Neometals

The Evolution of Lithium™

Investor Presentation

15 May 2017

Disclaimer

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Financial data: All figures in this document are in Australian dollars (AUD) unless stated otherwise.

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Competent Persons Statement:
The information in this document that relates to "Barrambie Mineral Resource Estimates", "Barrambie Pre Feasibility Study Results", "Mt Marion Mineral Resource Estimates" and "Lithium Battery Recycling – Scoping Study Results" are extracted from ASX Releases set out below. The Company confirms that it is not aware of any new information or data that materially affects the information included in the ASX Releases set out below, and in the case of estimates of mineral resources, that all material assumptions and technical parameters underpinning the estimates in those ASX Releases continue to apply and have not materially changed.

6/12/2013	Barrambie - Amended JORC 2012 Mineral Resource Estimate
25/08/2015	Barrambie Pre Feasibility Study Results
27/10/2016	Mt Marion Mineral Resource Upgrade
22/02/2017	Lithium Battery Recycling – Scoping Study Results

The Company confirms that all the material assumptions underpinning the production target and the forecast financial information derived from the production targets in the Barrambie Pre-feasibility Study and Lithium Battery Recycling – Scoping Study continue to apply and have not materially changed.

Corporate

Human & Financial Resources

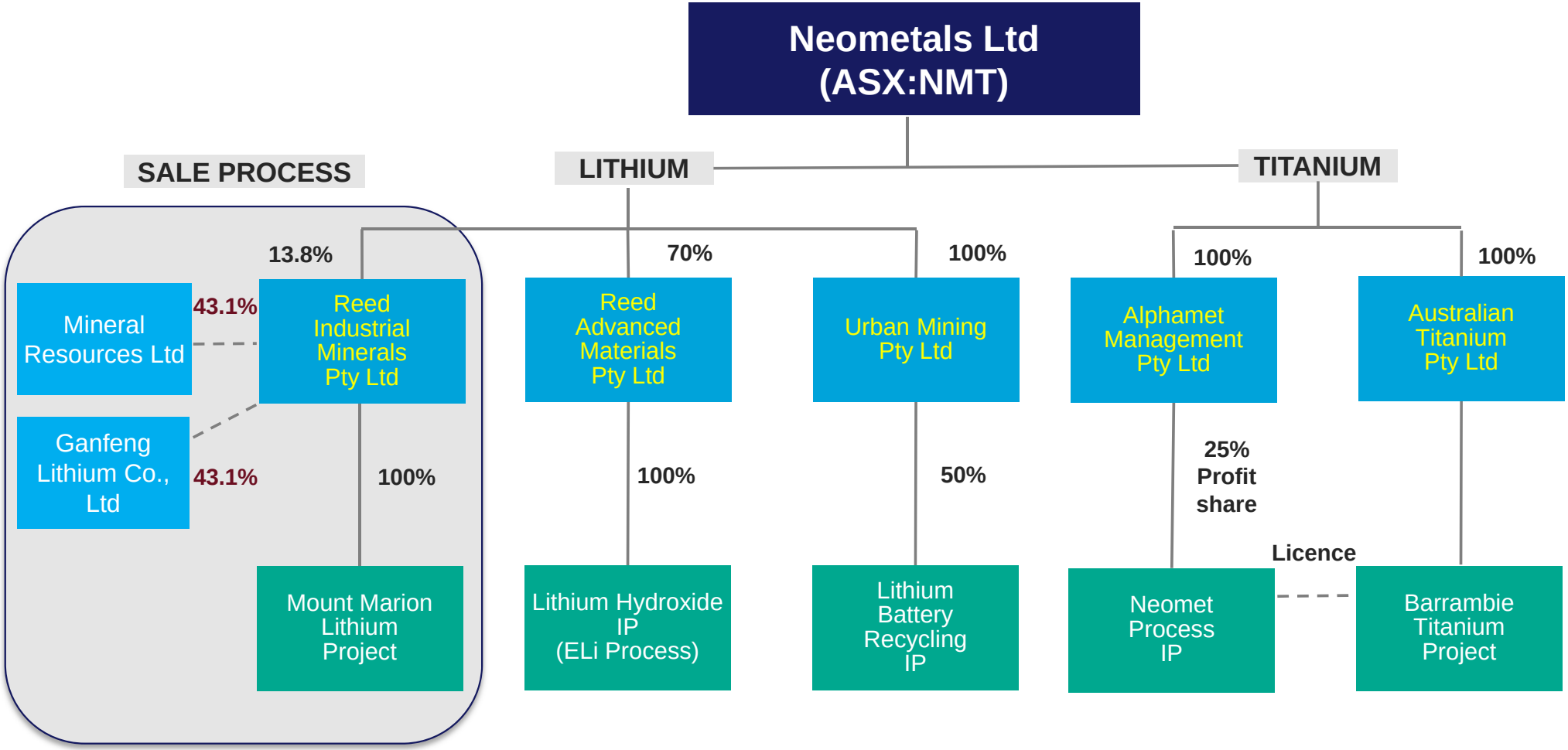
ASX CODE: NMT	OTC:RDRUY	
Last close (12-5-2017)	A$	0.265
Shares on issue	M	560
Market capitalisation	A$M	148
Net Cash (at 31-3-2017)	A$M	**53.5**
Receivables/Investments	A$M	**16.5**

DIRECTORS/MANAGEMENT	
Steven Cole	Non-Executive Chairman
Chris Reed	Managing Director & CEO
David Reed	Non-Executive Director
Natalia Streltsova	Non-Executive Director
Doug Ritchie	Non-Executive Director
Michael Tamlin	COO
Jason Carone	CFO & Company Sec.

18 MONTH SHARE PRICE

MAJOR SHAREHOLDERS	
David Reed	10.9%
Kilkenny Limited	4.3%
Top 20 (10-5-2017)	38.0%

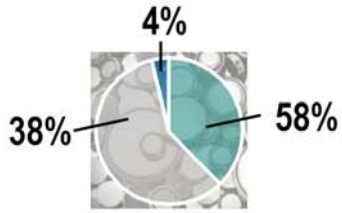
Operating structure



All the right elements

Investment Thematic – Conservative Exposure to Energy Storage Revolution

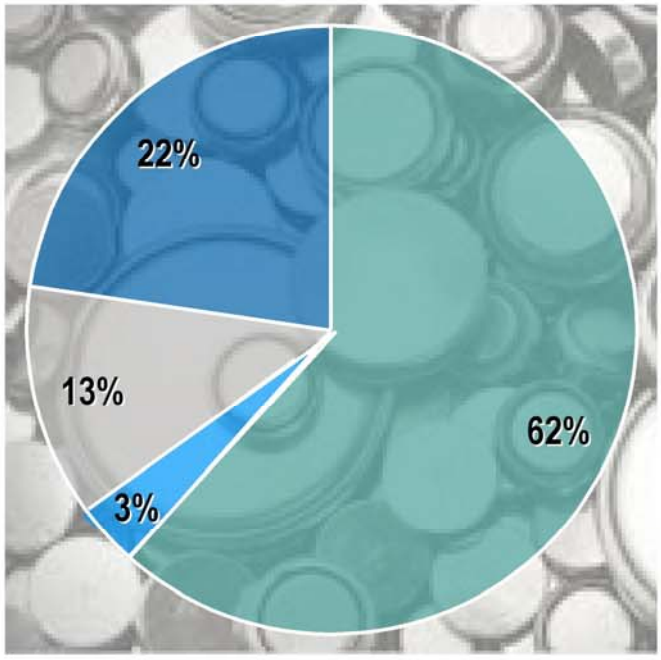
Global Lithium-Ion Battery Capacity - 2016 (27.9 GWh)



- China
- Poland
- Korea
- United States

6X Growth

Global Lithium-Ion Battery Capacity - 2020 (173.5 GWh)



Source: estimates on battery capacity courtesy of Benchmark Mineral Intelligence

Leading Cathode Producer – 6 X Growth

umicore

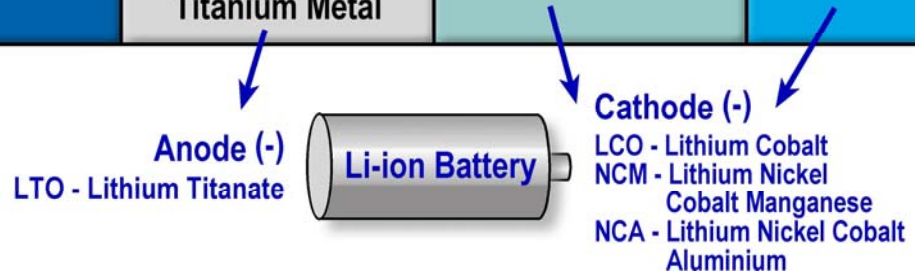
Accelerated expansion of cathode materials production capacity

- **Sharp uplift in Umicore's orders for NMC cathode materials** for xEV
- **Outpacing global market growth** due to unique positioning
- Decision to **invest € 300 million to accelerate expansion** of cathode materials capacity, on top of investment of € 160 million currently in execution
- Combined investments to increase total cathode material production capacity more than six fold between 2015 and 2020, with revenue ramp-up starting in 2017
- **Drives value creation and underlines Umicore's leadership in clean mobility**

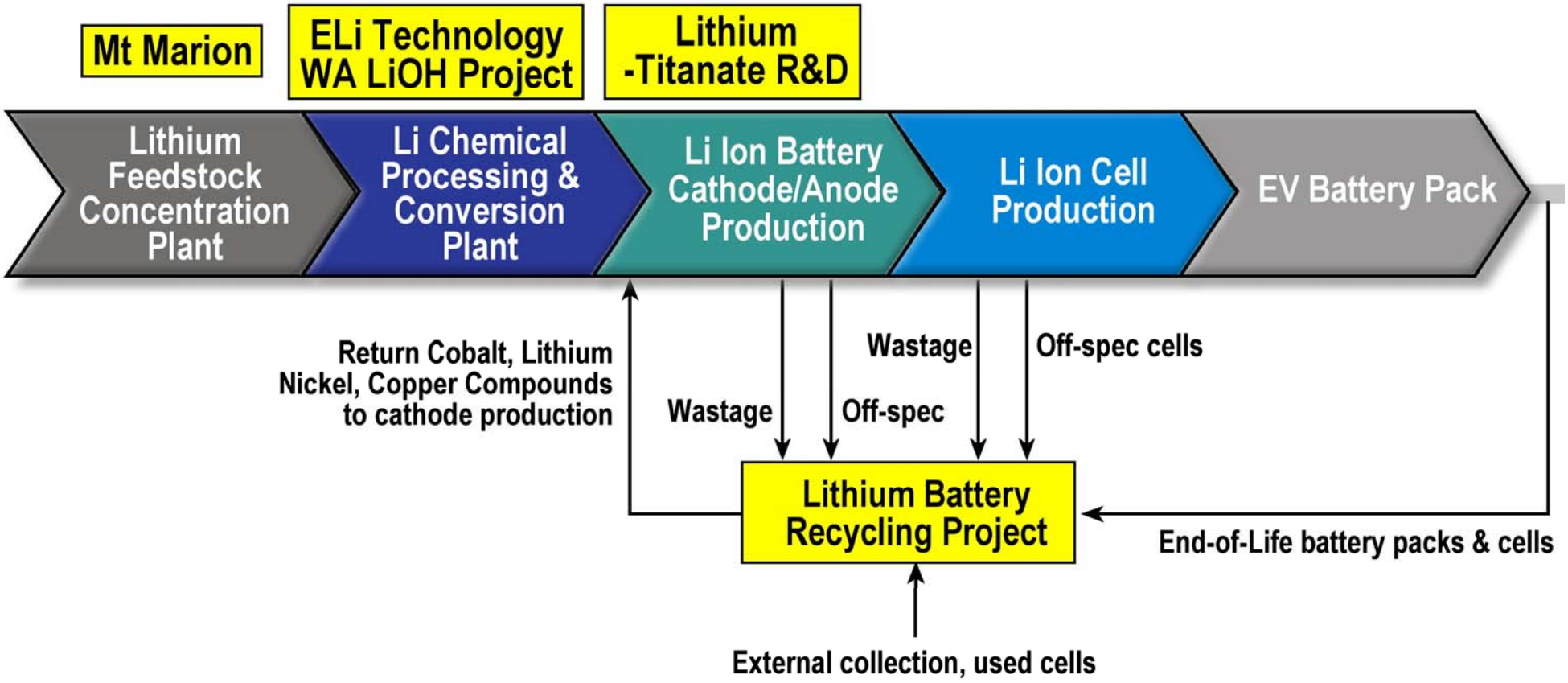
Source: Umicore May 2017

Focus on Li-Ion Battery Commodities

Element	Ti	Li	Co
Feedstock(s) Source	Barrambie (100%) 47Mt @ 22% TiO_2	Mt Marion (13.8%) 77.8Mt @ 1.37%Li_2O	Lithium Battery Producers Consumer Electronics Electric Vehicles
Upstream Product	+ 40% TiO_2 Concentrate	6% Li_2O Concentrate	Lithium Ion Batteries ≤ 20% Co
Downstream Product/Process	Neomet Process (25%) Titanium Hydroxide $Ti(OH)_4$	ELi™ Process (70%) Lithium Hydroxide LiOH	Unnamed Process (50%) Cobalt Sulfate $CoSO_4$ + Li_2CO_3 Lithium Carbonate
Target Applications	Titanium Pigment Titanate Adsorbent Lithium Titanate Titanium Metal	Lithium Battery Cathode Materials	Lithium Battery Cathode Materials



Our Positions in the Supply Chain



Long-term Strategy

Combining innovative cost advantages and strong partners

to develop a portfolio of globally significant mineral resources

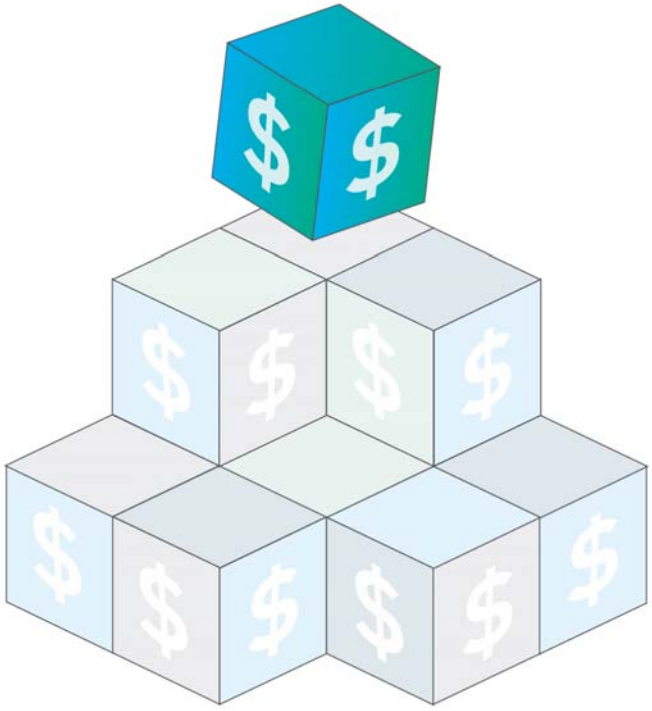
into lower-risk, long-life, high-margin operations to optimise stakeholder returns

2 cent unfranked div – April ‘16
2 cent unfranked div – Aug ’16
A$5M/5% on market buyback

Tactical Plan - FY17

Grow market cap from maximising returns from existing operations, increasing margins via higher value (downstream) products and developing growth options.

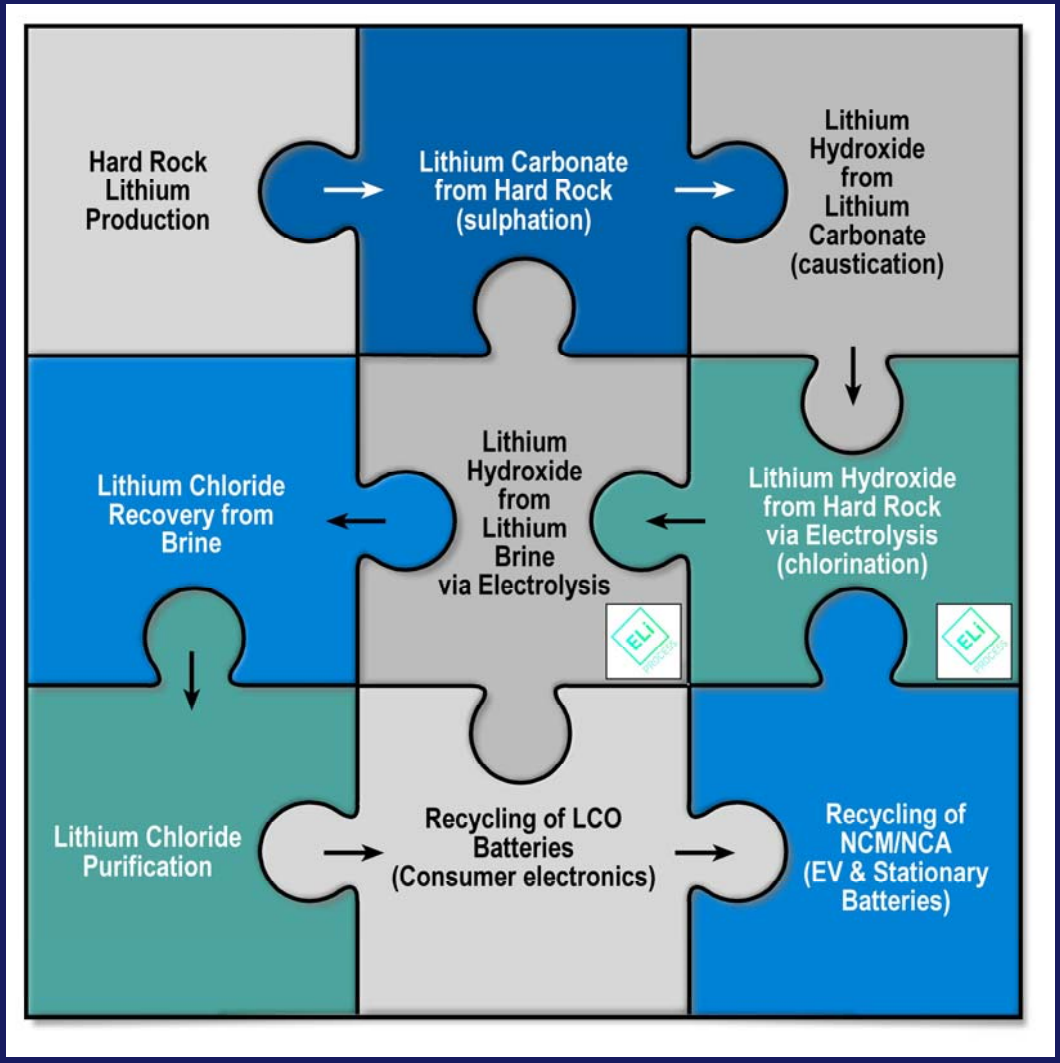
- Mine, process, sell globally relevant minerals with strong market fundamentals
- Commercialise proprietary processing Technologies
- Build strong Human and Financial Capability
- Leverage Project Acquisition and Development Capacity



- Negotiated increased output and offtake pricing. Running sale process for stake in Mt Marion
- Advancing local LiOH project in parallel with equipment vendor testwork, offtake and partner selection processes.
- Fast-track evaluation of proprietary recycling process to recover Lithium/Cobalt/Nickel from Lithium-ion batteries with focus on EV.
- Build royalty portfolio from commercialisation of Neomet Process with Sedgman and Andritz
- Cash and investments ~ A$70M, no debt

All the right elements

Evolution of our Lithium Business



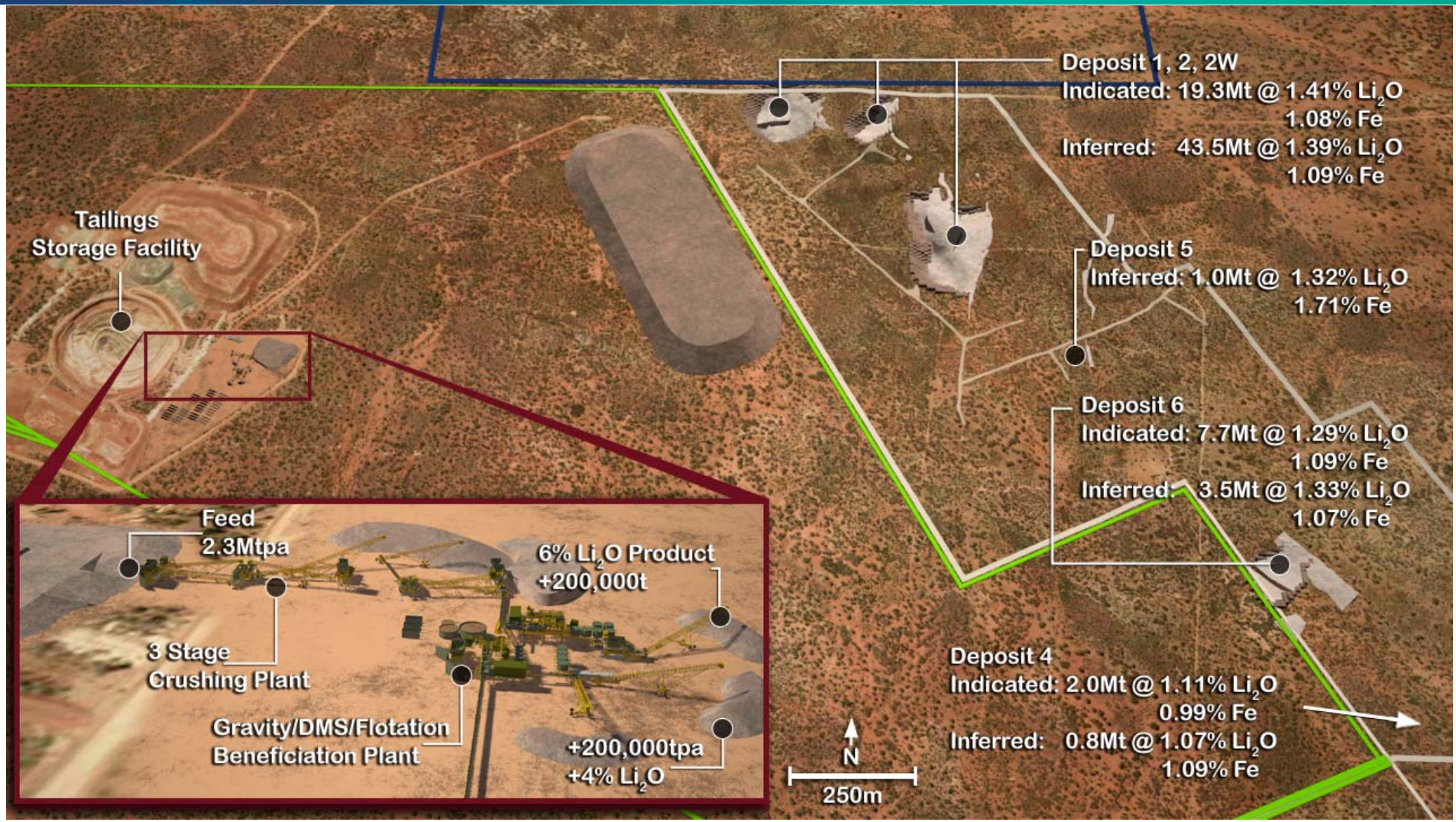
- Commercialise Mt Marion ☑
- Evaluating local Conventional Downstream Processing ☑
- Co-developed, Evaluated, Patented New ELi® Process ☑
- Co-developed, Evaluated, Patent Pending ELi ® for brines ☑
- Testing and Evaluating Lithium-Ion Battery Recycling ☑

Mt Marion Lithium Operation

Sale process underway for remaining 13.8% equity

World’s largest lithium concentrator

Globally Significant Operation – 400kt concentrates (~50kt LCE)



Neometals

Li + Ti = Nm

Outstanding Offtake Agreement

赣锋锂业
GanfengLithium

- ✓ China's largest, most diverse lithium producer
- ✓ Life-of-Mine, *Take-or-pay* Offtake Agreement
- ✓ From 1 July moving to transparent Lithium Carbonate/Lithium Hydroxide linked formula, with floor price protection
- ✓ Letter of Credit (100% payment on invoice)
- ✓ *Ability for MIN/Neometals to take 51% share of production in 2020.*

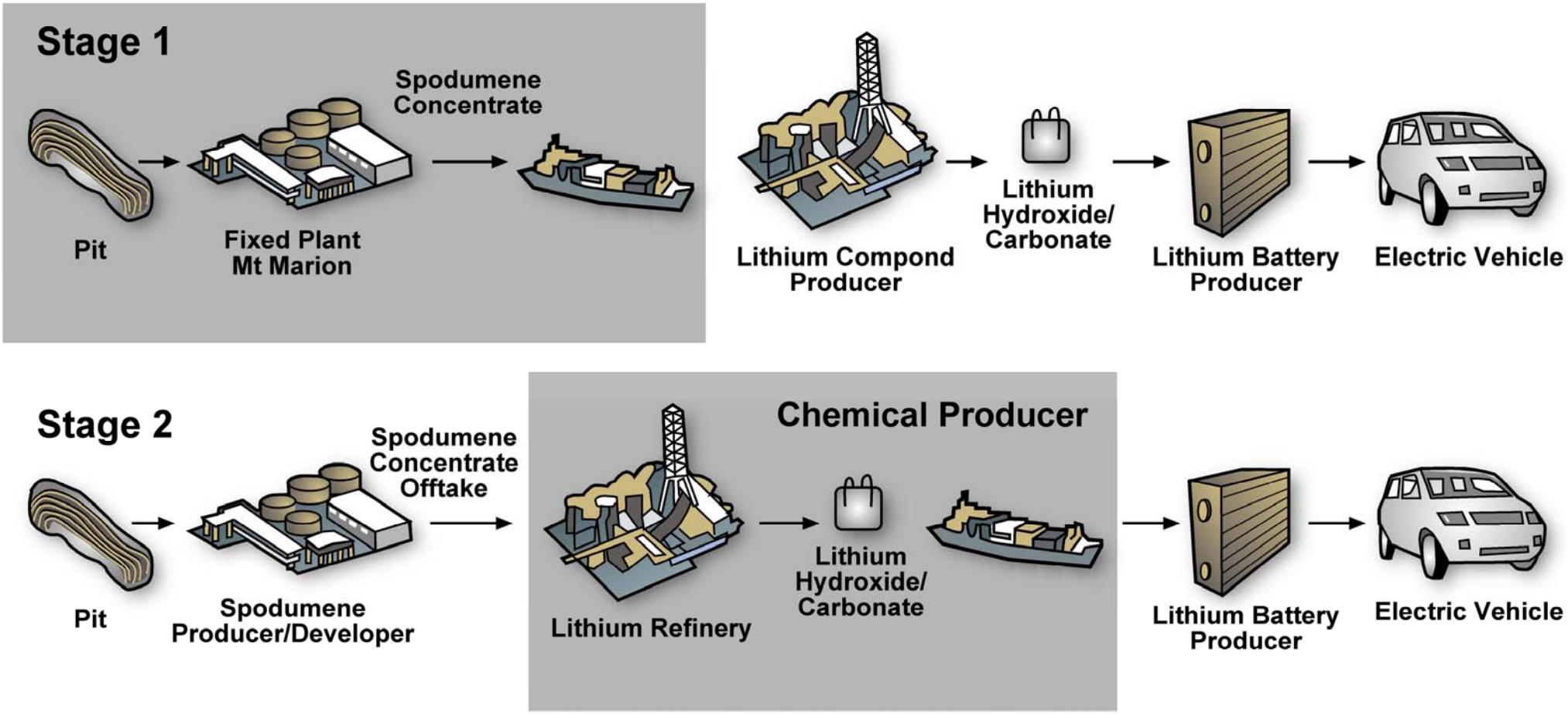
Downstream processing

WA-based LiOH Project

Neometals

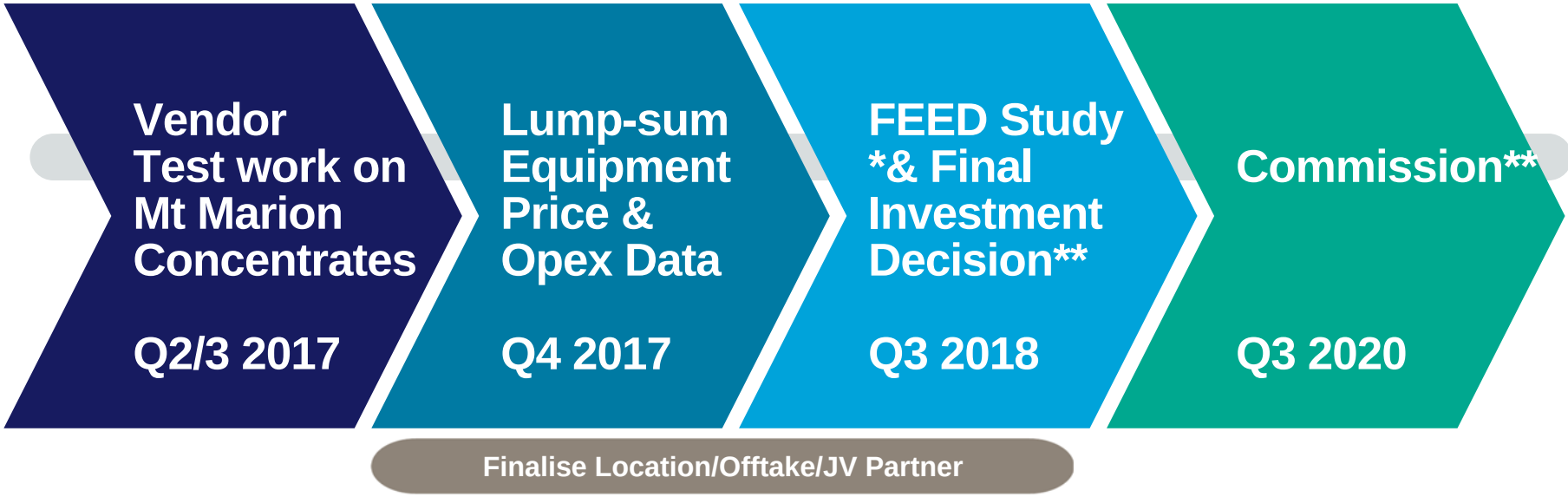
Ti + Li = Nm

Lithium users **want** $LiOH/Li_2CO_3$ from spodumene converted outside China



Commercialisation Plan

- Locate plant in WA to minimise transport, 7t spodumene concentrate needed for 1t of Lithium Hydroxide
- Utilise local spodumene (Share of Mt Marion or Third Party), natural gas, reagents and staff
- Use Sulfate/Caustic Flowsheet from leading Lithium equipment supplier
- Remove technology risk – speed to market

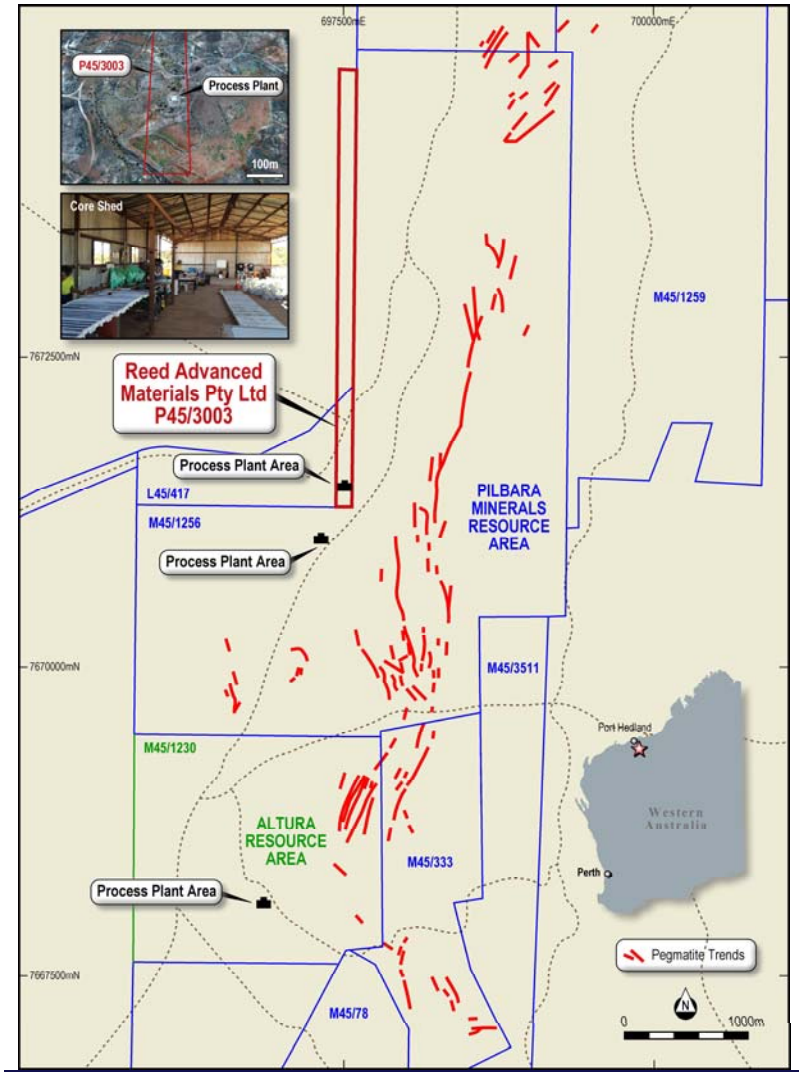


(*) Subject to NMT Board Approval (**) Subject to FID

Neometals

Li + Ti = Nm

Potential Site Evaluation



- Hatch benchmarking Capex/Opex for 3 locations: Kalgoorlie, Kwinana and Port Hedland
- NMT has 70% beneficial interest in PLA45/3003 which covers the Pilgangoora Tin-Tantalum Plant and Workshop, and historic tailings
- Adjacent tenure contains Pilbara Minerals and Altura Mining's Proposed Mine/Concentrators.

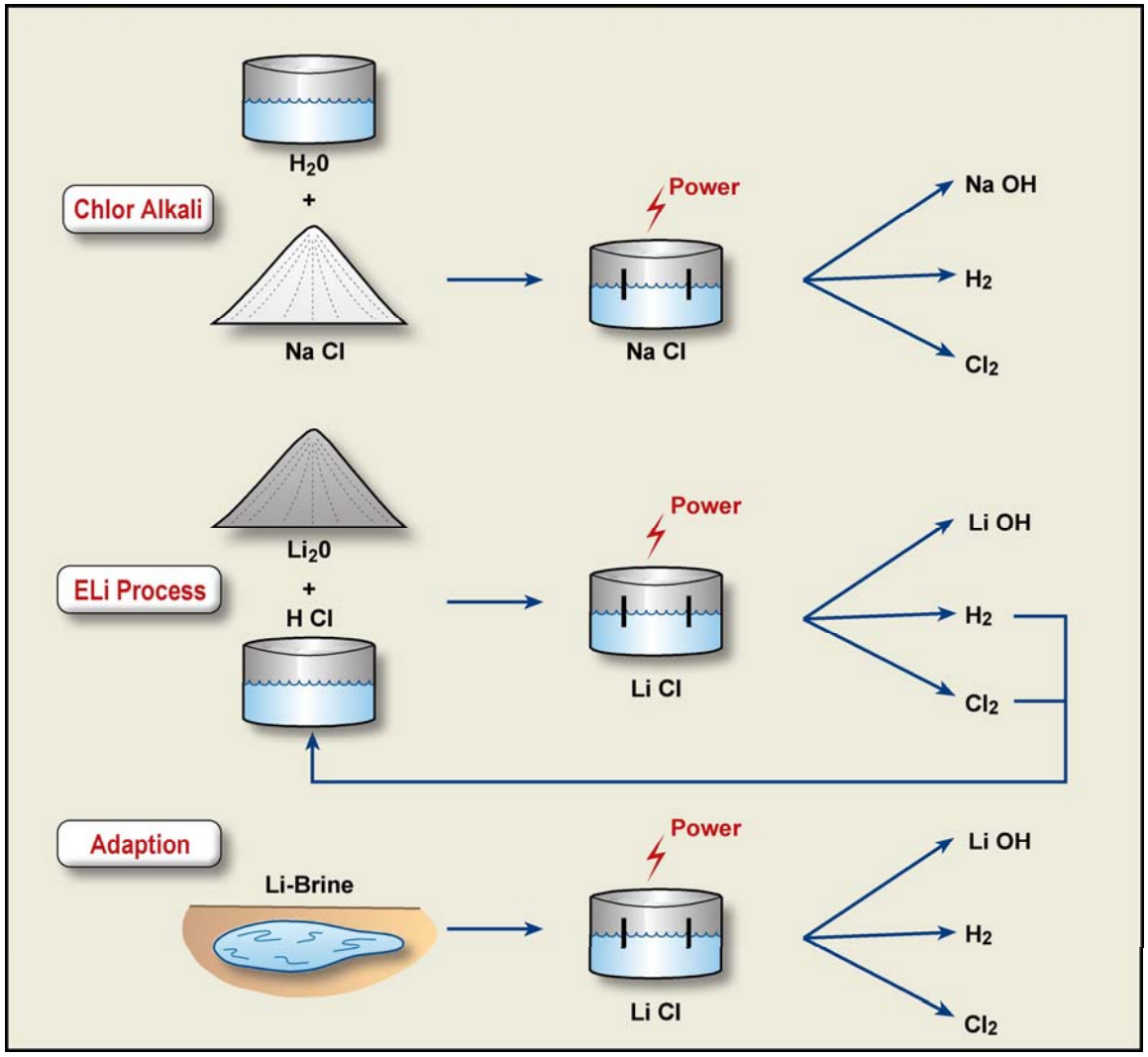
Downstream processing

ELi Process™

Neometals 70%

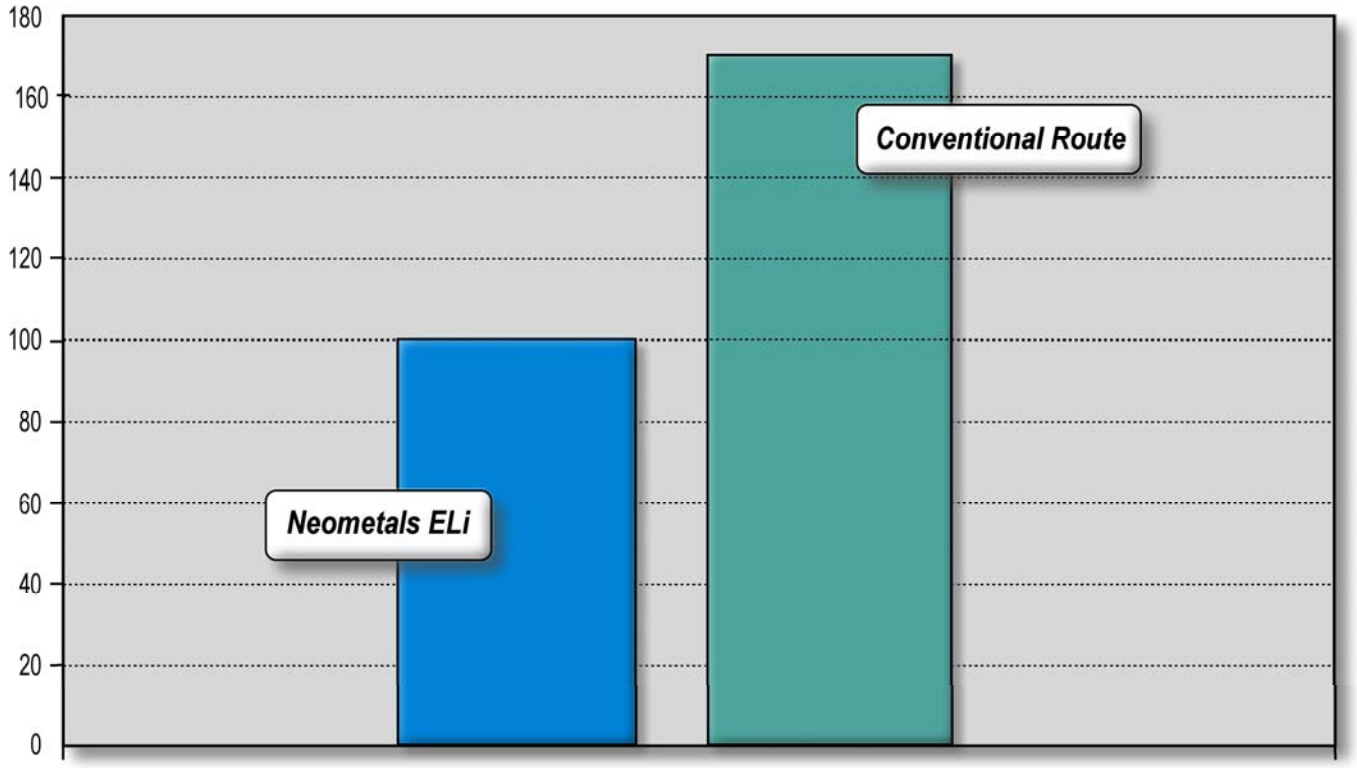
Mineral Resources Ltd 30%

Competitive advantage from Patented Technology for production of LiOH



ELi potentially levels playing field for western hard rock developers

Relative LiOH Conversion Costs from Spodumene Leach Solution
(US$ per tonne $LiOH.H_2O$) - Malaysia basis)
ELi Process = Base 100



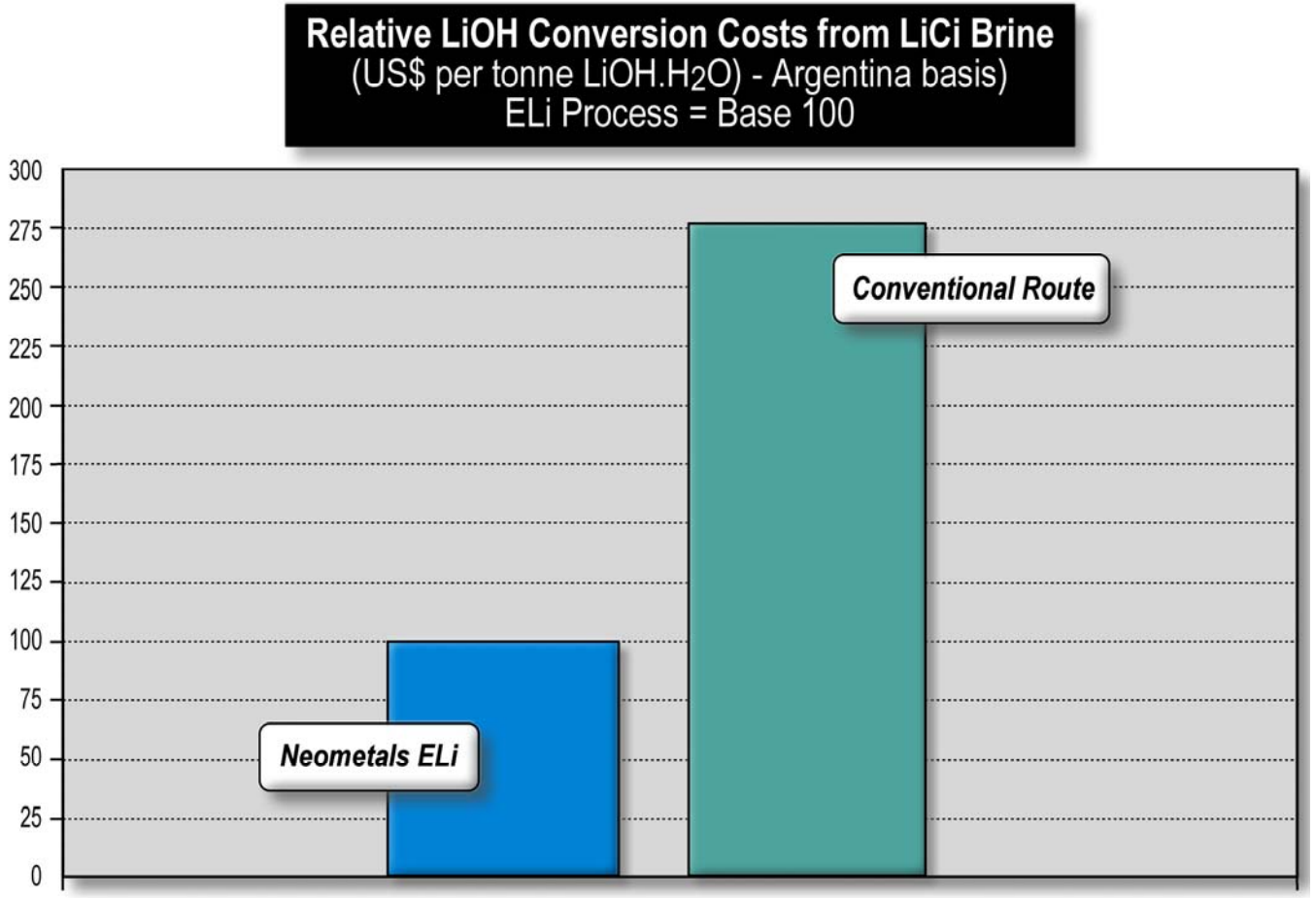
*Source: Global Engineering Group (2016) (Identity not for publication)

Business model is to deploy/co-invest in partnership with and/or licence to integrated hard-rock developers in return for equity/royalty stream.

Neometals

Li + Ti = Nm

ELi potentially slashes brine-based LiOH opex vs conventional causticising



Business model is to licence to existing brine producers in return for royalty stream:

- De-risks ELi for own use later
- Quicker cashflow
- Higher P/E multiple

*Source: Global Engineering Group (2016) (Identity not for publication)

Co

Downstream processing

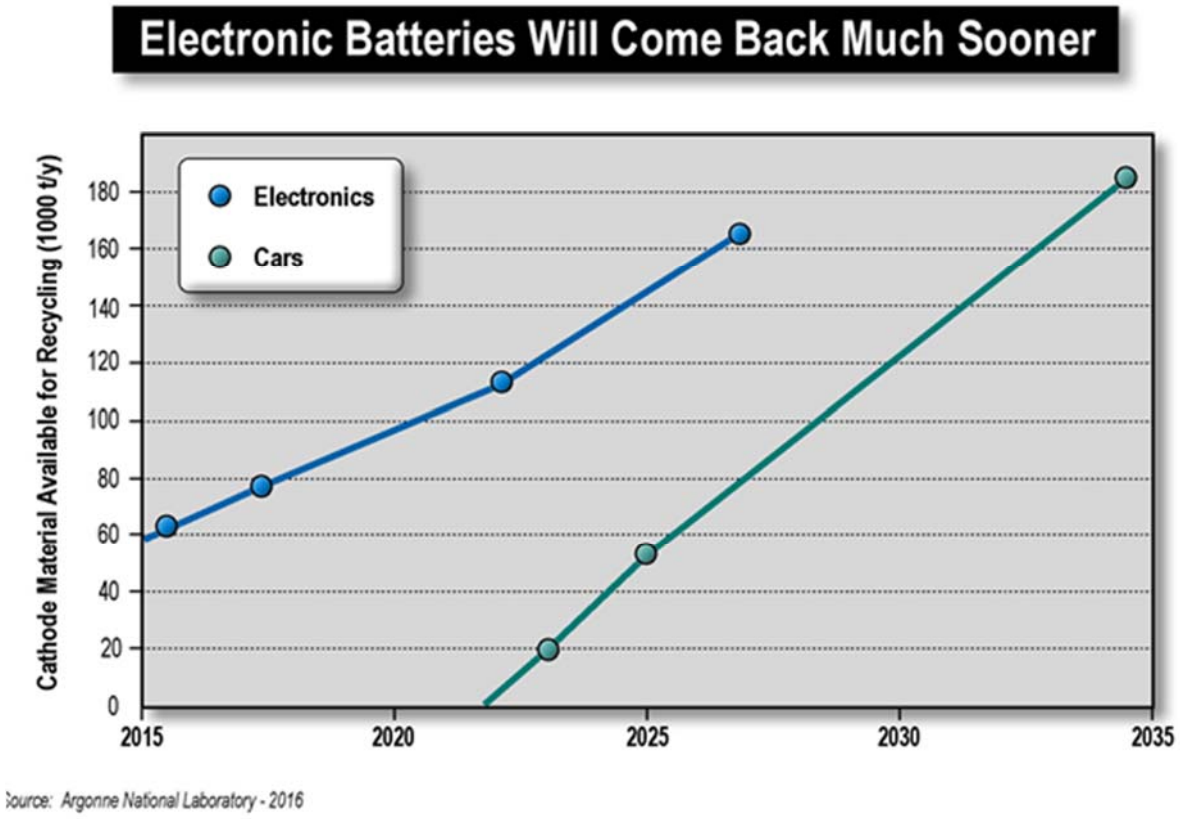
Lithium Battery Recycling

Neometals 50% of IP, Exclusive licence

Lithium Battery Recycling Strategy

Co

Exploiting cost advantage in recovery of Cobalt from Lithium Cobalt Batteries in Consumer Electronics to develop a low-risk, long-life, high-margin operation with strong partners.



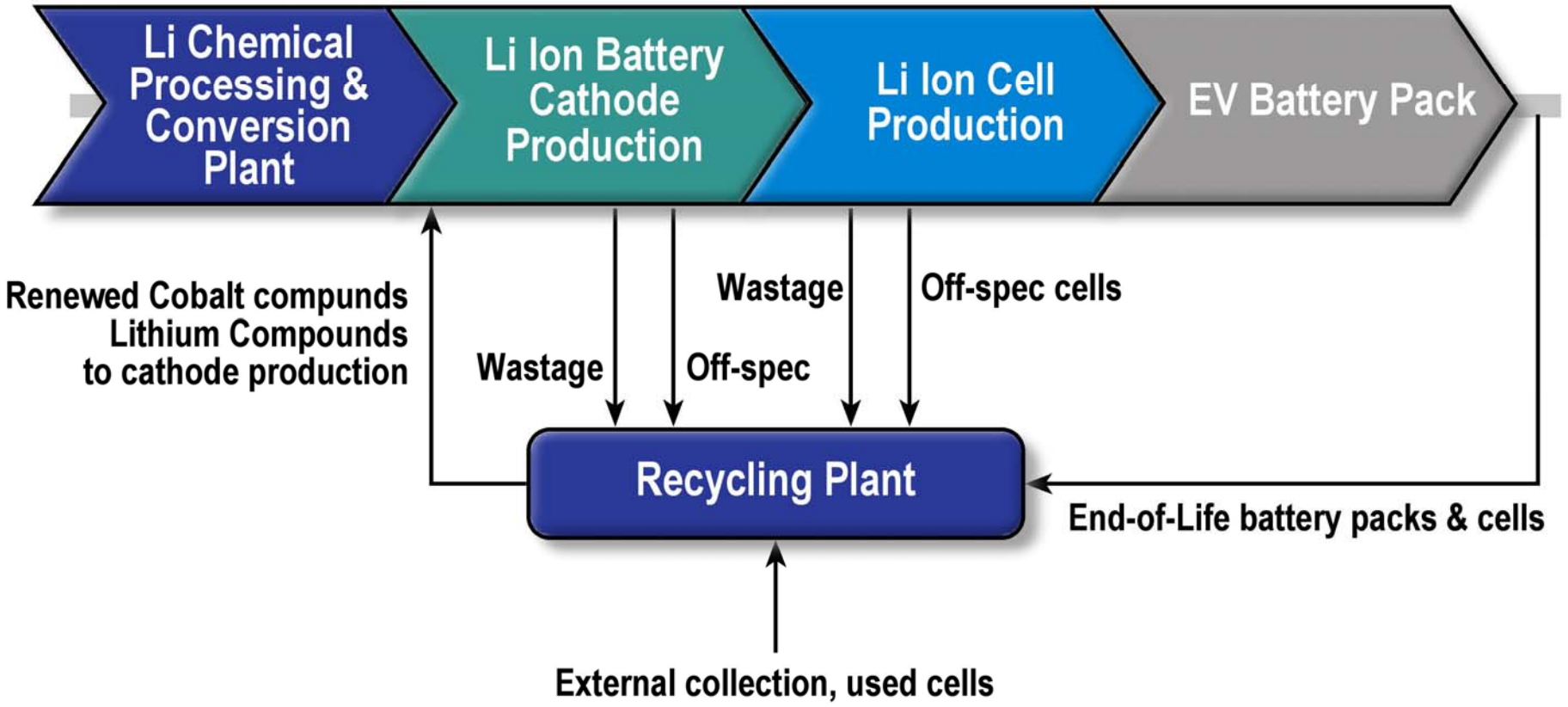
Estimated
< 5%
Recyled

Neometals

Li + Ti = Nm

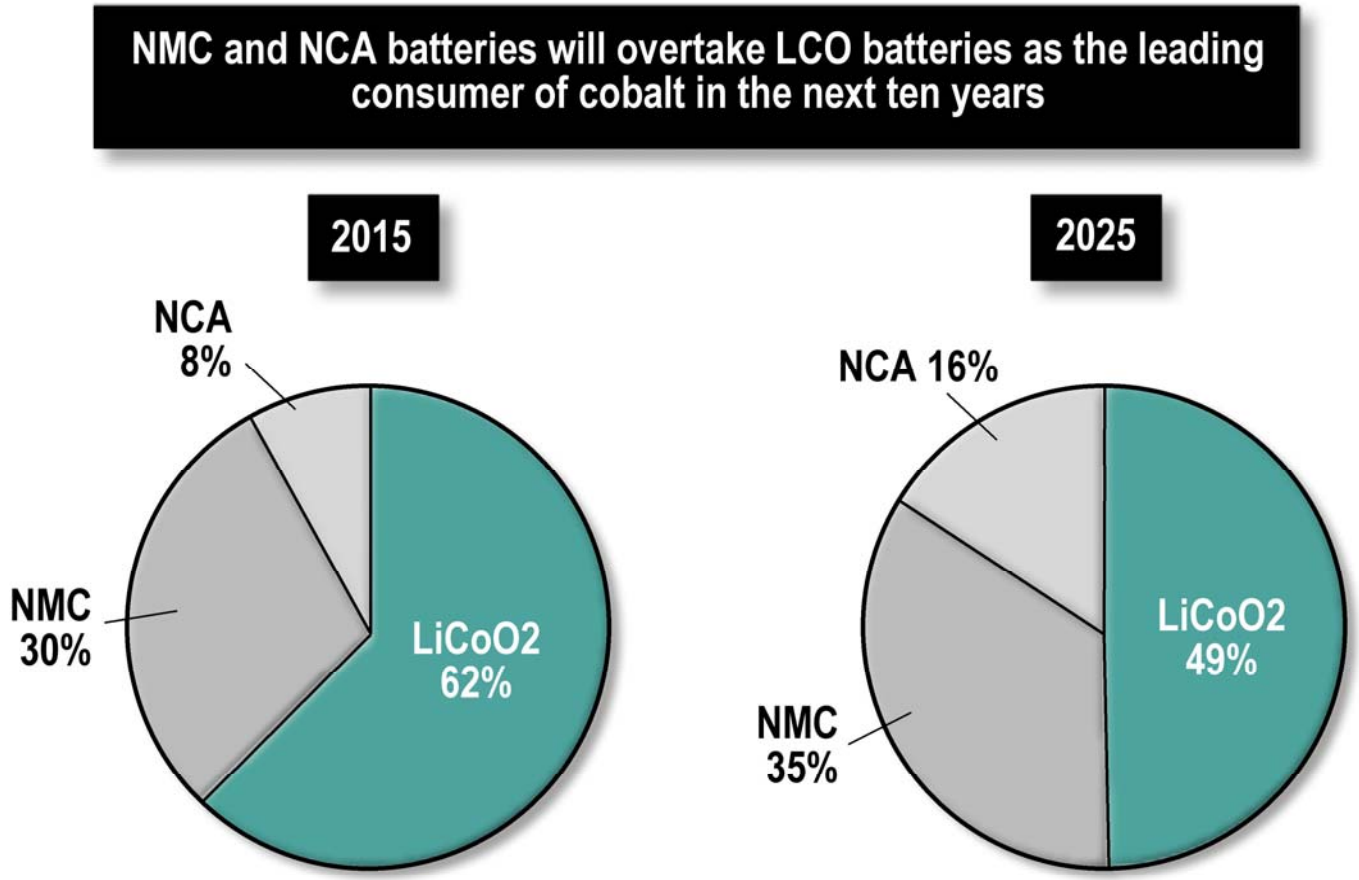
Closing the loop:Recycle and re-use

Co



Initial test work and Scoping Study on Consumer Electric Batteries - LCO

Co

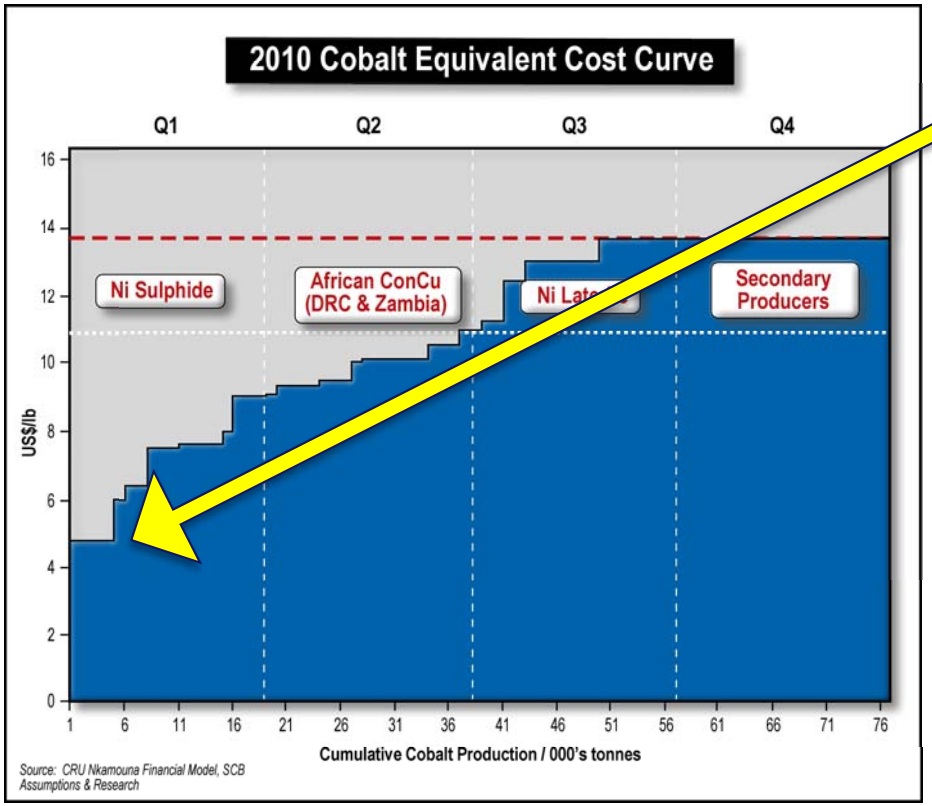


Source: CRU International Limited (2016)

Scoping Study Results

Co

(± 30% accuracy)



Operating Costs	US$4.45/lb Co (US$10k/t)
Spot price	US$25/lb Co (US$55k/t)
Capex	US$4.5M

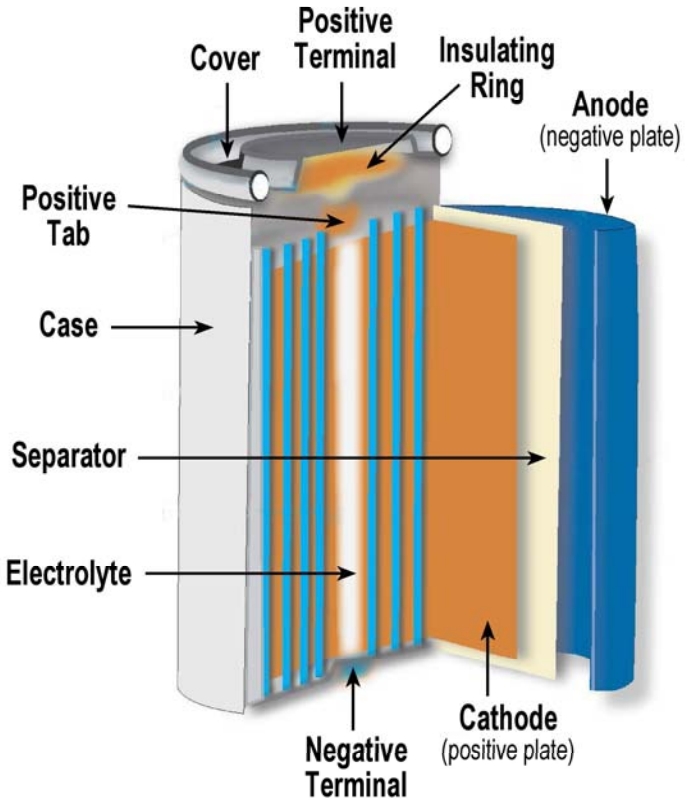
Proceeding to pilot plant – Q3 ‘17

Can be constructed and commissioned in 42 weeks

Constructing Pilot Plant to process Typical EV Battery Cells - NMC

Co

Schematic of Lithium-ion Battery & Average Compostion of Components by Material

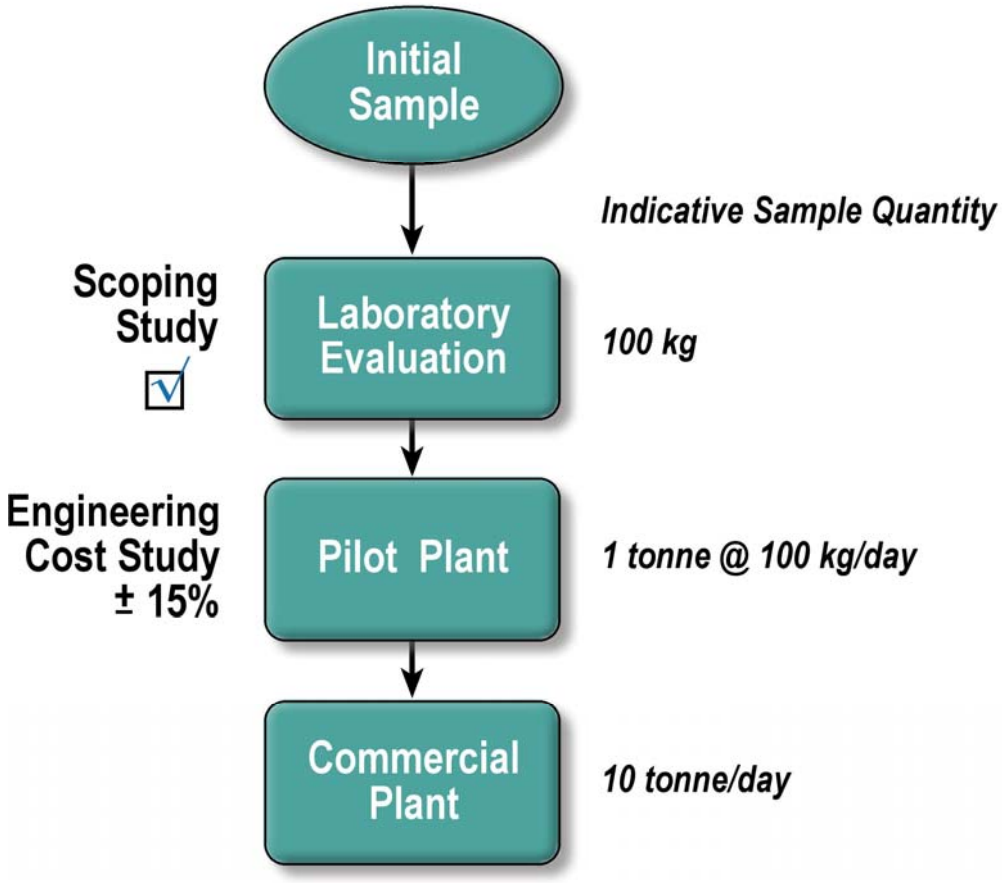


Source: Chris Hillseth Enterprises - 2014

Lithium-ion Battery Component	Materials	Percentage (%) Comp-ostion
Cathodes	Li_2CO_3 (lithium carbonate) $LiCoO_2$ (lithium cobalt oxide) $LiMn_2O_4$ (lithium manganese oxide) $LiNiO_2$ (lithium nitrogen oxide) $LiFePO_4$ (lithium iron phosphate) $LiCo_{1/3}Ni_{1/3}Mn_{1/3}O_2$ $LiNi_{0.8}Co_{0.15}A_{10.05}O_2$	15-27%
Anodes	LiC_6 (graphite) $Li_4Ti_5O_{12}$	10-18%
Electrolyte	Ethylene carbonate Diethyl carbonate $LiPF_6$ (lithium hexafluorophosphate) $LiBF_4$ (lithium tetrafluorobate) $LiClO_4$ (lithium perchlorate)	10-16%
Separator	Polypropylene	3-5%
Case	Steel	40%

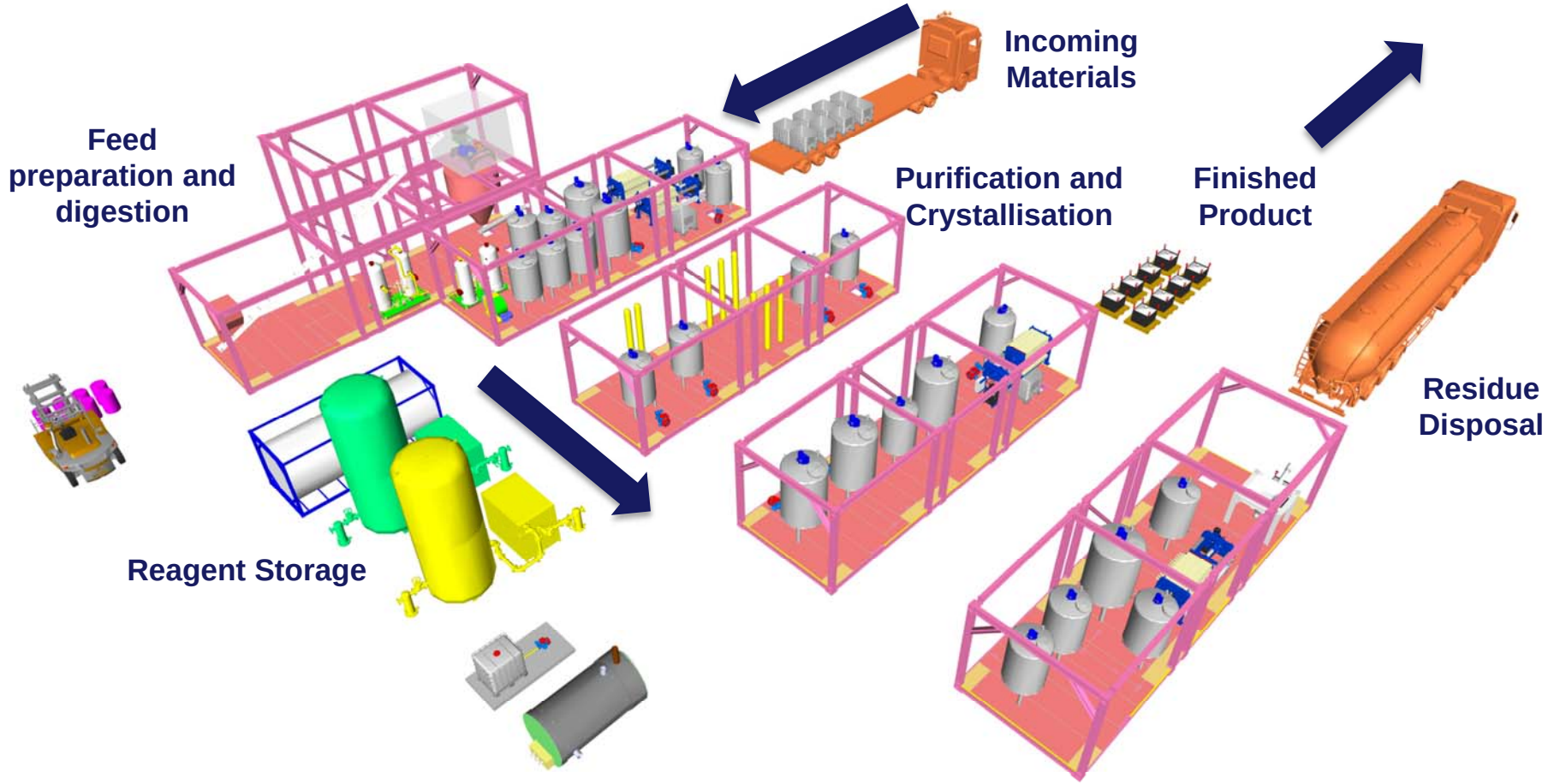
Source: Sullivan, L. & L.Gaines - 2010

Project Development Phasing



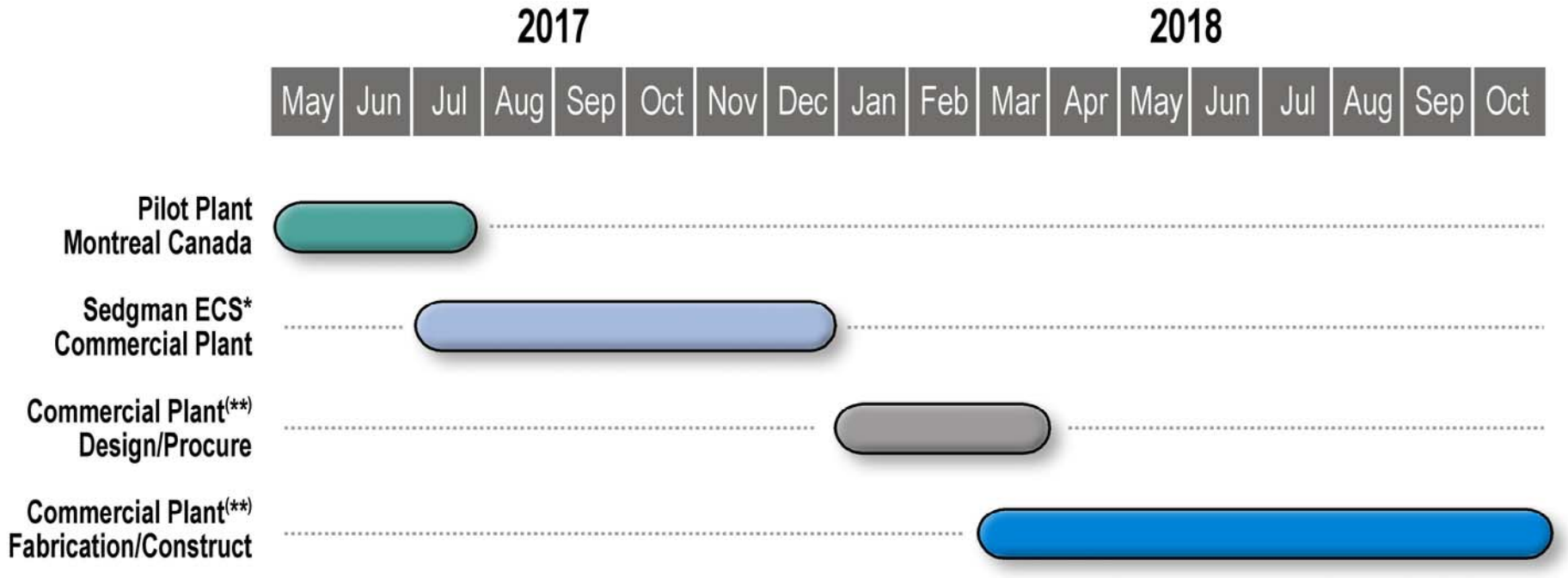
Running Partner/Site Selection Processes in parallel with test work and engineering programs

Commercial Plant Schematic



Plant footprint approx. 30m x 50m

Commercialisation Plan



Source: Neometals 2017

**Subject to Board Aprroval*

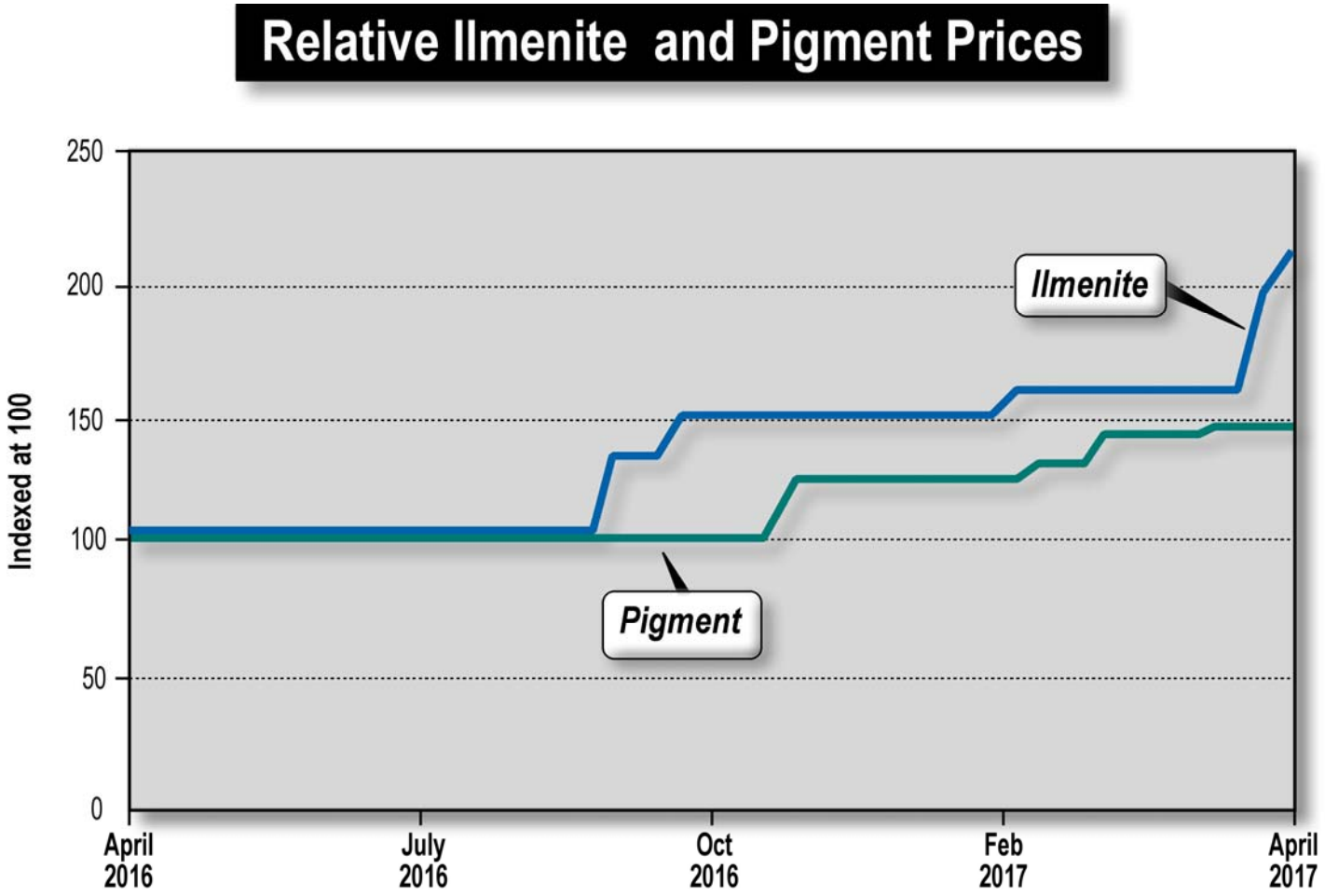
**Subject to FID*

Barrambie Titanium Project

100% Neometals

Strong demand/supply fundamentals

Ti



Source: Metal Bulletin - 2017

The titanium pigment industry is 10x as large as the lithium compound industry.

Growth = GDP

Globally declining grades and quality

Cost push price inflation

High Quality Resource

Ti

1

+150Mt @34% TiO_2

Lac Tio

RioTinto

2

47Mt @ 22% TiO_2

Barrambie*

Nm Neometals

3

18%

Tellnes

KRONOS®

* Mineral Resource Estimate (JORC2012) on page 29

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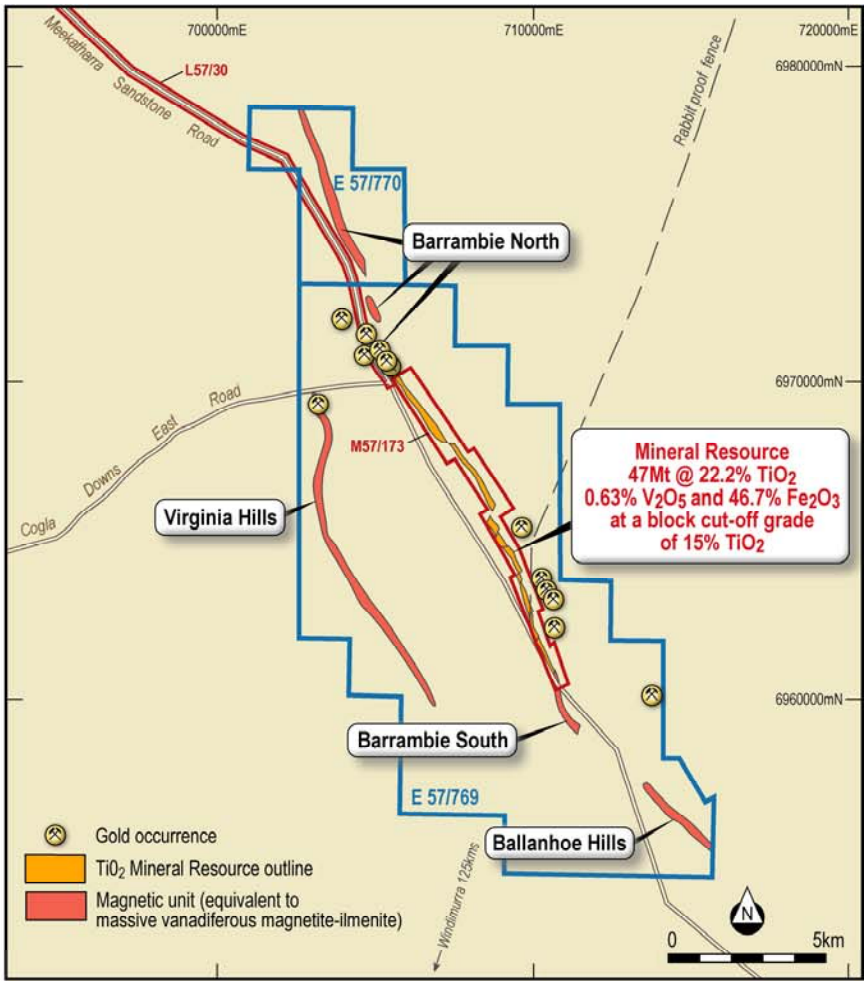
Li + Ti = Nm

Sources: Company Reports

Globally Significant Ti Resource



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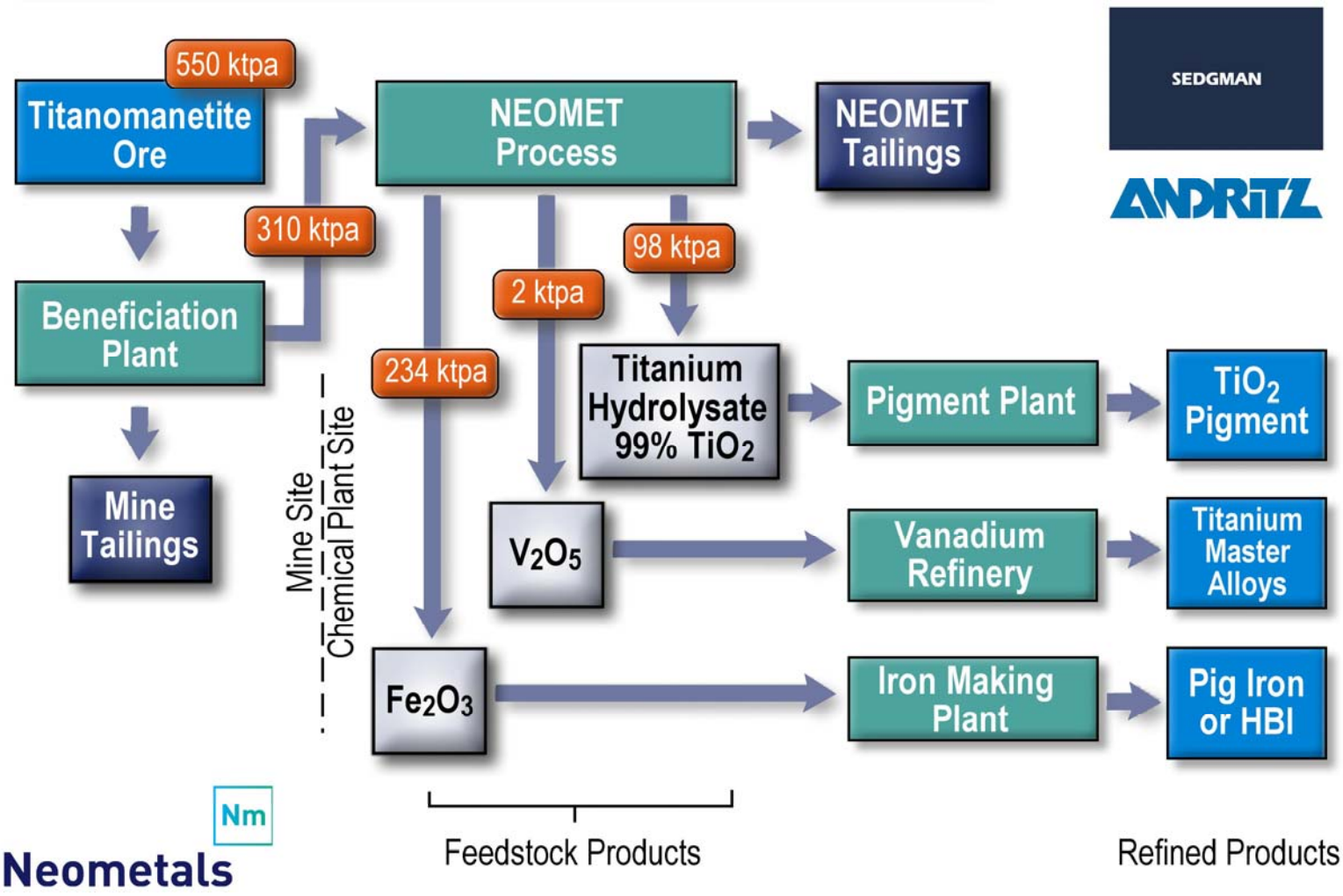
Li + Ti = Nm

Neomet Process:
3 Product Efficiency



SEDGMAN

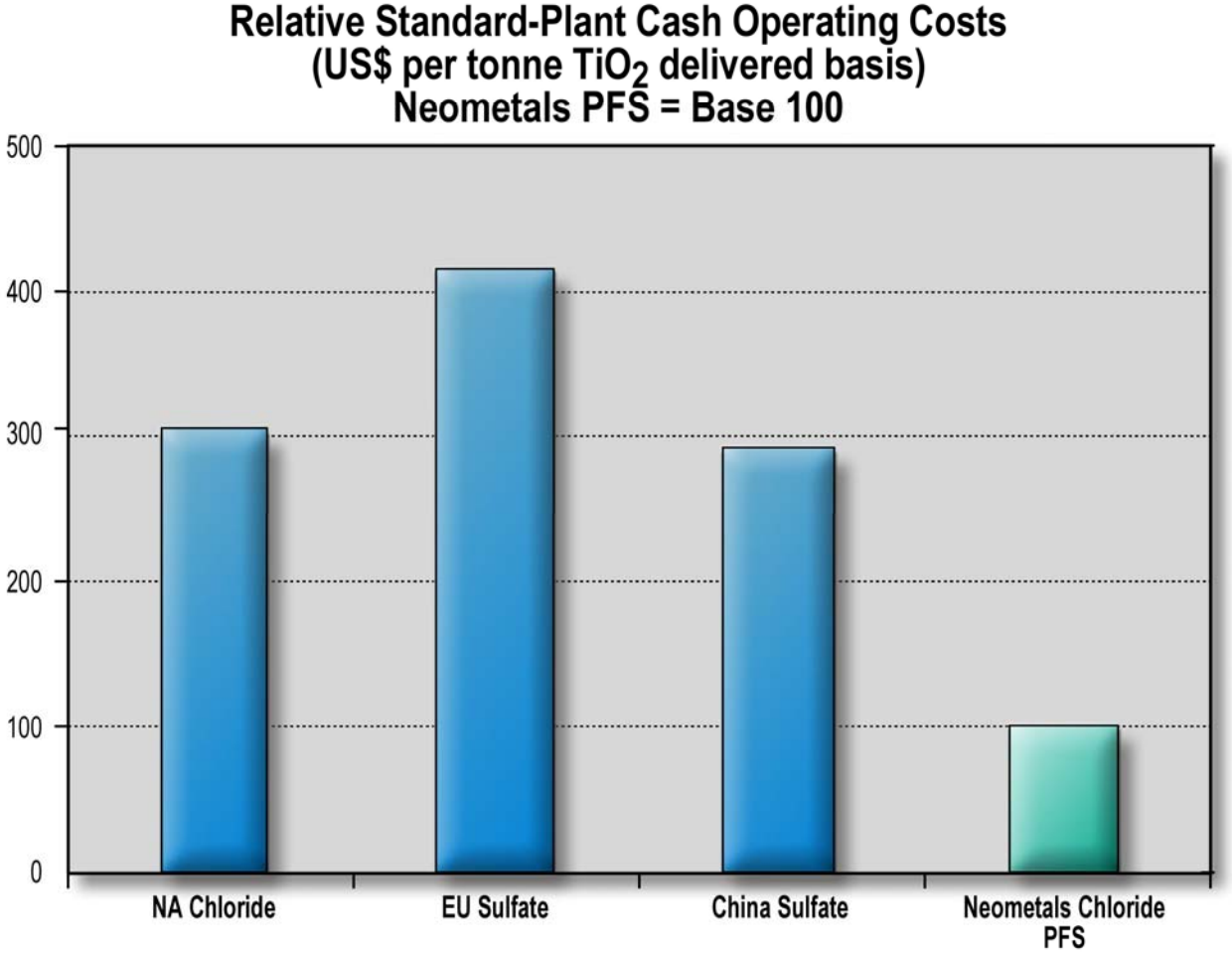
ANDRITZ

Strong
EPC &
OEM Alliance

Neometals

Li + Ti = Nm

Neomet Process: Patented, low-cost



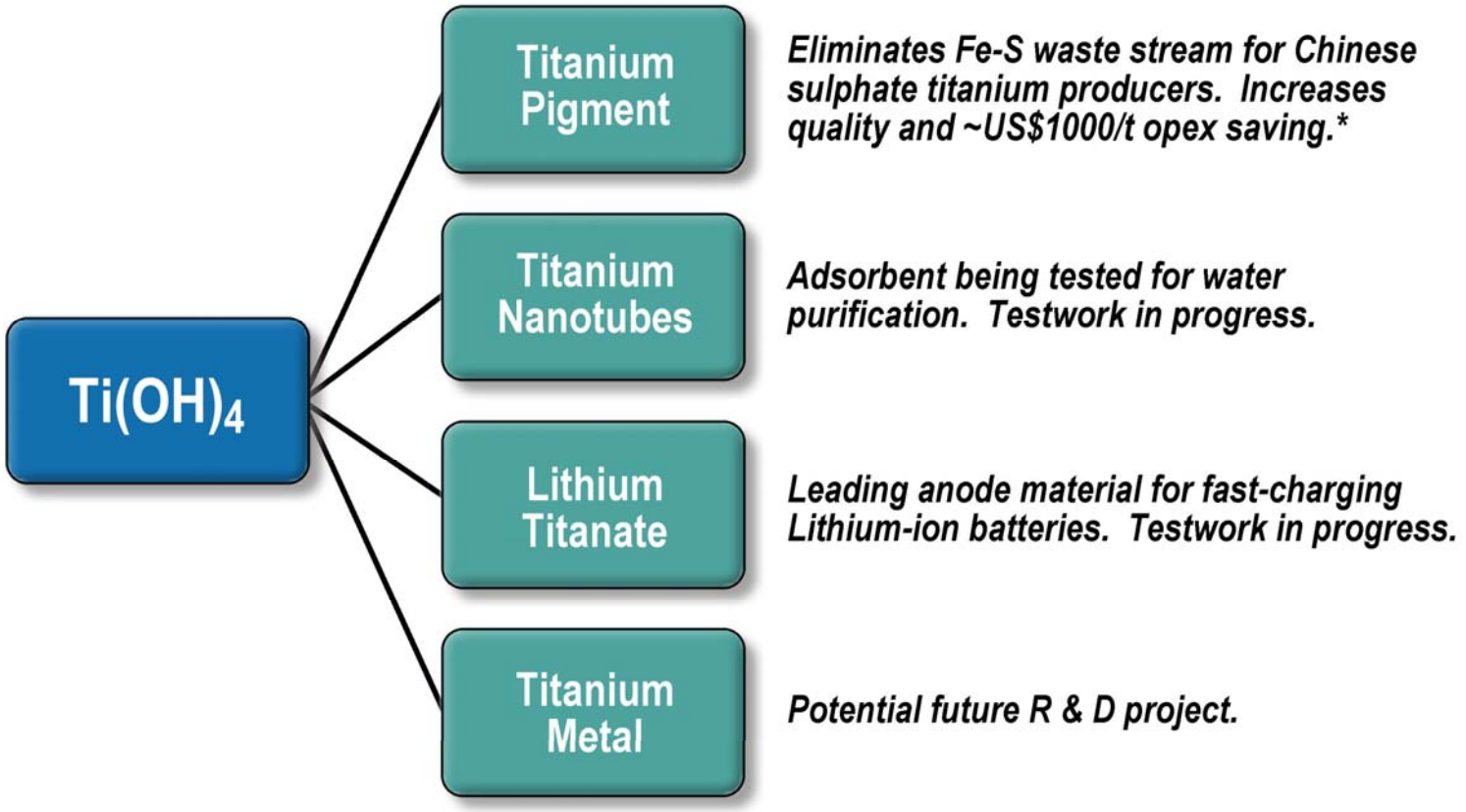
Disclaimer: The TZMI costs (NA, EU, China) are for standard plant models in each location. They are not specific costs, neither are they averages of the costs for a location. Q4 2014 TZMI information and Neometals scoping and pre-feasibility studies performed separately and may not be like-for-like analysis

Neometals

Li + Ti = Nm

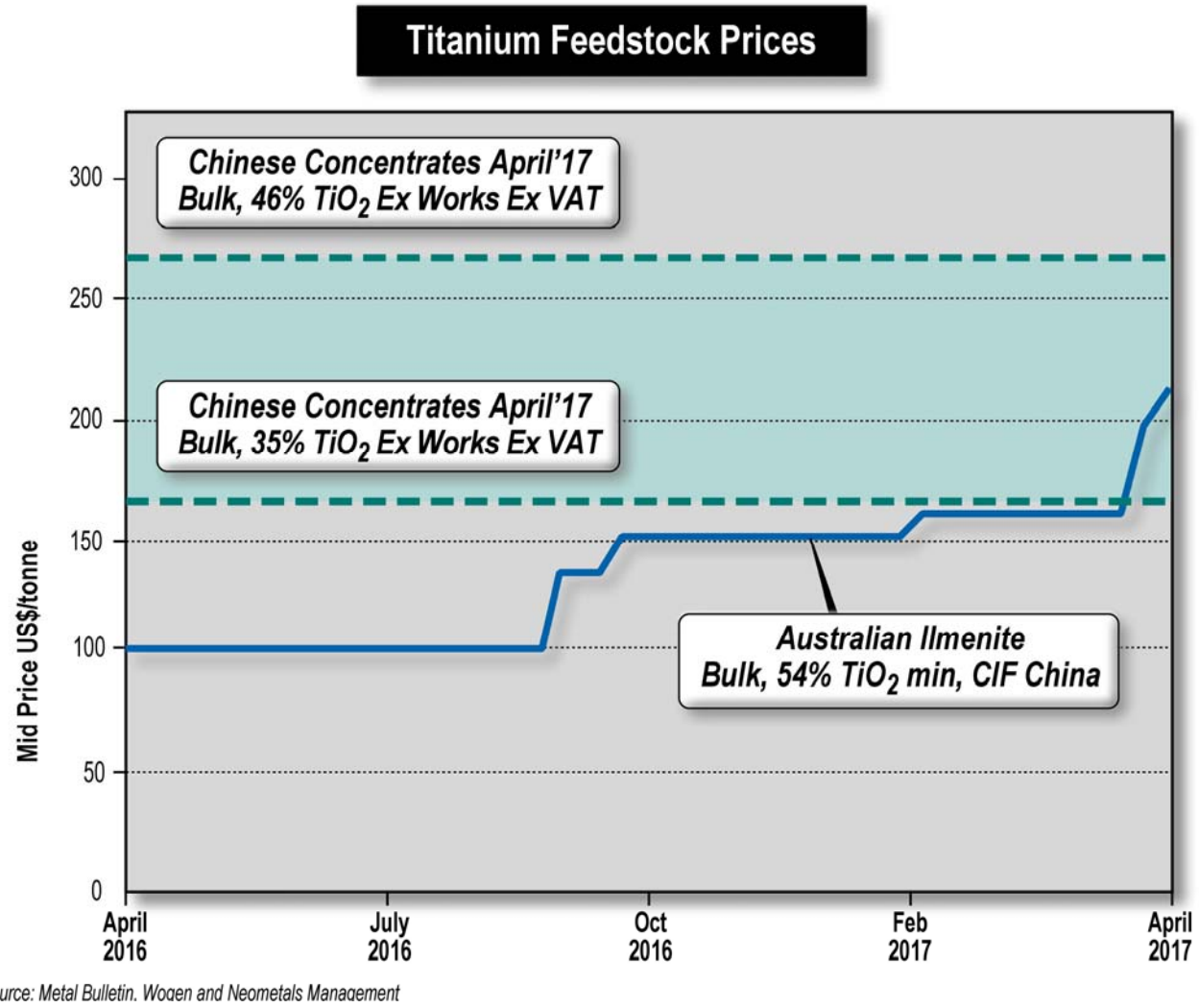
Why Titanium Hydrolysate ?

Premium Feedstock for broad application



[k] *Source: Neometals/Sedgman PFS August 2015*

Evaluating potential for Direct Shipping Ore and Toll-concentration in China



Source: Metal Bulletin, Wogen and Neometals Management

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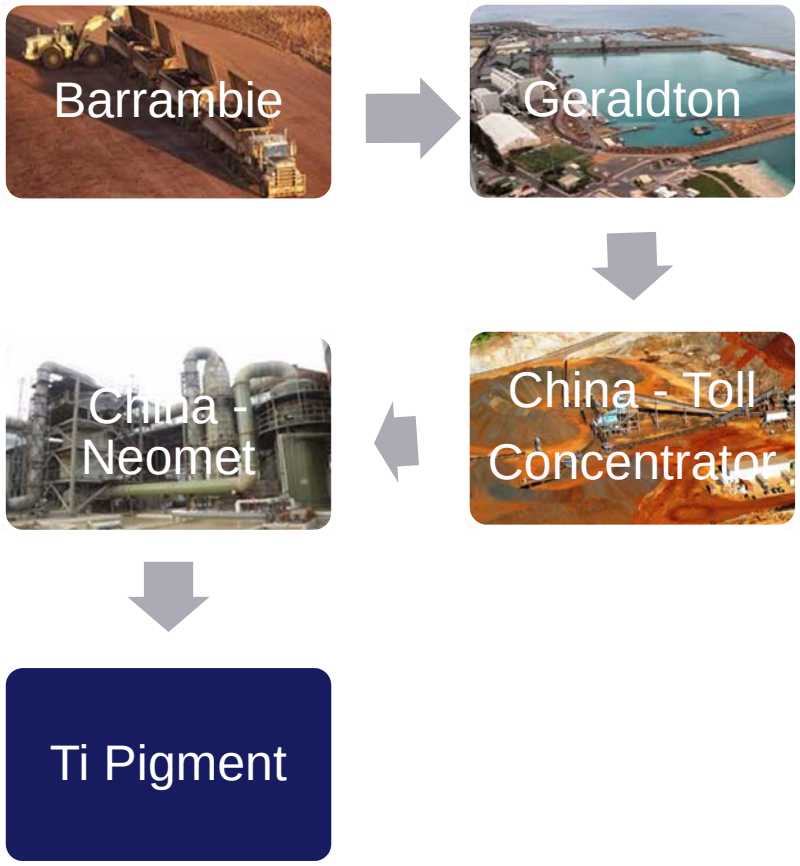
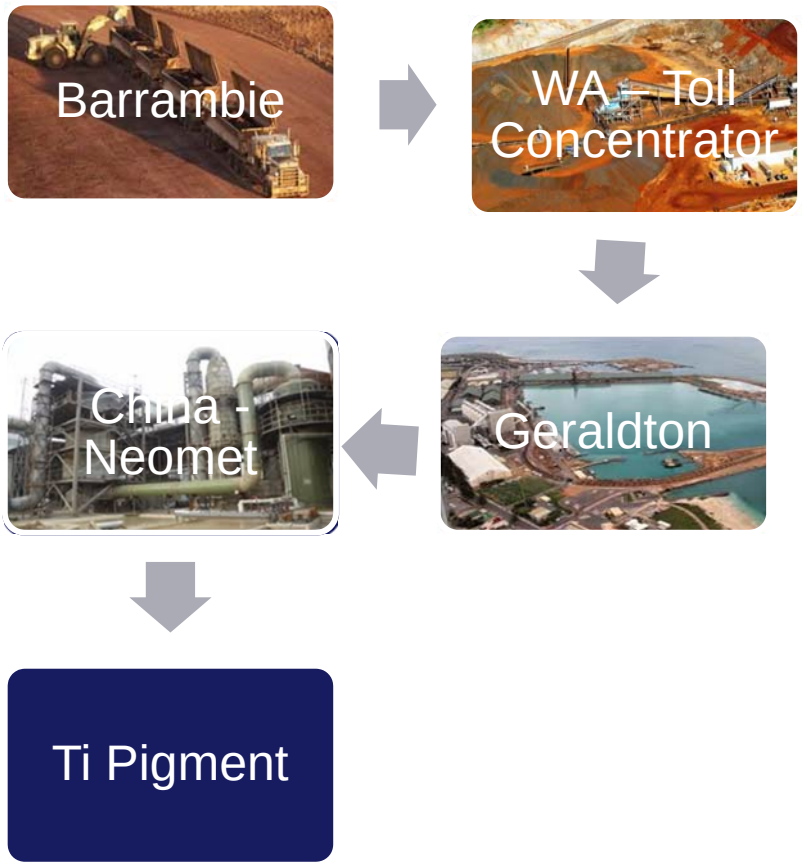
Potential Fast-Track Configurations

Direct Ship



Concentrate



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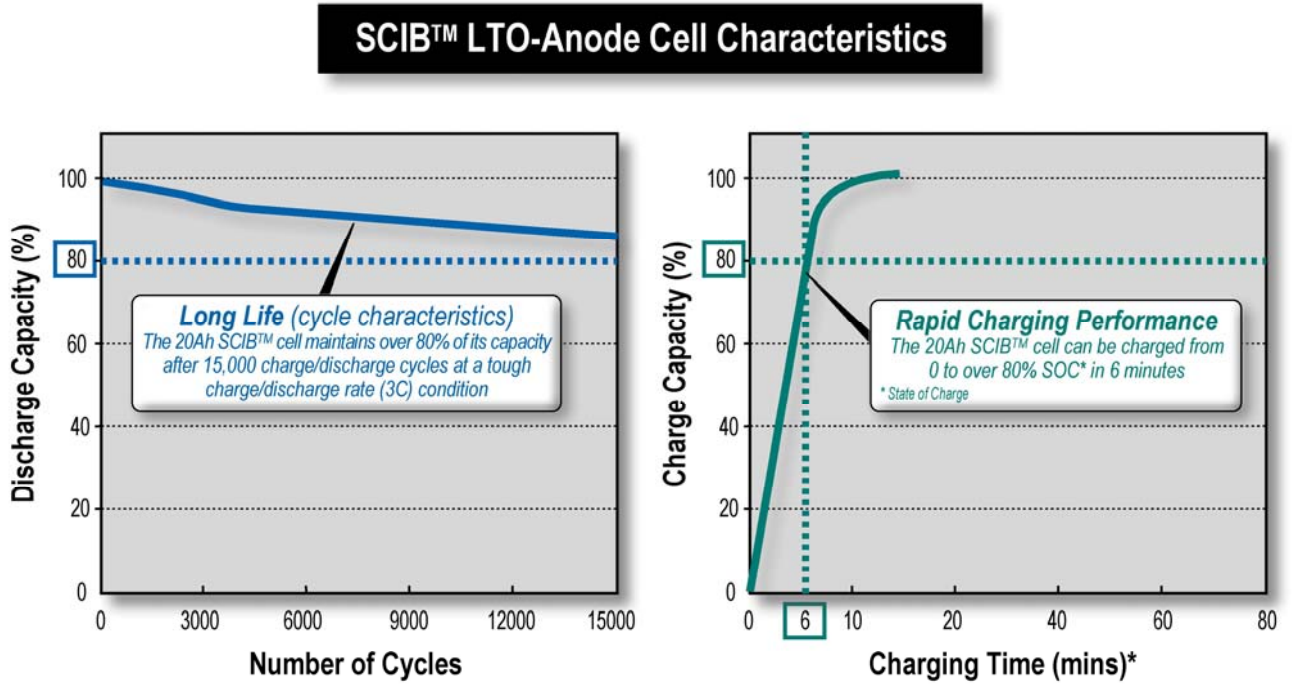
Li + Ti = Nm

Commercialisation Plan

(*) Subject to Board Approval

Research & Development

- Lithium-Titanate (LTO) has surface area of +100m^2/g vs 3m^2/g for Carbon = superfast charging = minutes not hours
- The Lithium-titanate nanocrystals are superstrong/stable/safe with effective lives of +40 years of daily cycling



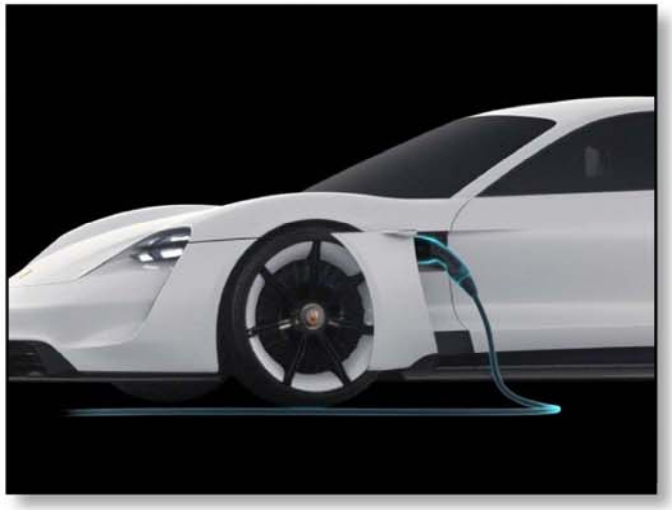
Source: Toshiba

* Performance depends on usage conditions

Research & Development

- We think Lithium-Titanate (LTO) will become the anode of choice for EV and conventional stop-start engines. Apparently so to do Porsche and Johnson Controls/Toshiba.

In just 15 minutes, the car can charge up to 80%, giving it a range of 250 miles (400km). With a full charge, it can drive for up to 310 miles (500km). Tesla's Model S with a 90 kWh battery has a range of 294 miles (475km) per charge according to EPA ratings.



Inductive charging tech enables the car to be charged in a unique way. To charge the vehicle, a user simply drives over a charging base plate in a garage and automatically the battery begins to repower.

Source: Porsche

Johnson Controls New Battery System for Advanced Start-Stop Vehicles, is a collaboration with Toshiba. Latest 12-volt Lithium-ion technology, will help automakers meet fuel efficency regulations

Source: Johnson Controls

Research & Development Plan

(*) Subject to Board Approval

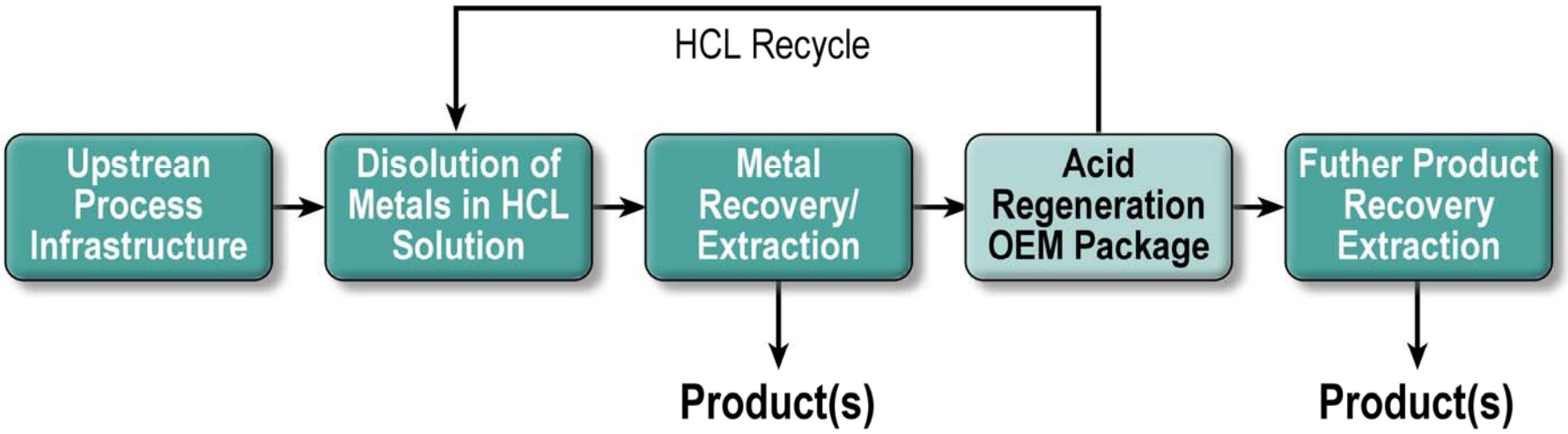
Technology Licensing

Neomet Process

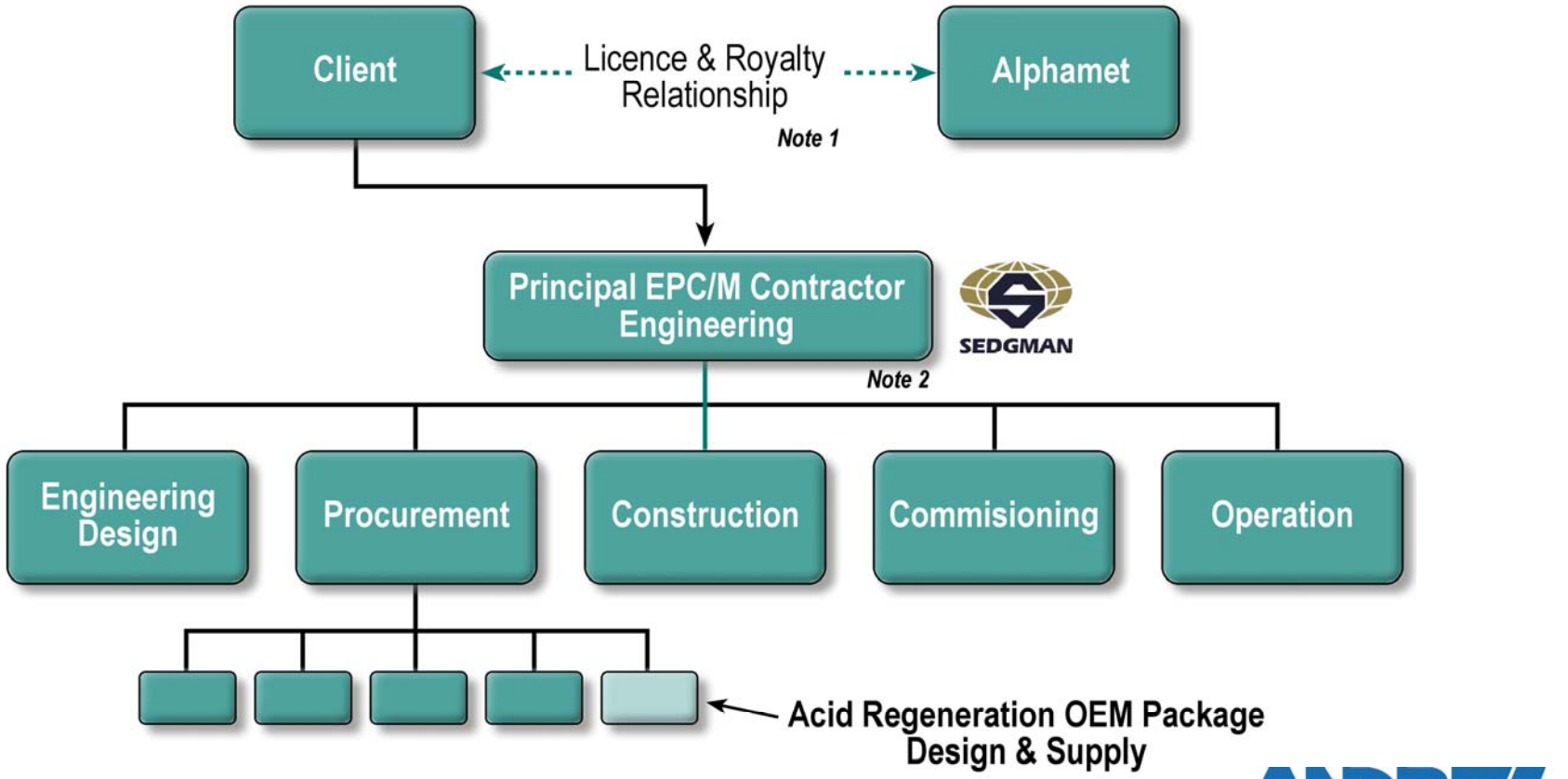
Neometals - 25% of royalty revenues

Patented Neomet Process

Commodity agnostic – developed in Canada for Ni-laterites, used commercially for treating refractory copper-gold concentrates, adapted for titanium concentrates.



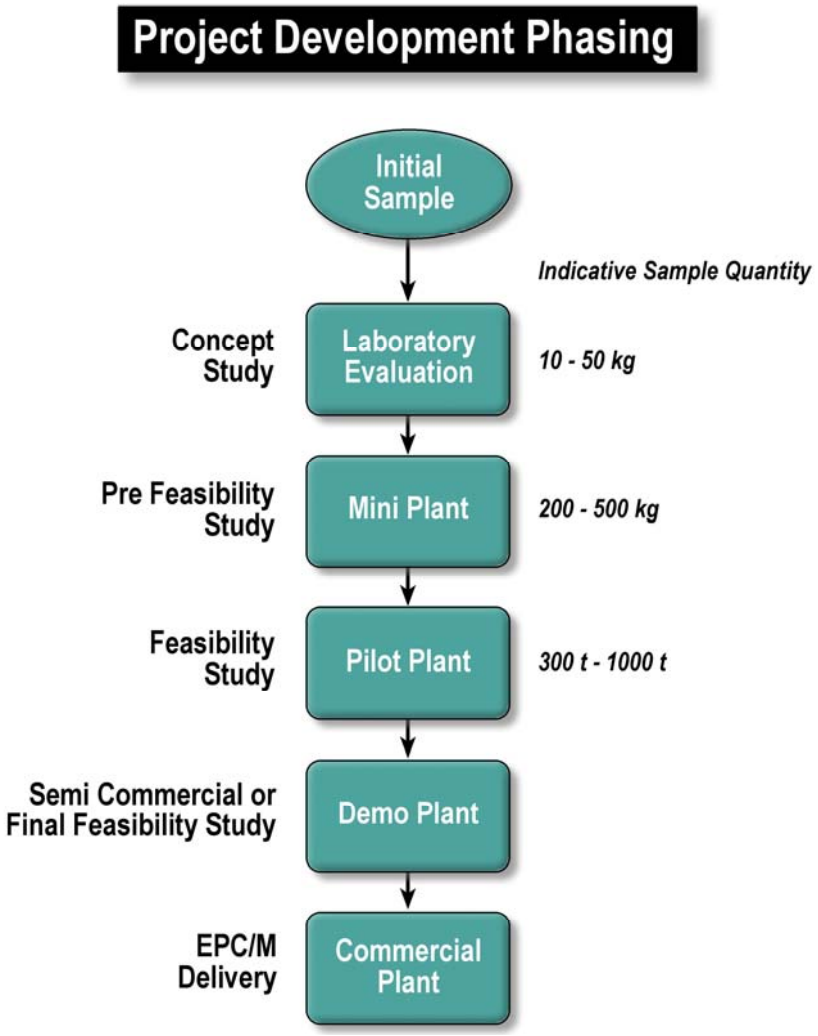
Commercialising technology with leading industry partners



Note 1: *The licence and royalty relationship may be managed through the EPC Contractor pending project and Client requirements*

Note 2: *The Principal Contractor will interface with the client directly and manage all delivery functions relating to the project (eg engineering, procurement and construction)*

Project Development Phasing



Neometals Testing Facility in Montreal

Laboratory scale set up (above) Pilot scale up (below)

Investment Proposition

Lithium: Cash, cashflow & growth options

☑

01

~A$53.5M Cash plus ~A$16.5M in receivables and investments

+

02

Cashflows from 13.8% Mt Marion Or Potential Sale

+

03

Potential to downstream process LiOH. **L**icence ELi to brine/hard rock producers. **L**i-Ion Battery Recycling Project

Neometals

Li + Ti = Nm

Titanium : A growth story for 2018

01
Demonstrated Technical Feasibility

+

02
Demonstrated Economic Viability

+

03
Demonstrate DSO/concentrate & $Ti(OH)_4$ Quality.

Obtain Strong Partners to Commercialise

Neometals

Li + Ti = Nm

Technology : developing a diversified portfolio

01
Obtained Strong Partners for Neomet Process

+

02
Commenced third party testing -Neomet Process

+

03
Obtain Strong Partners to Commercialise ELi/LiB Recycling

Neometals

Li + Ti = Nm

Thank you

www.neometals.com.au

Mineral Resource Estimate

Mt Marion Lithium deposit, as at October 2016, for a block cut-off grade of 0.5% Li_2O

Classification	Deposit	Tonnes (Mt)	Li_2O %	Fe %
Indicated	Area 1,2,2W	19.3	1.41	1.08
	Area 4	2.0	1.11	0.99
	Area 6	7.7	1.29	1.04
Indicated Total		28.9	1.35	1.06
Inferred	Area 1,2,2W	43.5	1.39	1.09
	Area 4	0.8	1.07	1.09
	Area 5	1.0	1.32	1.71
	Area 6	3.5	1.33	1.07
Inferred Total		48.9	1.38	1.10
	Grand Total	**77.8**	**1.37**	**1.09**

***NOTE**: Figures may not sum due to rounding. Significant figures do not imply an added level of precision.*

Feasibility Study - Financial Metrics

	FS
Life of Plant (LOP)	20 years
Pre-production Capital cost	**US$ 158 million****
Average Annual Pre-tax Net Cashflow	**US$ 82 million**
Pre-tax Internal Rate of Return	**51%**
Pre-tax NPV (12% real discount rate)	**US$ 481 million**
Payback of capital costs	2.6 years
Average Annual Production	14,000t LiOH 5,600t Li_2CO_3
Average Cost per tonne of LiOH	US$ 4,630/t
Average Cost per tonne of Li_2CO_3	US$ 5,345/t

** Capital costs valid at June 2016. Estimated to accuracy of ±15%, **Including** EPCM and Contingency
Assumptions: 2016 Spodumene feedstock US$440/t CIF (6% Li_2O); LiOH/Li_2CO_3 selling price US$11k/10k/t CIF respectively

Mineral Resource Estimate

Barrambie Ti-V deposit, as at September 2015, for a block cut-off grade of 15% TiO_2

Classification	Zone	Oxidation	MTonnes	Density (t/m^3)	TiO_2 (%)	V_2O_5 (%)	Fe_2O_3 (%)	Al_2O_3 (%)	SiO_2 (%)
Indicated	Eastern	Oxide	18.7	2.82	23.29	0.59	42.93	10.70	16.36
		Transition	8.7	3.52	23.11	0.61	50.80	7.34	12.99
		Fresh	2.4	3.85	21.77	0.56	52.90	5.99	12.84
		Sub-total	29.8	3.10	23.11	0.60	46.02	9.35	15.10
	Central	Oxide	3.5	2.95	16.84	0.92	49.82	11.06	14.91
		Transition	1.3	3.50	17.39	0.89	54.76	8.49	12.15
		Fresh	0.1	4.04	15.59	0.88	59.93	7.22	10.96
		Sub-total	4.9	3.12	16.95	0.91	51.40	10.28	14.08
		Total	34.7	3.11	22.25	0.64	46.77	9.48	14.95
Inferred	Eastern	Oxide	2.6	2.71	20.88	0.48	40.00	12.20	19.42
		Transition	3.3	3.29	23.04	0.59	47.51	8.62	14.45
		Fresh	5.5	3.71	22.82	0.57	47.50	8.39	14.57
		Sub-total	11.4	3.36	22.44	0.55	45.78	9.33	15.65
	Central	Oxide	0.1	3.07	16.64	0.98	53.63	9.96	13.33
		Transition	0.4	3.47	18.36	0.86	54.15	8.79	12.43
		Fresh	0.7	3.86	17.30	0.91	53.48	9.44	13.17
		Sub-total	1.2	3.64	17.55	0.90	53.71	9.30	12.96
		Total	12.5	3.38	21.99	0.58	46.51	9.32	15.40
		Grand Total	**47.2**	**3.18**	**22.18**	**0.63**	**46.70**	**9.44**	**15.07**

Neometals

Li + Ti = Nm

***NOTE**: Figures may not sum due to rounding. Significant figures do not imply an added level of precision.*

Pre-feasibility Study - Financial Metrics (*)

Life of Mine (LOM)	19.6 years
Pre-production Capital cost (excluding EPCM and Contingency)	A$ 549 million
Average Annual Pre-tax Net Cashflow	A$ 123 million
Pre-tax Internal Rate of Return	21%
Pre-tax NPV (12% real discount rate)	**A$ 355 million**
Payback of capital costs	3.9 years
Average Annual Production	98,000t TiO_2 2,000t V_2O_5 234,000t Fe_2O_3
Cash Operating Cost per tonne of paid TiO_2 net of co-product credit	**US$ 572/t**

(*) Estimated to accuracy of ±25%
Assumptions: US$1,838/t TiO2; US$14,873/t V2O5, US$520/t Fe2O3 Pigment, A$/US$0.75, Royalties (State/Technology) 10% Gross