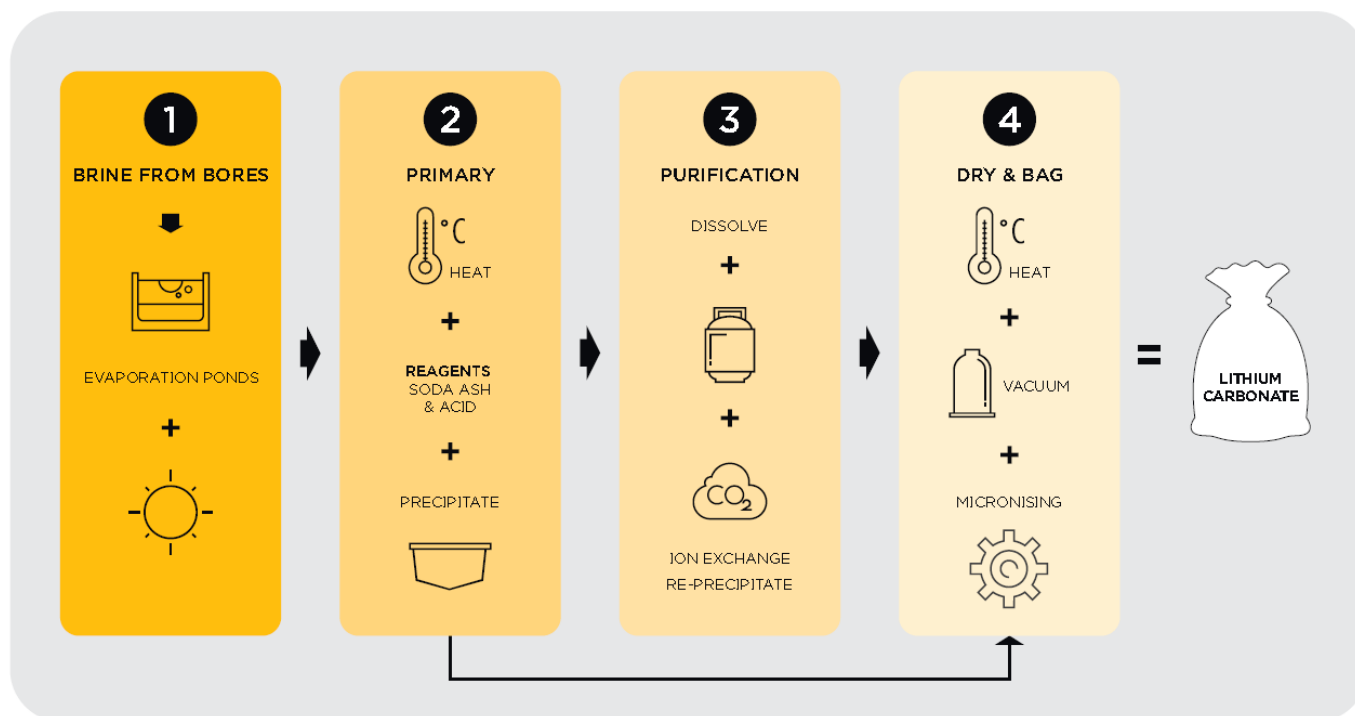
Olaroz Production



CASH COST COMPONENTS



OLAROZ OPERATIONAL IMPROVEMENTS



PROCESS IMPROVEMENT PROJECTS COMPLETED

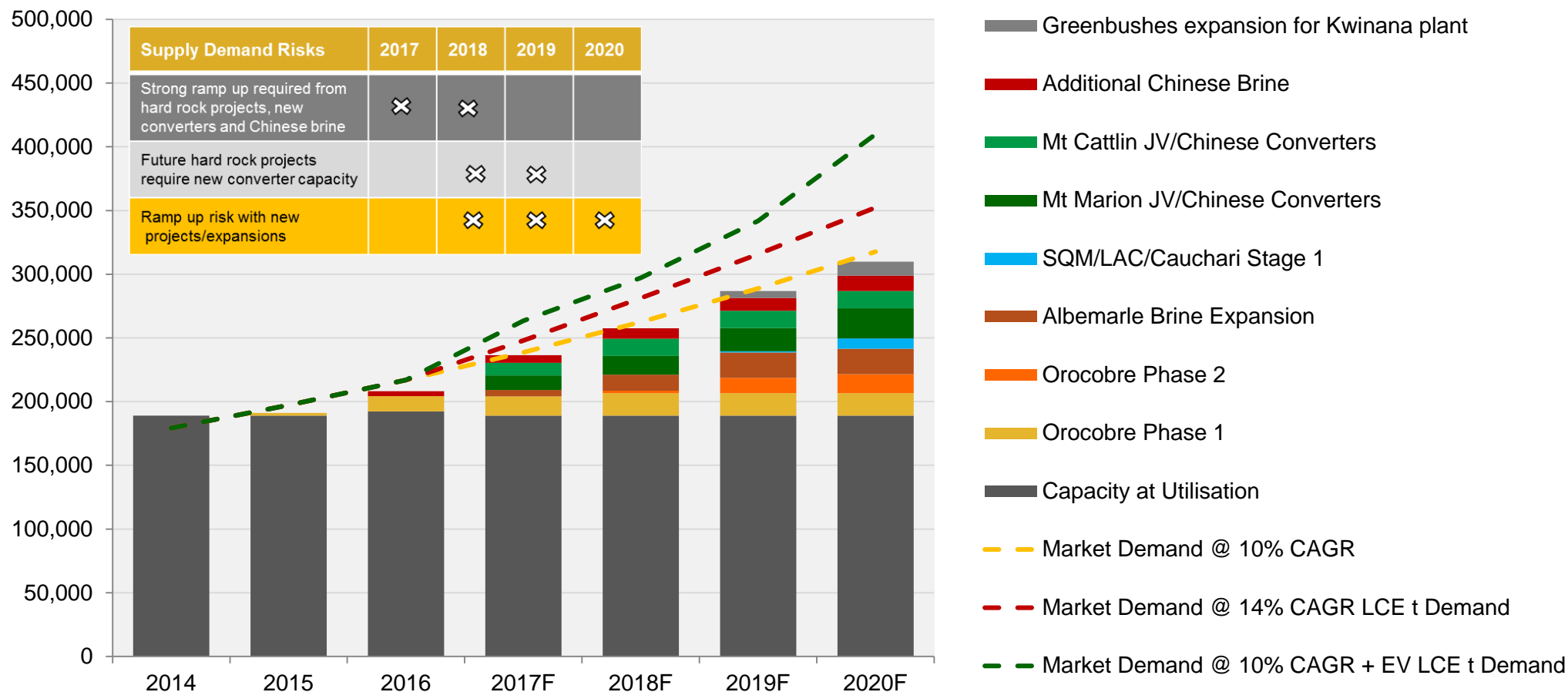
- Boiler capacity increase
- Centrifuges and polishing filters
- Heat exchangers
- Acid wash circuit/parallel pipes
- Flocculant dosing and settling ponds
- Cooling in purification circuit
- CO₂ injection points and diffusor design
- Cyclone bank and thickener throughput (currently underway)

OPERATIONAL OPTIMISATION

- Operational practice
- Logistics
- Reagent usage
- Recovery

OROCOBRE MARKET VIEW

UNDERSUPPLY OF LITHIUM CARBONATE



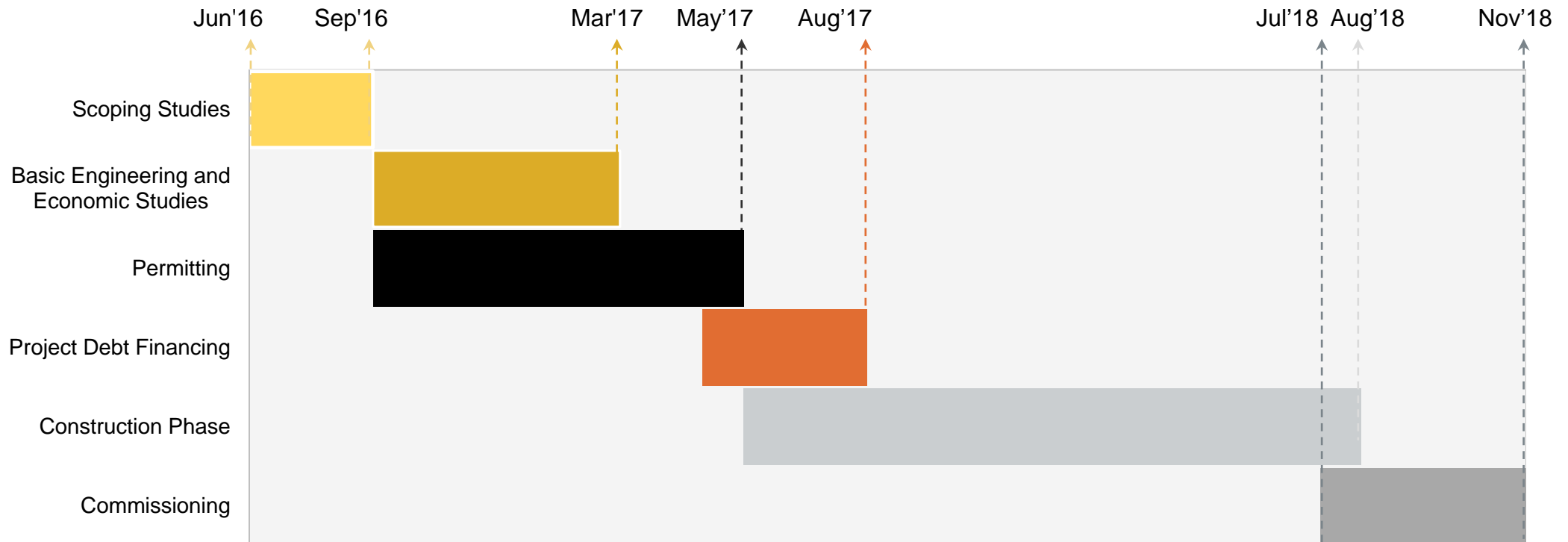
Supply Notes: Rest of the world 85% utilisation (including Greenbushes/Kwinana expansion) China 60% utilisation, Talison's capacity considered in line with Chinese converter plant limitations and Europe industrial market, reducing supply to third party converters and impact of new entrants.
 FMC proposed first lithium hydroxide expansion (and any subsequent expansions) has a zero net effect on the LCE supply and demand picture as lithium carbonate is the feedstock
 Assumed 10% mineral conversion loss
 Sources: Company websites and Orocobre estimates.

Demand Notes:
 LCE Demand forecast assumes 1kg per kWh; 50 kWh per EV unit sold
 Source: EV Sales Forecasts (optimistic view)
 – Lux Research July 2015

EXPANSION STAGE 2: TARGETING 35,000 – 42,500 TPA

FUNDED BY PROJECT DEBT AND OPERATING CASHFLOW, NO NEW EQUITY NEEDED

OLAROZ PROJECT EXPANSION TIMELINE



- Scoping study complete and undergoing internal review with joint venture partners
- Existing finance partners likely to participate in Stage 2, equity contribution expected to be met with operational cash flow
- No capital raise required

BORAX OPERATIONAL PERFORMANCE IMPROVING



Sep Qtr like for like sales tonnes up

29%



FY16 improvement in EBITDAX

US\$1.353



FY16 cost of goods sold down

24%



Improved

ARS

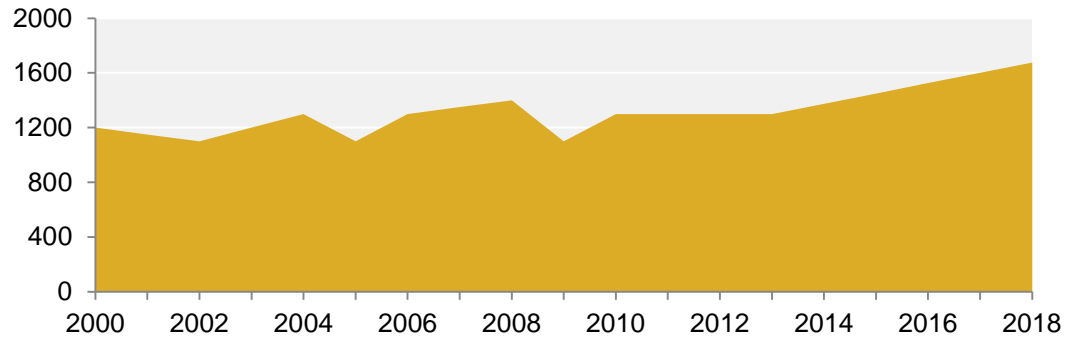
ARS:USD exchange rate drives financial improvement due to 60% of costs in ARS

- Cash flow positive despite difficult market conditions
- The key Brazilian market is showing signs of improvement in volume and price
- Tincalayu plant upgrade completed on time and materially on budget in April 2016
- Full production rate now achieved after relocation of the borax decahydrate plant to Tincalayu
- Scoping Study underway to expand production from 30,000 tpa to 100-120,000 tpa borax decahydrate equivalent at Tincalayu and 40,000tpa of boric acid. Early indications demonstrate a high level of capital efficiency.



BORAX MARKETS

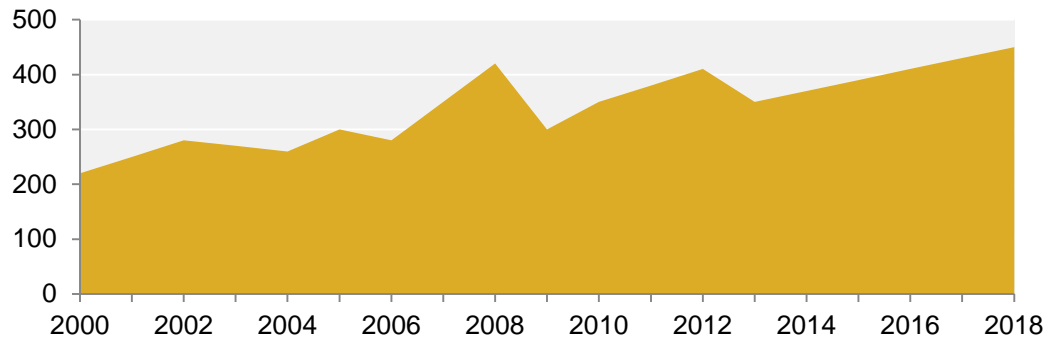
GLOBAL REFINED BORATES DEMAND B2O3 KT



REFINED BORATES MARKET

- Overall 4.5% CAGR from 2013 to 2018
- Growth driven by Agriculture in the Americas and Asia (6%), Borosilicate Glass in China (4%)
- As the market continues to improve, Insulation Fiber Glass in the North American housing market will also stimulate growth.

GLOBAL MINERAL BORATES DEMAND B2O3 KT



MINERAL BORATES MARKET

- Overall 4% CAGR from 2013 to 2018
- Growth driven by Agriculture (6%), Insulation Fiber Glass (4%) and Frits and Ceramics (4%)
- Minerals used in Asia for conversion to refined products and in North/South America directly in end-uses
- Fracking application is developing in North America based on ulexite

SUMMARY

Olaroz is a profitable, low cost, high margin producer

Significant cash to be returned to Orocobre from loans/SBLC

Production volume growth continues

Lithium chemical market to remain in deficit

Olaroz expansion study lifts total production to 35,000 – 42,500 tonnes

Tincalayu expansion study to realize the potential of Borax Argentina SA

Set to reap the rewards in FY 2017



