Neometals

The Evolution of Lithium®

Investor Presentation

August 2017

Disclaimer

Summary information: This document has been prepared by Neometals Ltd ("Neometals" or "the Company") to provide summary information about the Company and its associated entities and their activities current as at the date of this document. The information contained in this document is of general background and does not purport to be complete. It should be read in conjunction with Neometals' other periodic and continuous disclosure announcements lodged with the Australian Securities Exchange, which are available at www.asx.com.au.

Forward-looking information: This document contains opinions, projections, forecasts and other statements which are inherently subject to significant uncertainties and contingencies. Many known and unknown factors could cause actual events or results to differ materially from the estimated or anticipated events or results included in this document. Recipients of this document are cautioned that forward-looking statements are not guarantees of future performance.

Any opinions, projections, forecasts and other forward-looking statements contained in this document do not constitute any commitments, representations or warranties by Neometals and its associated entities, directors, agents and employees, including any undertaking to update any such information. Except as required by law, and only to the extent so required, directors, agents and employees of Neometals shall in no way be liable to any person or body for any loss, claim, demand, damages, costs or expenses of whatever nature arising in any way out of, or in connection with, the information contained in this document.

Mount Marion Project: This document contains certain historical and forecast financial and production information regarding the Mount Marion Project and Reed Industrial Minerals Pty Ltd, the owner of the Project (Neometals: 13.8% shareholding). Neometals was not involved in preparing this information, which is taken from a 16 August 2017 announcement by Mineral Resources Limited, the operator of the Project (via its wholly owned subsidiary, Process Minerals International Pty Ltd). However, Neometals is not aware of any reason why that information is incorrect as released by Mineral Resources Limited.

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

Not financial product advice: This document is for information purposes only and is not financial product or investment advice, nor a recommendation to acquire securities in Neometals. It has been prepared without taking into account the objectives, financial situation or needs of individuals. Before making any investment decision, prospective investors should consider the appropriateness of the information having regard to their own objectives, financial situation and needs and seek legal and taxation advice appropriate to their jurisdiction.

Investment risk: An investment in securities in Neometals is subject to investment and other known and unknown risks, some of which are beyond the control of Neometals. The Company does not guarantee any particular rate of return or the performance of Neometals. Investors should have regard to the risk factors outlined in this document.

Competent Persons Statement:

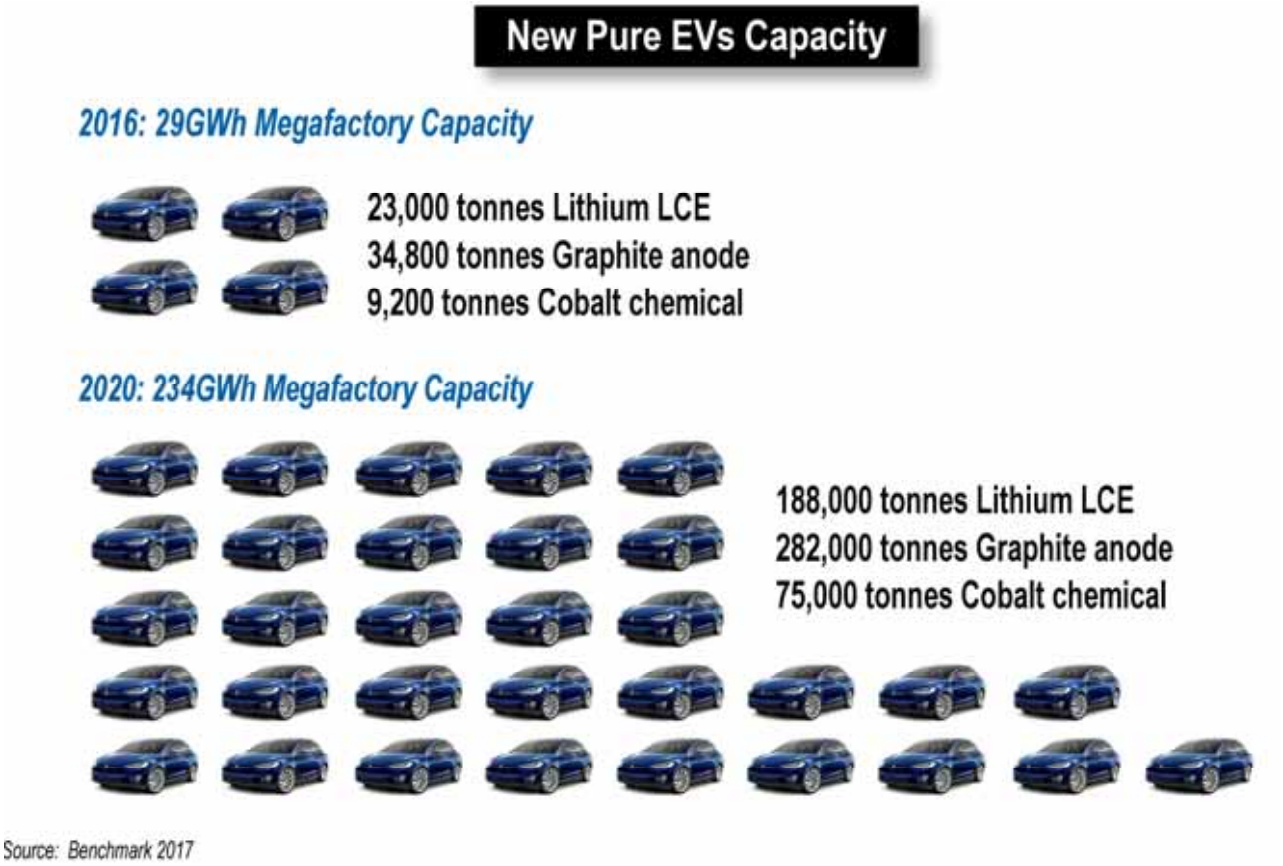
The information in this document that relates to "Barrambie Mineral Resource Estimates", "Barrambie Pre Feasibility Study Results", "Mt Marion Mineral Resource Estimates" and "Lithium Battery Recycling – Scoping Study Results" are extracted from ASX Releases set out below. The Company confirms that it 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.

All the right elements

Investment Thematic – Conservative Exposure to Energy Storage Revolution



Source: Benchmark 2017

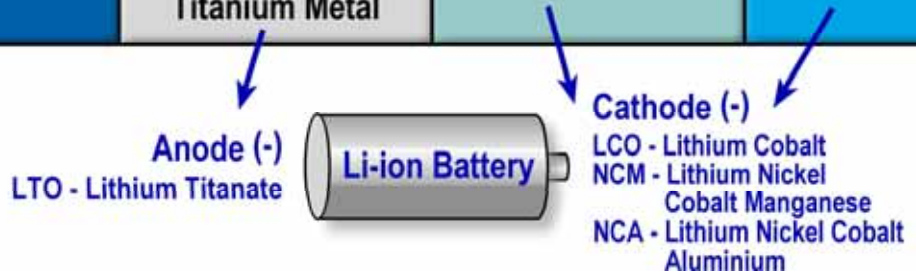
8X Growth

↓

Needs +3X Lithium

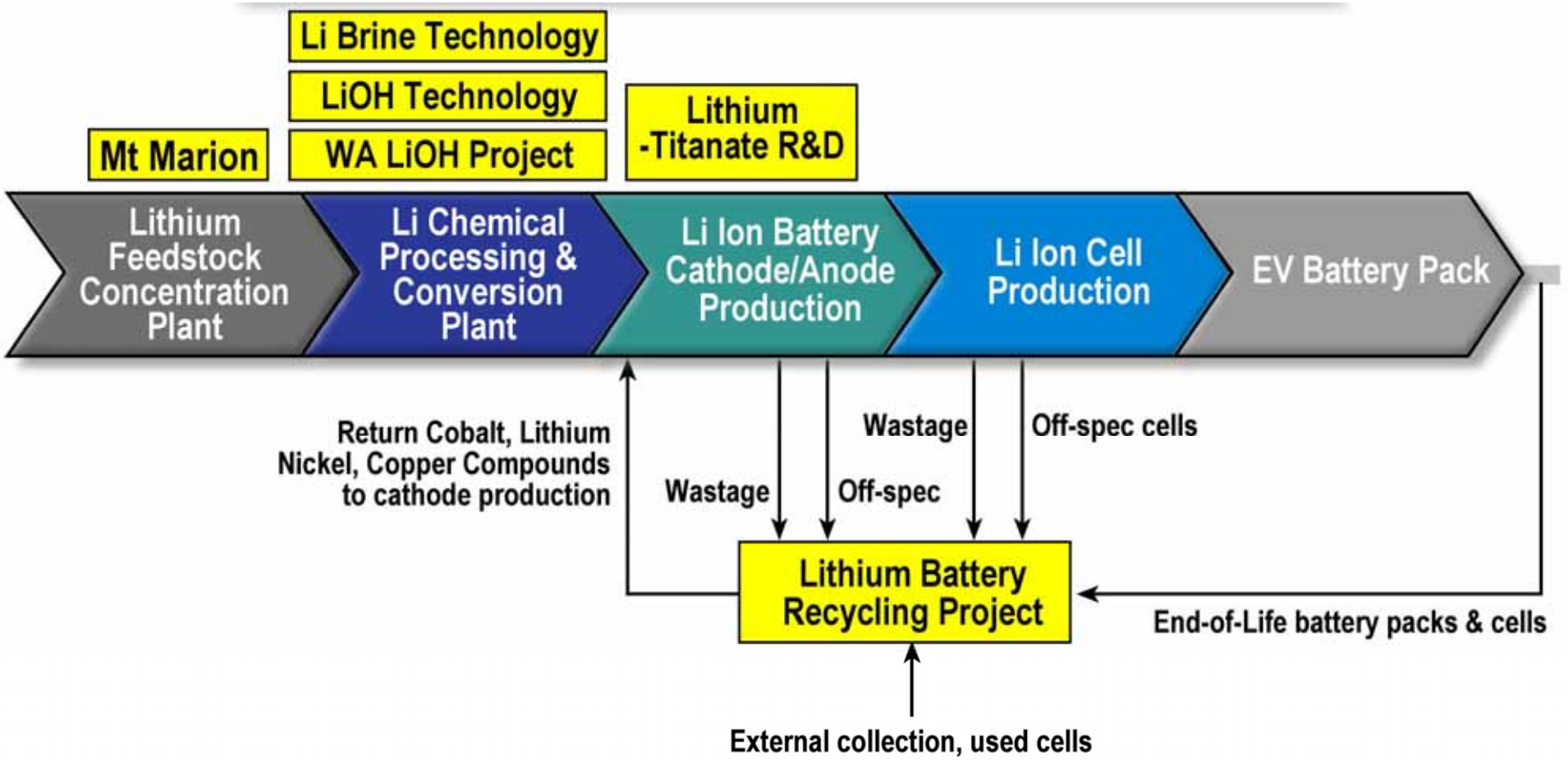
Focus on Li-Ion Battery Commodities

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



All the right elements

Our Positions in the Supply Chain



Downstream processing adds value

Neometals

Li + Ti = Nm

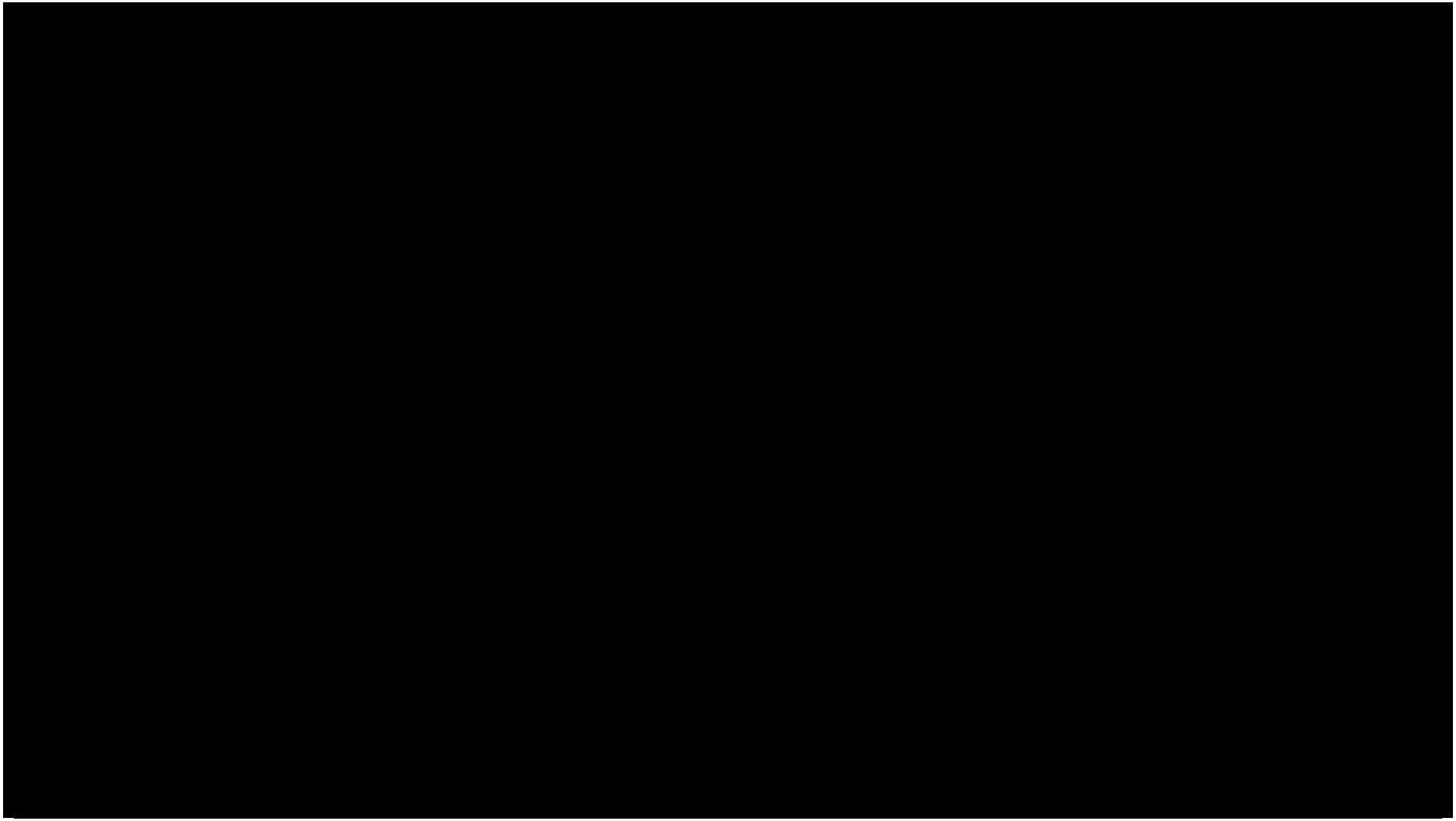
Mt Marion Lithium Operation

Neometals 13.8%
through Reed Industrial Minerals Pty Ltd

Neometals

Li + Ti = Nm

World’s largest lithium concentrator



Neometals

Li + Ti = Nm

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

- ✓ JORC Resource 77.8Mt @ 1.37% Li_2O*
- ✓ 2HFY17 Shipments 116,000 dmt

- ✓ 1HFY18 EBITDA A$72M** (100% basis)
- ✓ C1 costs A$369/t CIF (~US$290/t)
- ✓ Total costs A$460/t CIF (~US$360/t)

MINERAL RESOURCES

- ✓ Leading BOO Provider
- ✓ Complete Mine-to-Port Operator

赣锋锂业 GanfengLithium

- ✓ Leading Lithium Converter
- ✓ LOM Take or Pay Contract*

Neometals

* Refer supporting information

** Information taken from ASX:MIN announcement 16/8/2017. See disclaimer.

Li + Ti = Nm

Downstream processing
WA-based LiOH Project

Neometals 100%

Offtake Option for ~50kt spodumene concentrates

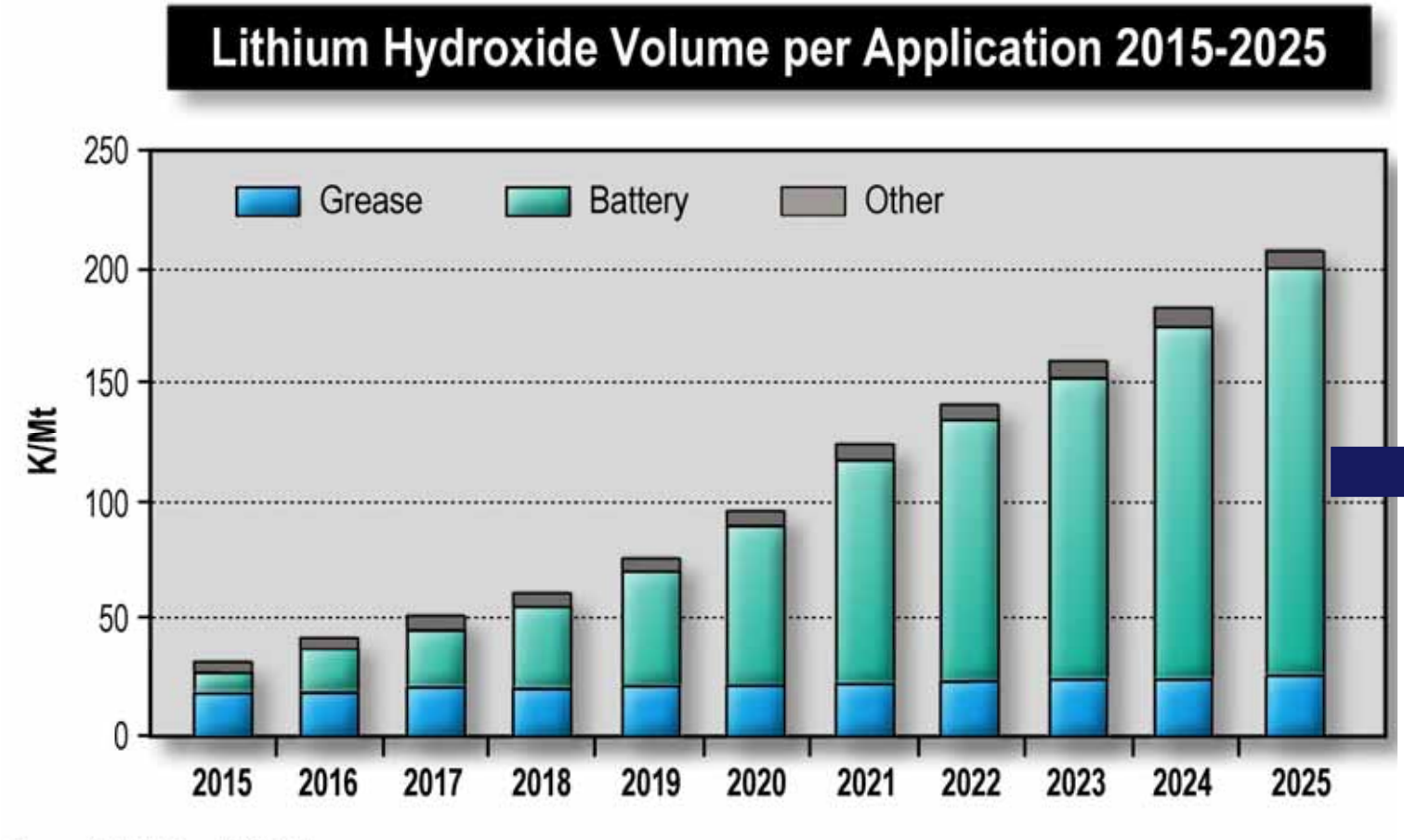
Neometals

Ti + Li - Nm

Secure LiOH supply for the West

Li

Battery makers users **want** LiOH from spodumene converted outside China



8X Growth

Source: Global Lithium, NLGI, BMU

Neometals

Ti + Li - Mn

Commercialisation Plan

Li

- Local plant to minimise transport from Mt Marion
  7t spodumene concentrate needed for 1t of LiOH
- Utilise local natural gas, sulfuric acid and workforce
- Conventional flowsheet -Remove technology risk – speed to market

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

Neometals

Li + Ti = Nm

Downstream processing
Lithium Titanate R&D

Neometals 100%

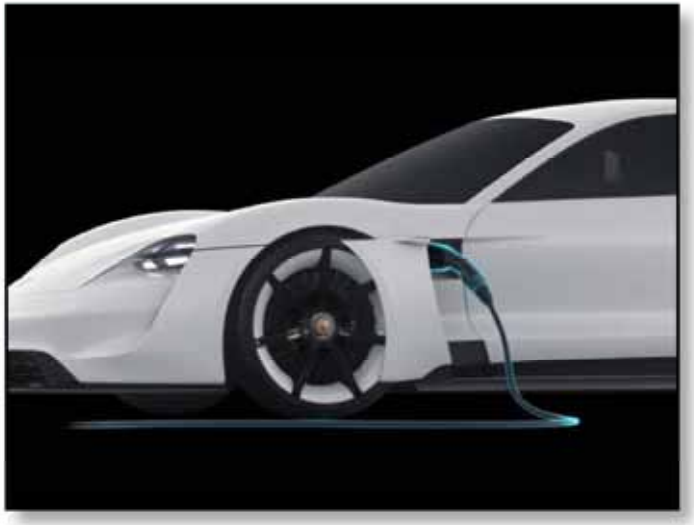
Neometals

Li + Ti = Nm

Superior Anode Material for EV

Li Ti

Super Fast Charging
80% < 15 mins



Wireless Charging
Induction Pad

Unparalled Life
Extremely Safe

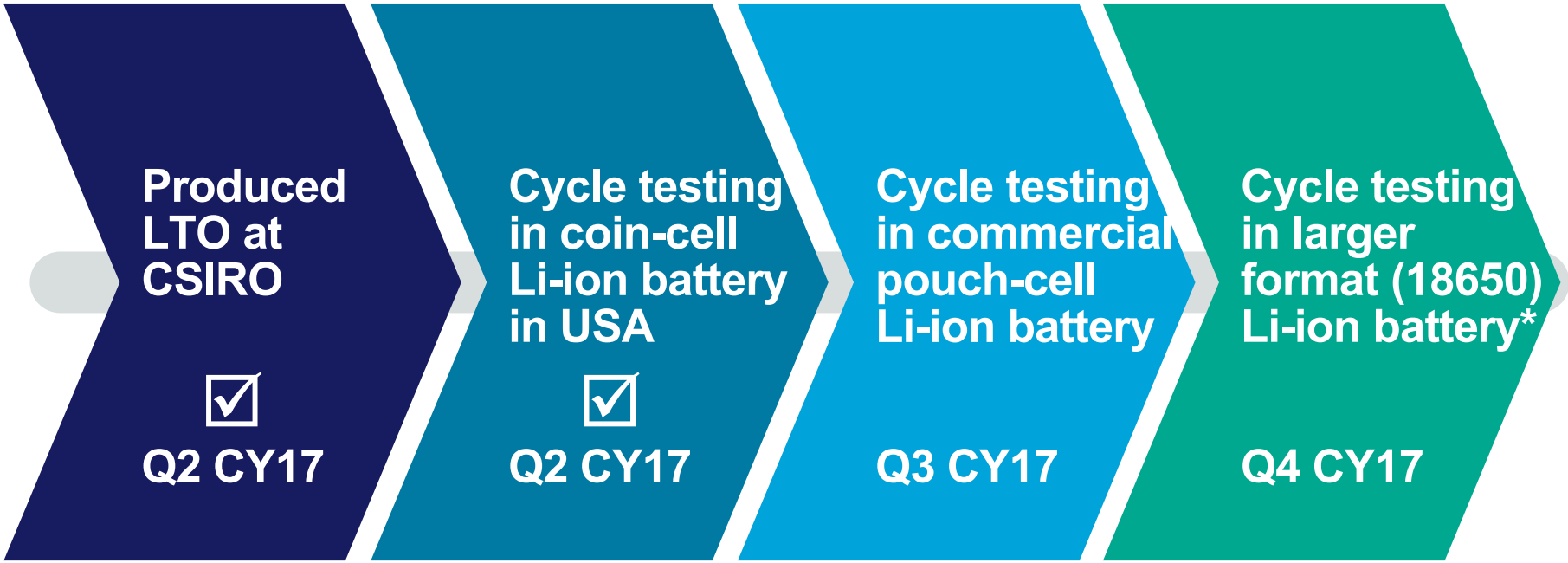
Source: Porsche

Source: Johnson Controls

Neometals

Li + Ti = Nm

Research & Development Plan



(*) Subject to Board Approval

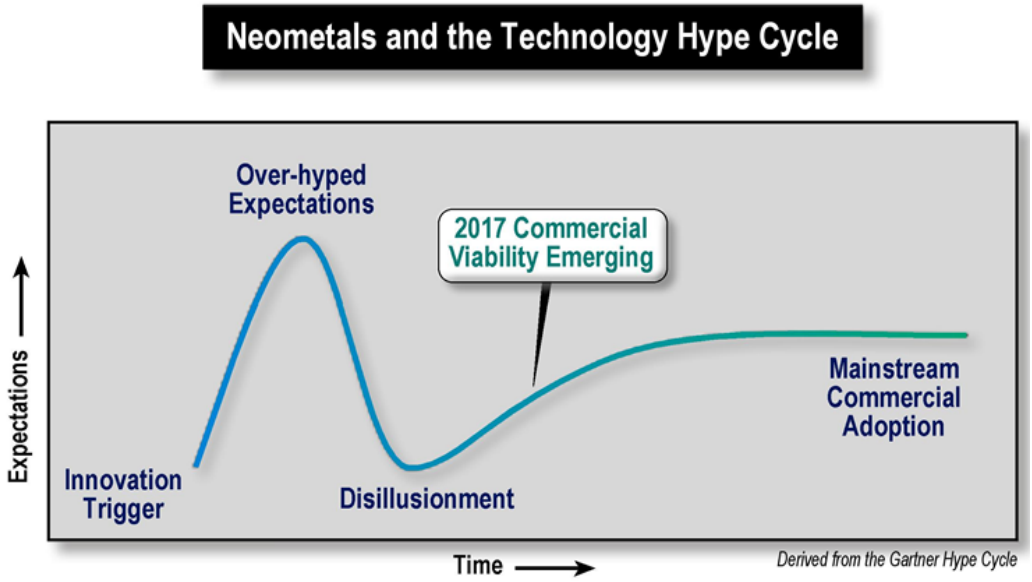
Intellectual Property Portfolio

Neometals

Li + Ti = Nm

Our Approach

- R&D Projects must :
  - address real market opportunity,
  - create a sustainable competitive advantage
  - Have strong business case
- Conduct Engineering Cost Studies asap to not waste time/money



Source: Nixor.co.uk

Downstream processing
Direct Extraction from Brine

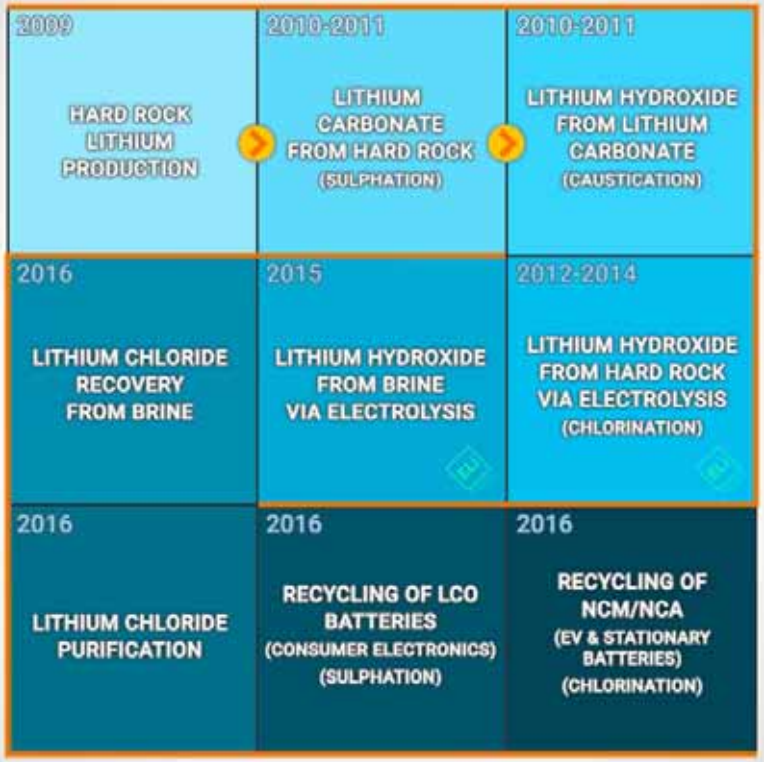
100% Neometals

Replace Evaporation with faster, friendlier LiCl recovery process

Neometals

Li + Ti = Nm

Direct Extraction via Adsorption



- Pat pending **Titanate** adsorbent
- Quick load/strip cycle – 30mins
- Complete rejection of sodium
- High recovery of Lithium 53-79%
- Returns water to salar, no evaporation
- Next Step - Proof of Scale

Downstream processing

Direct Conversion to LiOH

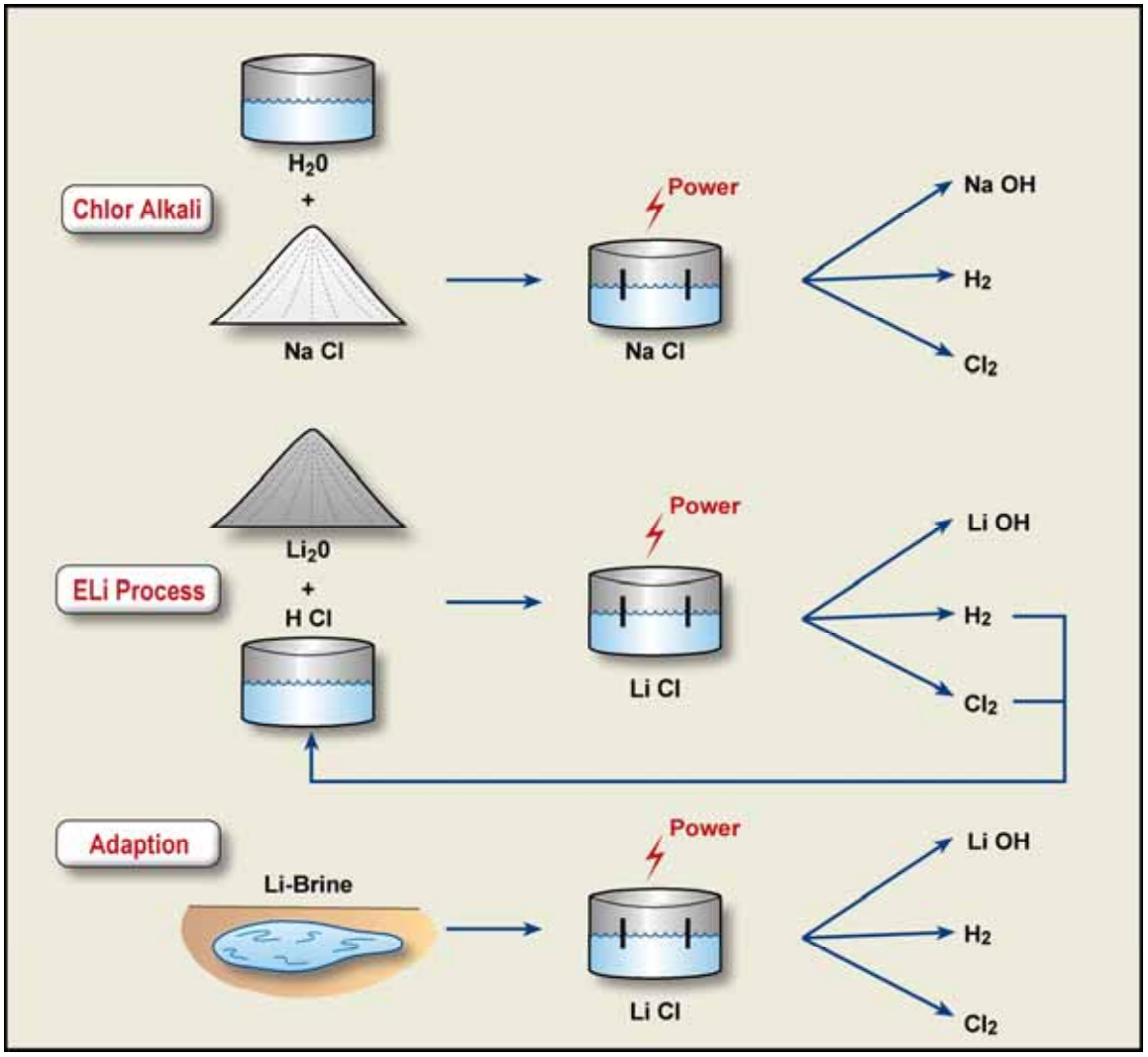
Neometals 70%

Mineral Resources Ltd 30%

Neometals

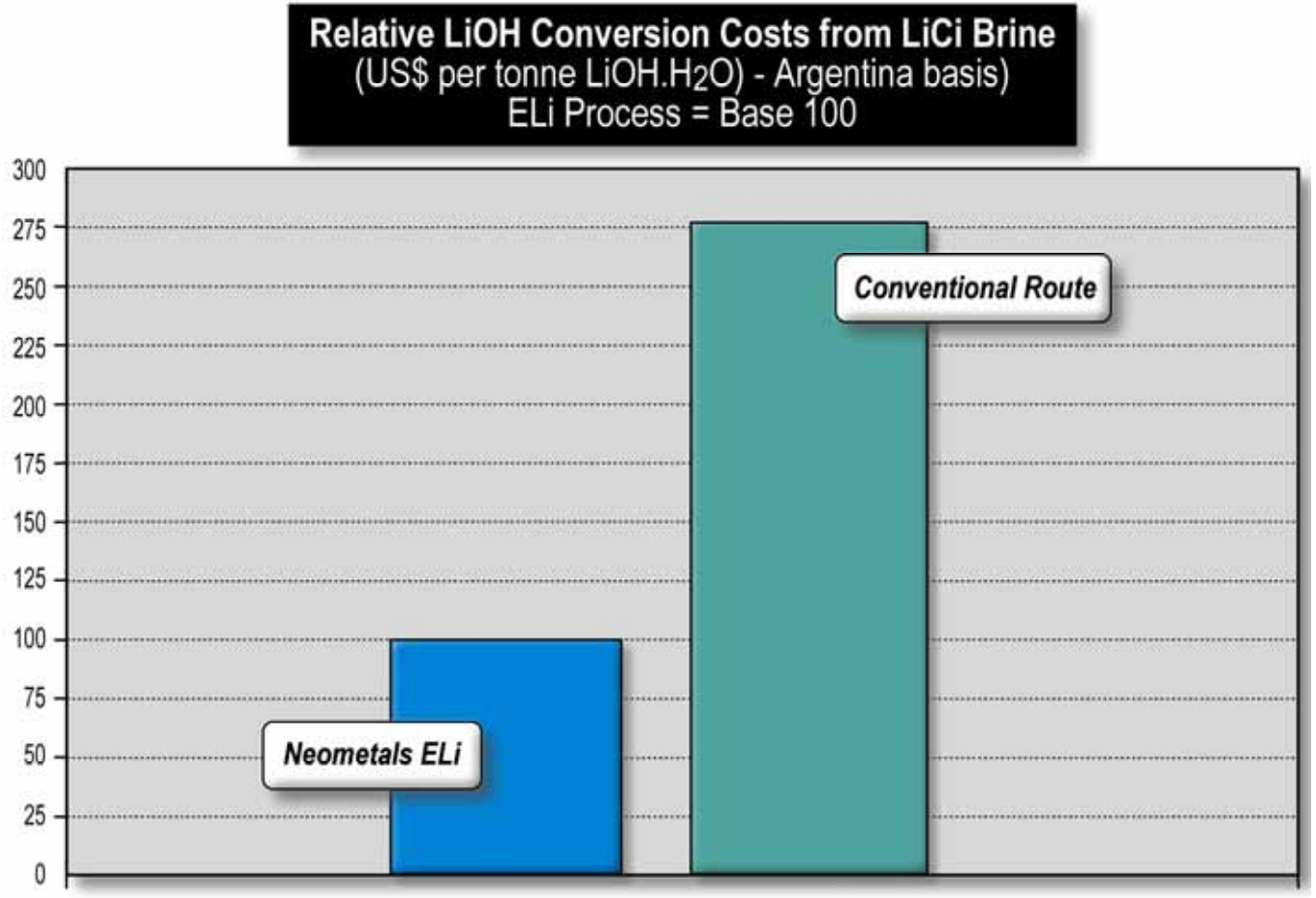
Li + Ti = Nm

Patented ELi Process - conversion of LiCl to LiOH from any source



IP
- 1 Granted patents (AU)
- 18 Pats pending

Gamechanger for LiOH from brine production



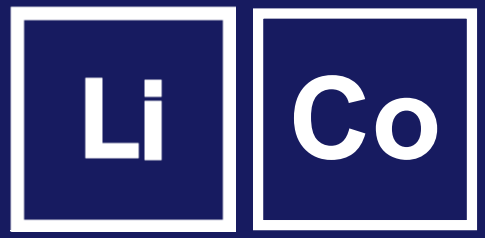
Business model is to licence to existing brine producers in return for royalty stream:

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

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

Neometals

Li + Ti = Nm



Downstream processing

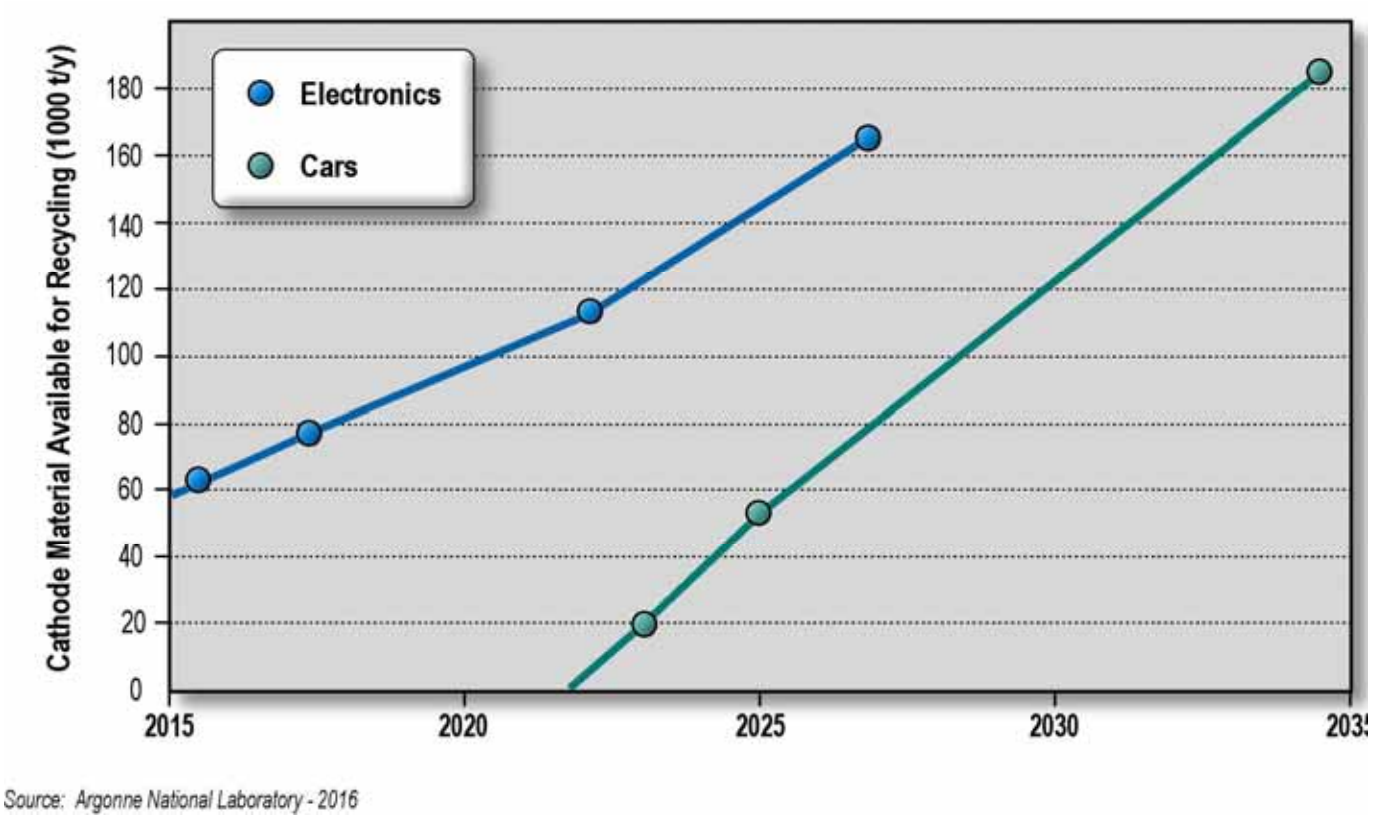
Lithium Battery Recycling

Neometals 50% of IP (3 US Prov. Pats)

Exclusive licence to commercialise

Li Battery Recycling Rationale

Li Co



Source: Argonne National Laboratory - 2016

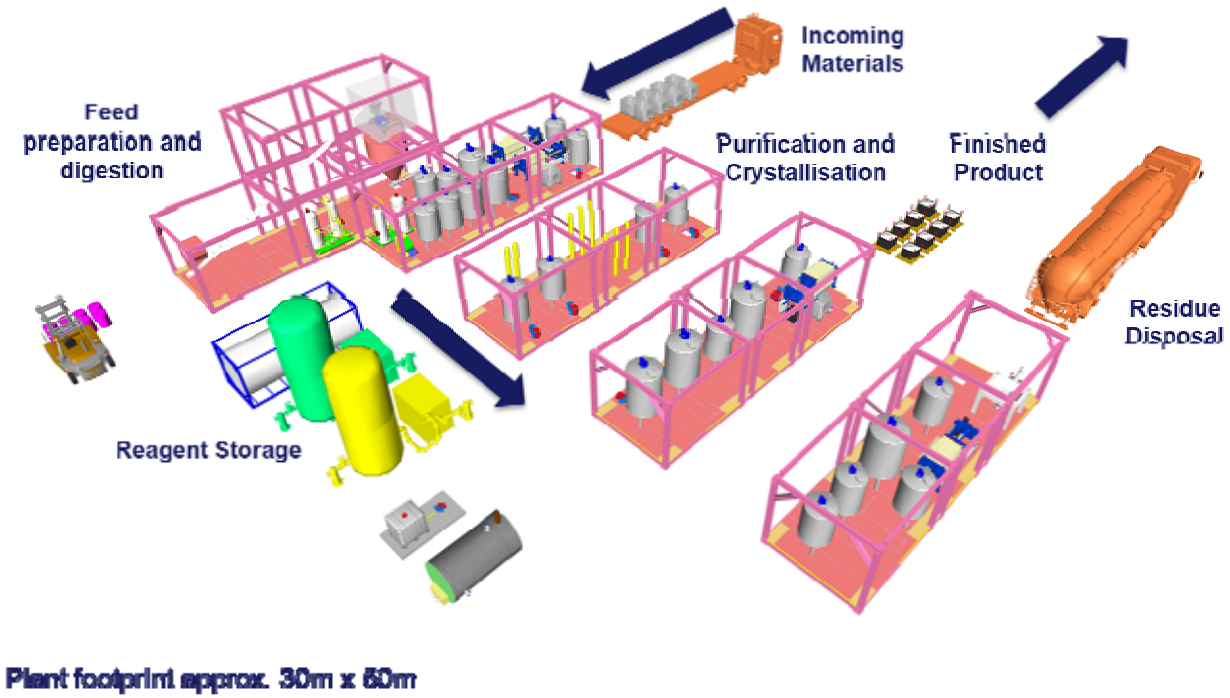
Estimated
< 5%
Recyled

Consumer Electronics LCO cathode = 20% Co

Neometals

Li + Ti = Nm

Plant Schematic and Study Results



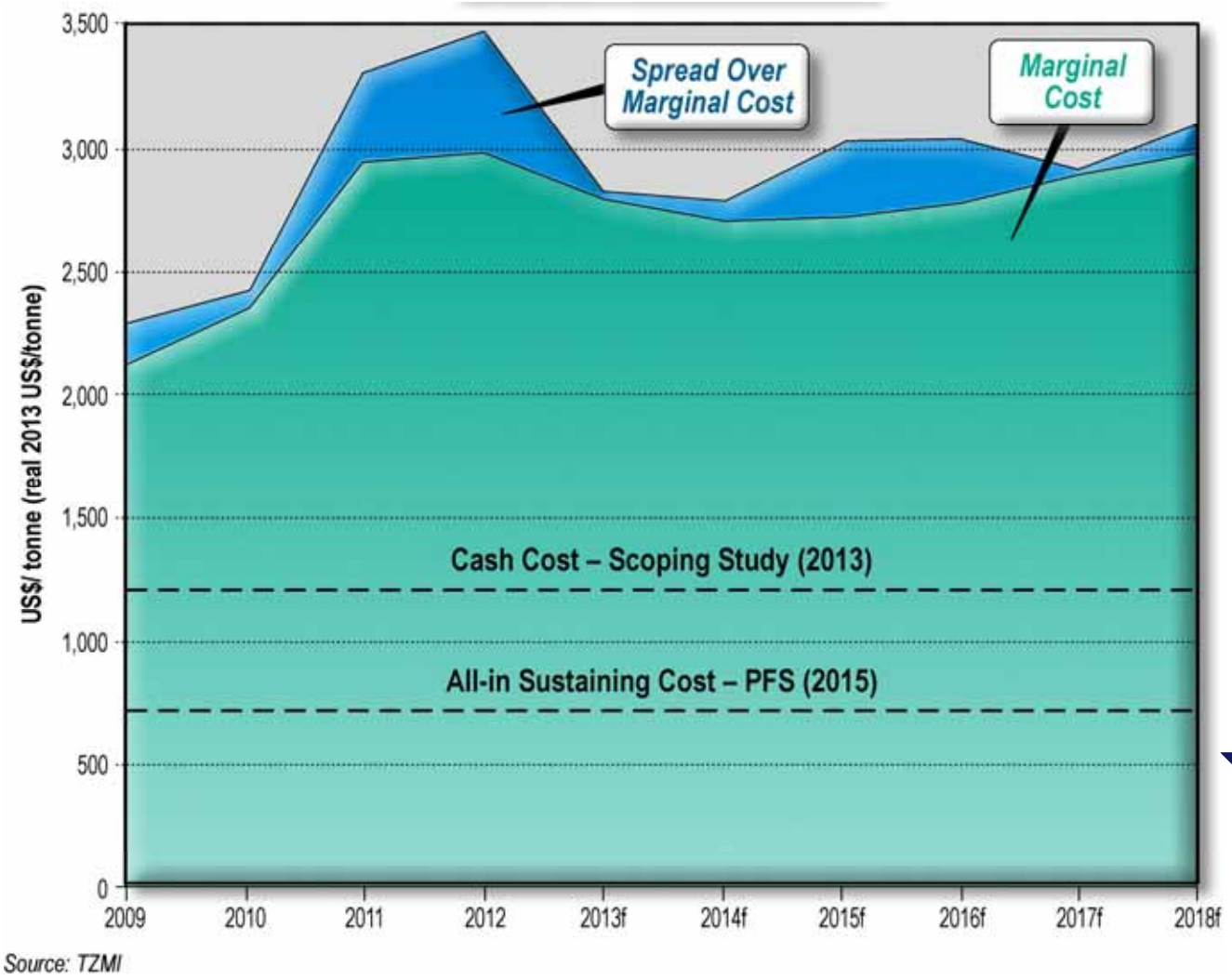
Scoping Study Results
(± 30% accuracy)

- Operating Costs US$4.45/lb Co (US$10k/t)
- Spot price US$25/lb Co (US$55k/t)
- Capex US$4.5M
- Pilot Plant under construction, testwork October 2017
- Can be constructed and commissioned in 42 weeks

Barrambie Titanium Project

100% Neometals

Problem: Poor Industry Profitability
Solution: Patented Neomet Process



Source: TZMI

- Increasing Confidence
- Lowering Costs

Neometals

Li + Ti = Nm

Globally Significant Ti Resource

1,000 RC/Diamond holes to 60 vertical depth, Open all directions

1

+150Mt @34% TiO_2

Lac Tio

RioTinto

2

47Mt @ 22% TiO_2

Barrambie*

Neometals

3

18%

Tellnes

KRONOS

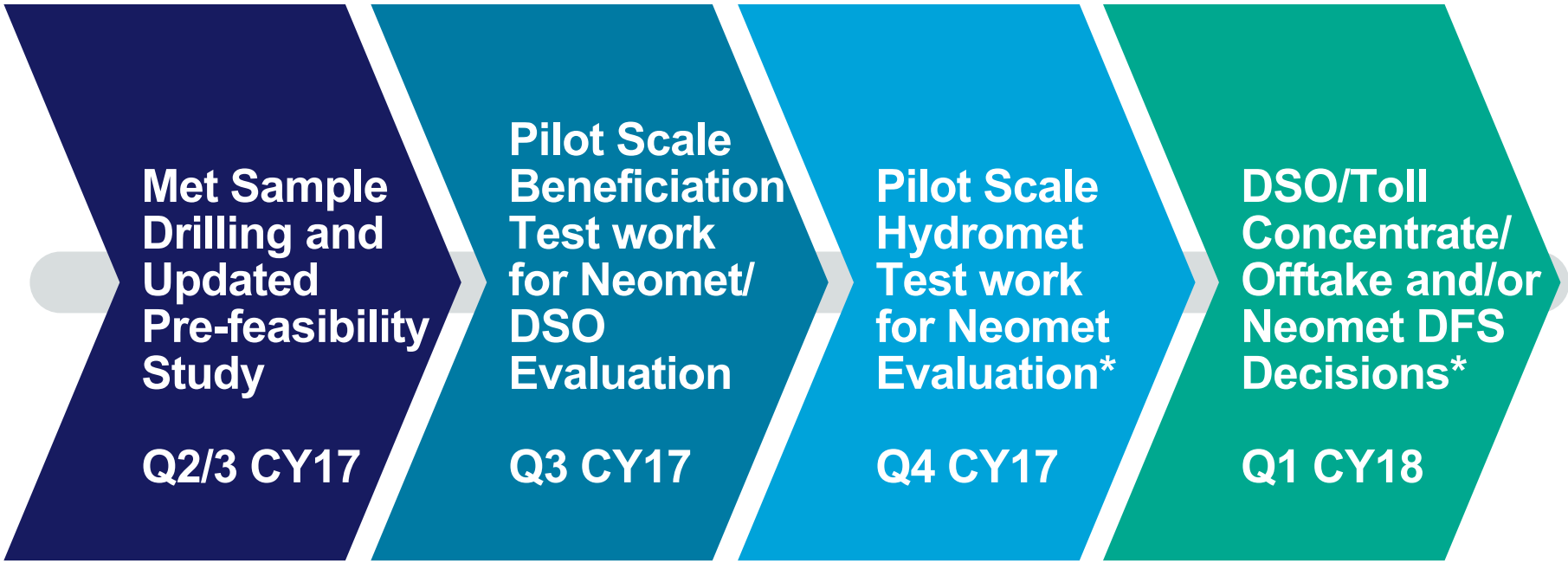
* Mineral Resource Estimate (JORC2012) on page 29

Neometals

Li + Ti = Nm

Sources: Company Reports

Commercialisation Plan



(*) Subject to Board Approval

Corporate

Snapshot

Cash at Bank
- A$46.5M *
  30 June 2017

Receivables
- A$8.5M

Investments
- A$8M

Capital Management
- A$11.5M dividend in FY17
- 5% Share buyback in progress

Market Cap
- A$150M @ 27c

* Includes $4M of restricted access term deposits

Executives and Consultants

Chris Reed

CEO

Chris started in the mining industry in 1990 and co-founded Reed Resources in 2001. Chris holds a Bachelor of Commerce from the University of Notre Dame and a Graduate Certificate in Mineral Economics from WA School of Mines. He is a Member of the AusIMM and immediate past Vice-President of the Association of Mining & Exploration Companies.

Mike Tamlin

COO

Mike has over 35 years experience, including over 20 years in the lithium industry and was responsible for developing the spodumene trade between Australia and China. Former positions include GM China Galaxy Resources, VP Commercial Enirgi Group, GM Marketing Windimurra Vanadium and GM Marketing Sons of Gwalia. He has a degree in Metallurgy and is also currently a director of Frontier Lithium.

Jason Carone

CFO & Company Secretary

Jason holds a Bachelor of Commerce in Accounting and Business Law from Curtin University and is a member of the Institute of Chartered Accountants, and Chartered Secretaries He has over 20 years' experience in accounting, company administration in Australia and South East Asia across a broad range of industries. Jason has been with Neometals 10 years.

Yatendra Sharma

Project Manager

Yatendra holds a PhD in chemical technology with over 42 years of experience at top management including general management position at Galaxy Resources Limited (2009-2012) etc where he successfully managed construction of then the world's largest lithium carbonate plant. Yatendra is a member of the Australasian Institute of Mining and Metallurgy (MAusIMM) and Royal Australian Chemical Institute (CChem MRACI).

Mike Spratt

Project Manager

Michael is a Metallurgist with over 50 years of experience in mining, mineral processing, engineering and construction both in Australia and overseas. Michael has held senior general management positions such as Managing Director of Thailand Smelting and Refining Company and Simcoa, GM Operations at Robe River Iron Ore, Operations Director of Minproc and Kaiser Engineers.

Investment Proposition

Lithium : Cash, cashflow & growth options

01

~A$46.1M Cash plus ~A$16.5M in receivables and investments

+

02

Cashflows from 13.8% Mt Marion

+

03

Downstream process to LiOH.
Licence ELi to brine rock producers.
Li-Ion Battery Recycling Project

Neometals

Li + Ti = Nm

Technology : developing a diversified portfolio

☑

01
Secured Strong Partners for Neomet Process

+

02
Successful completion of Pilot Plant for
- Li Battery Recycling

+

03
Secure partners to commercialise
- Brine IP & ELi
- Li Battery Recycling

Neometals

Li + Ti = Nm

Titanium : the big one

☑

01

Completed PFS

+

02

Successful completion of Pilot Plant

+

03

Commence DFS

Obtain Strong Partners to Commercialise

Neometals

Li + Ti = Nm

Thank you

www.neometals.com.au

Neometals

SUPPORTING INFORMATION

Corporate

Experienced Board

Steven Cole
Chairman

Steven has 35 years of professional, corporate and business experience through senior legal consultancy, as well as a range of executive management and non executive appointments. His extensive boardroom and board sub-committee experience includes ASX listed, statutory, proprietary and NFP organisations covering the industrial, financial, educational, professional services, health and resources sectors.

Chris Reed
Managing Director

Chris started in the mining industry in 1990 and co-founded Reed Resources in 2001. Chris holds a Bachelor of Commerce from the University of Notre Dame and a Graduate Certificate in Mineral Economics from WA School of Mines. He is a Member of the AusIMM and immediate past Vice-President of the Association of Mining & Exploration Companies.

David Reed
Non-Executive Director

David was a director and Chairman of CIBC Australia Limited. David has been a prospector, former secretary of the Amalgamated Prospectors and Leaseholders Association and private mine owner. In 1984 David founded Mt. Martin Gold Mines NL, which with partner Newmont Australia developed the million ounce New Celebration Gold Mine. In recognition of his service to the community he was awarded the Order of Australia Medal in 2002.

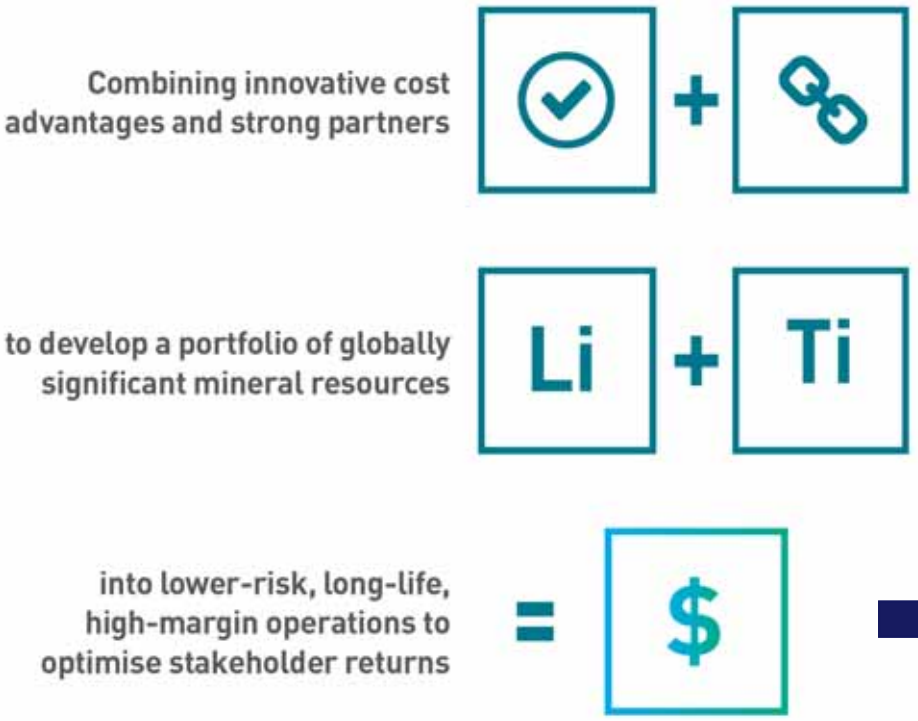
Natalia Streltsova
Non-Executive Director

Natalia Streltsova is a PhD qualified chemical engineer with over 25 years experience in the minerals industry, including over 10 years in senior technical and corporate roles with mining majors - WMC, BHP and Vale. Dr Streltsova has considerable international experience covering project development and acquisitions in South America, Africa and the Former Soviet Union. She is currently a Non-Executive Director of Western Areas Limited and Parkway Minerals NL.

Doug Ritchie
Non-Executive Director

Doug Ritchie is a senior resources industry executive with over 35 years experience, including over 28 years working with Rio Tinto. Mr Ritchie has considerable international corporate experience, including in China. He has been a director of various ASX and HKSE listed companies as well as research and commercialisation organisations

Long-term Strategy



2 cent unfranked div – April ‘16
2 cent unfranked div – Aug ‘16
5% on market buyback

Tactical Plan – FY18

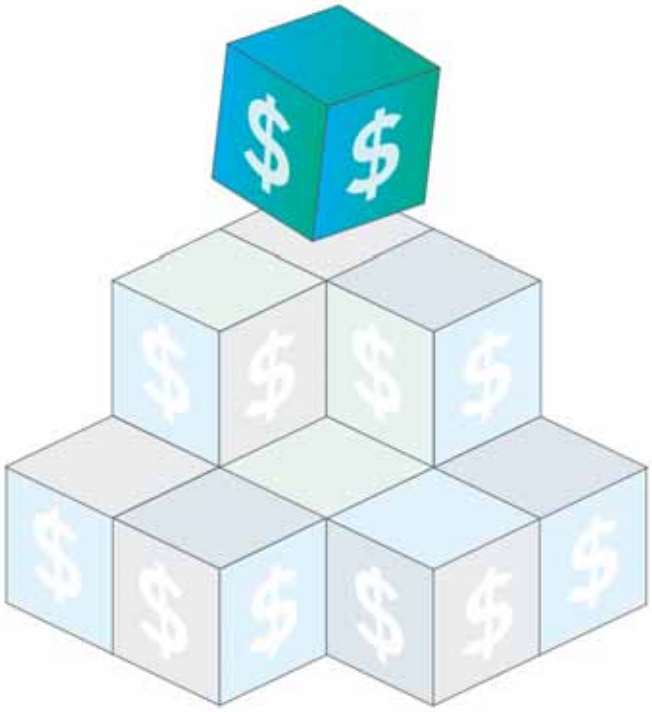
Grow market cap from maximising returns from existing operations, increasing margins via higher value (downstream) products and developing growth options.

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



- Negotiate new MSA to improve offtake quality and revenues
- Advance local LiOH project with vendor testwork, offtake and partner selection processes.
- Licence Dexter and/or ELi to brine producer for royalties
- Fast-track evaluation of recycling process pending Mini-Max Test work.
- Fast-track evaluation of Barrambie pending Mini-Max Test work and partner selection outcomes
- Build royalty portfolio from Neomet Process with Sedgman and Andritz

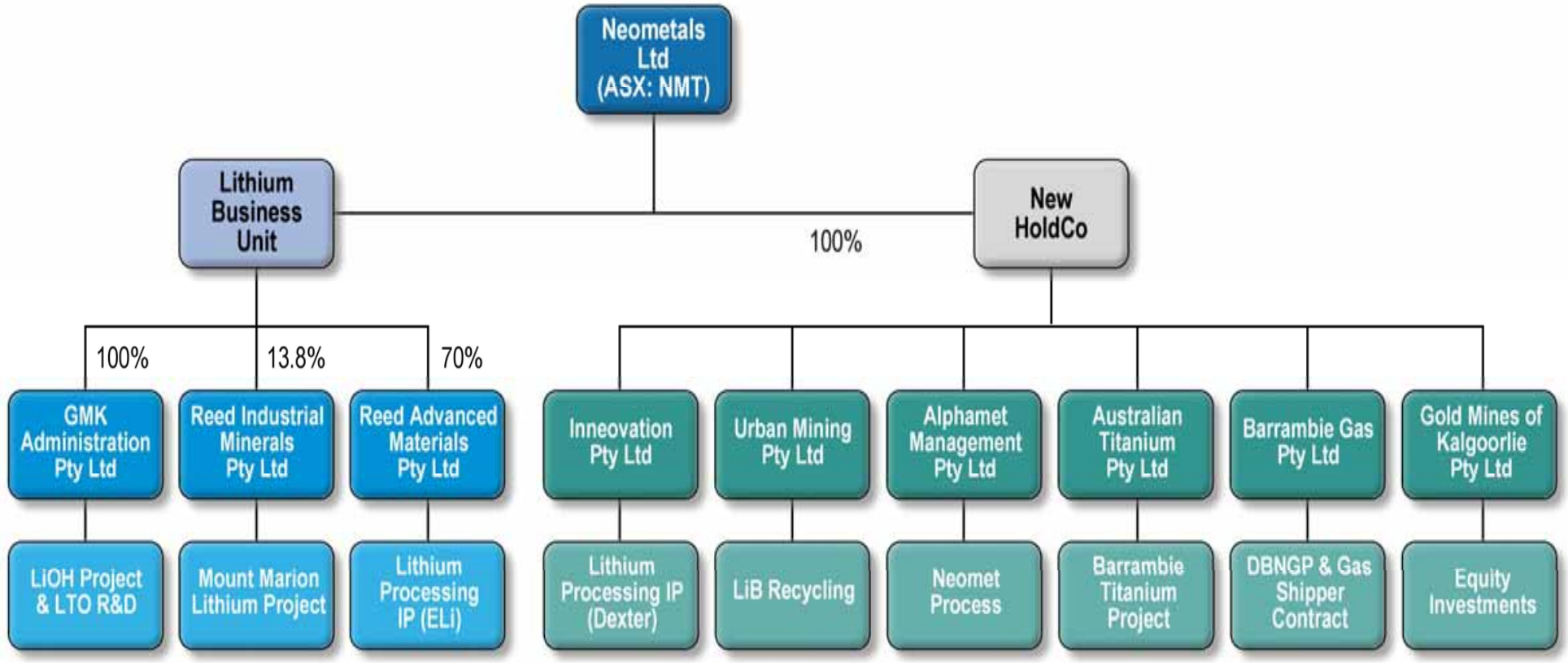
Significant Financial Resources

ASX CODE: NMT	OTC:RDRUY	
Last close (7-8-2017)	A$	0.29
Shares on issue	M	544
Market capitalisation	A$M	157
Net Cash (at 30-6-2017)	A$M	**46.1**
Receivables/Investments	A$M	**16.5**

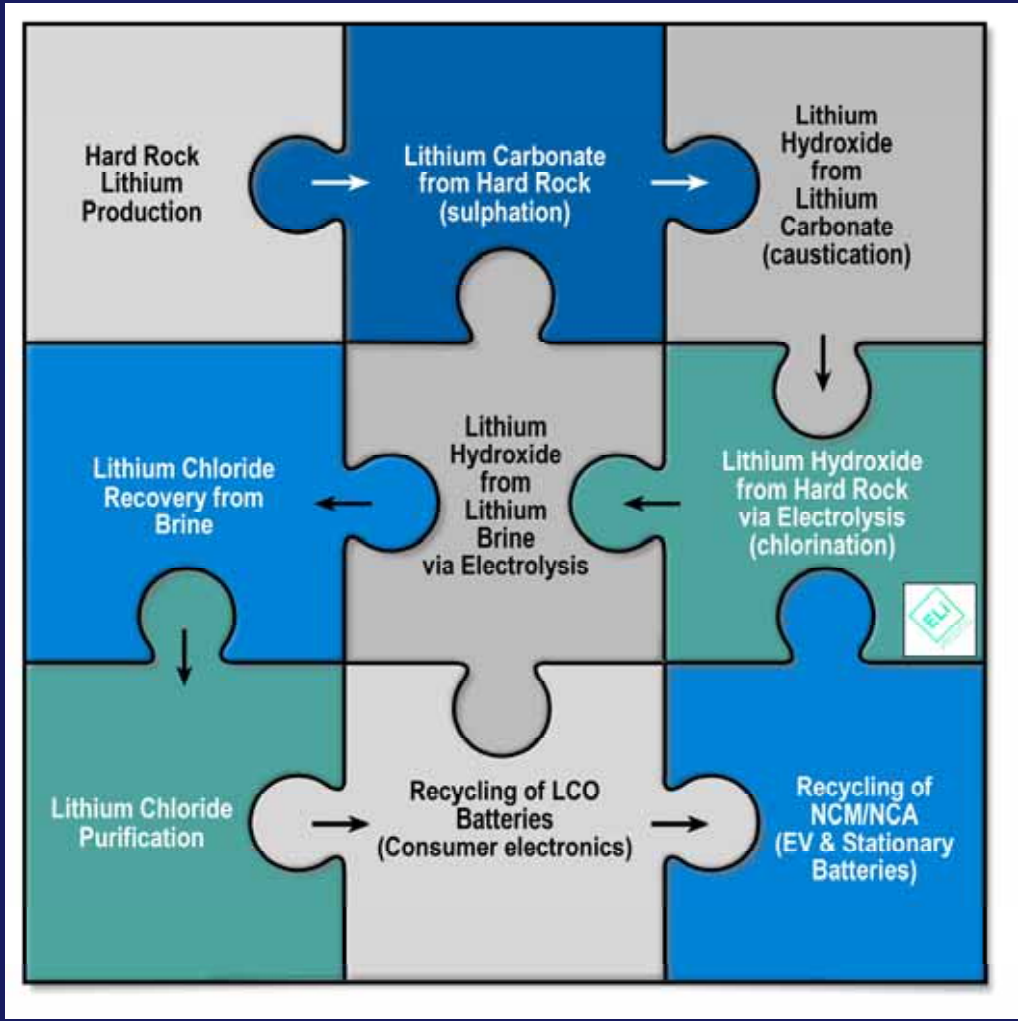
MAJOR SHAREHOLDERS	
David Reed	10.9%
Kilkenny Limited	4.3%
Top 20 (7-8-2017)	37.1%

18 MONTH SHARE PRICE

Operating Structure



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

Neometals 13.8%
through Reed Industrial Minerals Pty Ltd

Neometals

Li + Ti = Nm

Strong Operating Partner

- ✓ Australia's largest contract minerals processor
- ✓ Operate mine-to-port on BOO basis
- ✓ No upfront capital cost to NMT
- ✓ Minimum production levels (~50ktpa LCE)
- ✓ Fixed rate mining and processing costs

Mine Production/Guidance*

Mt Marion Project		2H FY17 (Actual)	1H FY18 (Forecast)
6% Tonnes exported	000 WMT	50	100
4% Tonnes exported	000 WMT	66	100
Total Tonnes exported (100%)	000 WMT	116	200
Revenue	A$/WMT	782.9	823.0
C1 costs	A$/WMT	570.9	368.5
Total expenses	A$/WMT	658.0	460.0
EBITDA	A$/WMT	124.9	363.0

Notes:

- Costs include arms length mining infrastructure service agreements with MRL
- RIM went into commercial production on 1 March 2017. The production costs net of sales receipts of 37Kt of spodumene produced pre 1 March 2017 were capitalised in line with accounting standards. Accordingly, unit revenues and costs set out above for 2H FY17 are derived on 79Kt of spodumene produced post commercial production

* Information taken from ASX:MIN announcement 16/8/2017.

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 – US$841/t CIF for SepQ
- ✓ Letter of Credit (100% payment on invoice)
- ✓ *Neometals Option to take min 12.37% Offtake of production from 2020 onwards.*

Mineral Resource Estimate

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

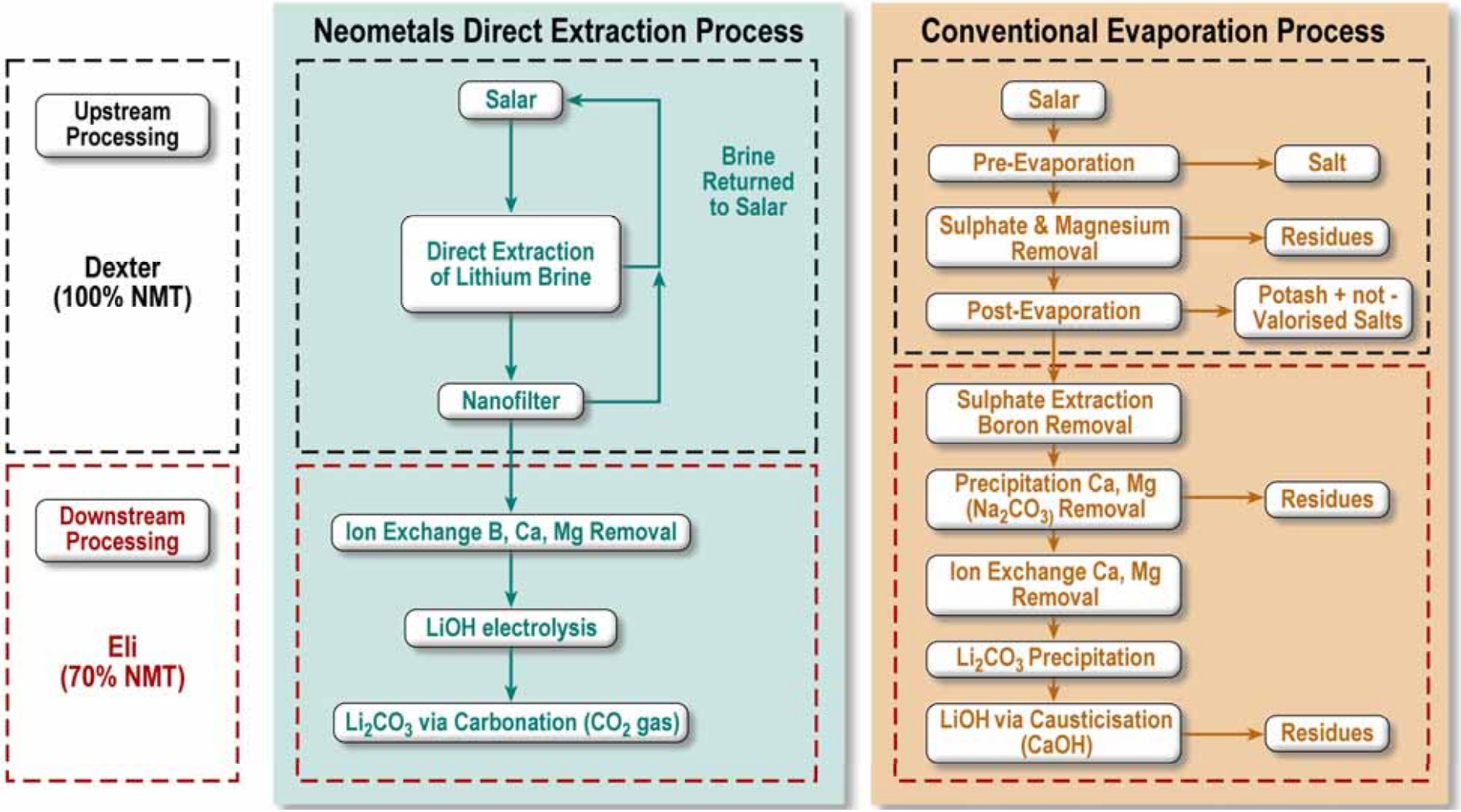
Classification	Deposit	Tonnes (Mt)	Li_2O %	Fe %
Indicated	Area 1,2,2W	19.3	1.41	1.08
	Area 4	2.0	1.11	0.99
	Area 6	7.7	1.29	1.04
Indicated Total		28.9	1.35	1.06
Inferred	Area 1,2,2W	43.5	1.39	1.09
	Area 4	0.8	1.07	1.09
	Area 5	1.0	1.32	1.71
	Area 6	3.5	1.33	1.07
Inferred Total		48.9	1.38	1.10
	Grand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

Downstream processing
Direct Extraction from Brine

100% Neometals

Selective LiCl Extraction from Brine

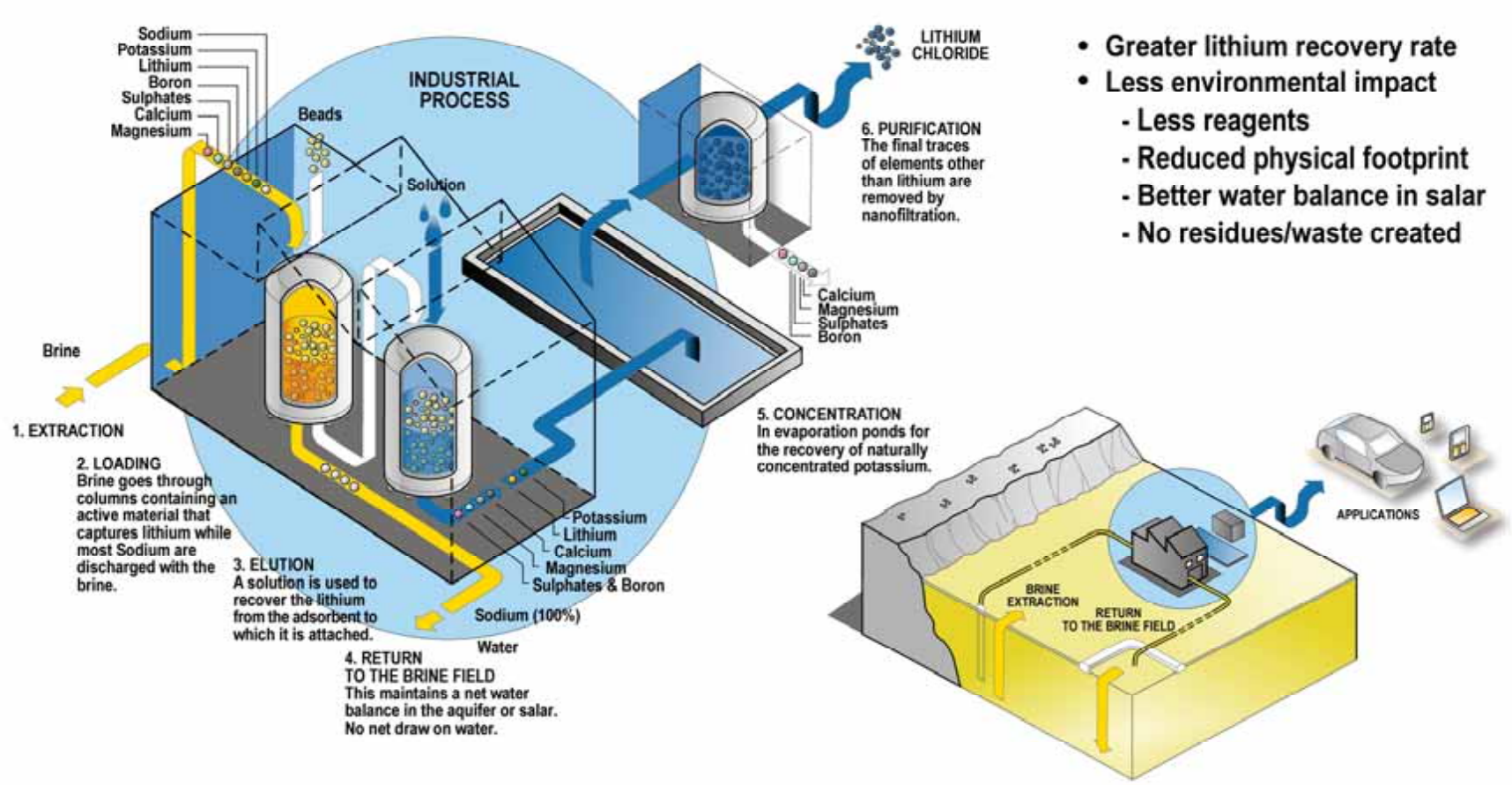


Neometals

Li + Ti = Nm

Selective LiCl Extraction from Brine

Direct Extraction Process is simple, efficient, low-cost and more environmentally friendly than conventional evaporation process



- Greater lithium recovery rate
- Less environmental impact
  - Less reagents
  - Reduced physical footprint
  - Better water balance in salar
  - No residues/waste created

Downstream processing

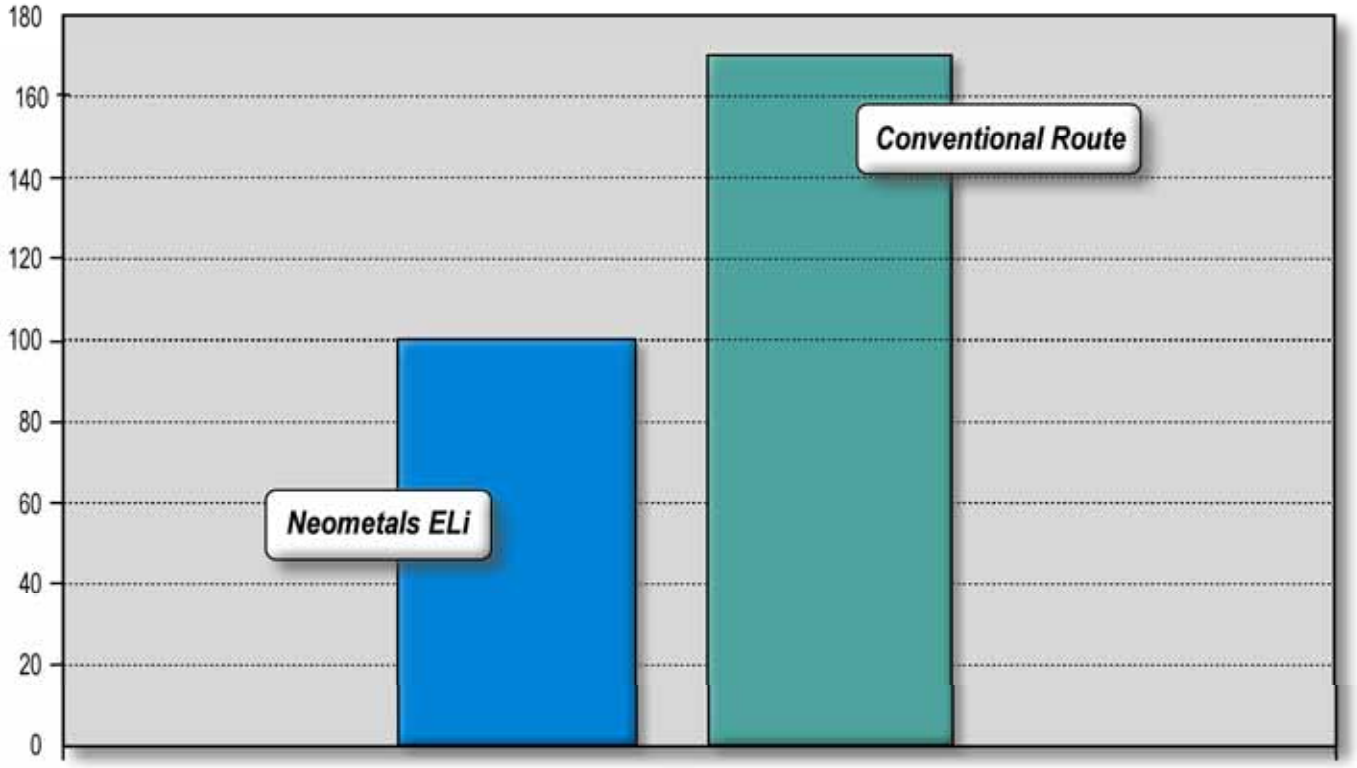
ELi Process™

Neometals 70%

Mineral Resources Ltd 30%

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.

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

Co

Downstream processing

Lithium Battery Recycling

Neometals 50% of IP (3 US Prov. Pats)

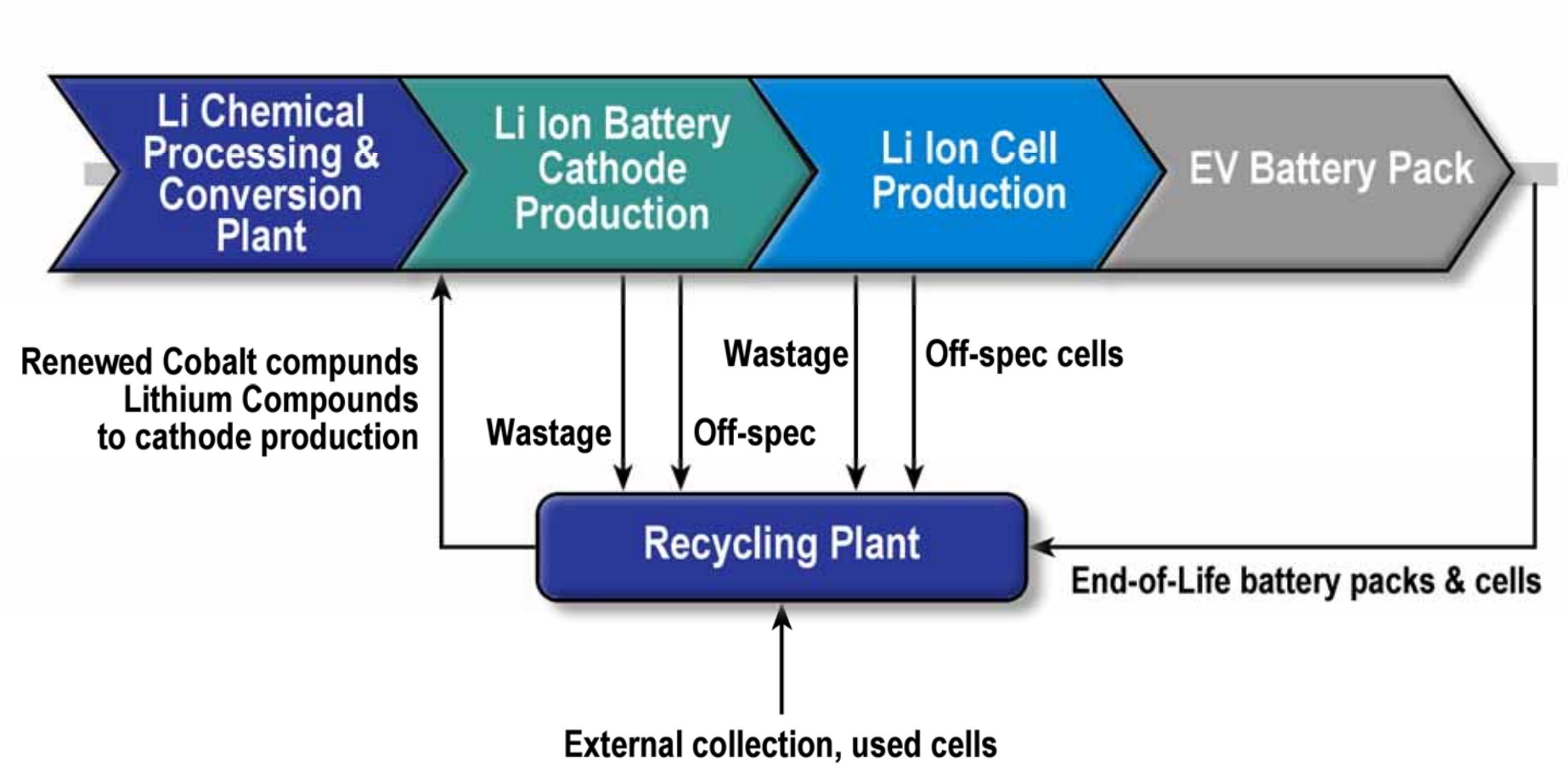
Exclusive licence to commercialise

Neometals

Li + Ti = Nm

Closing the loop:Recycle and re-use

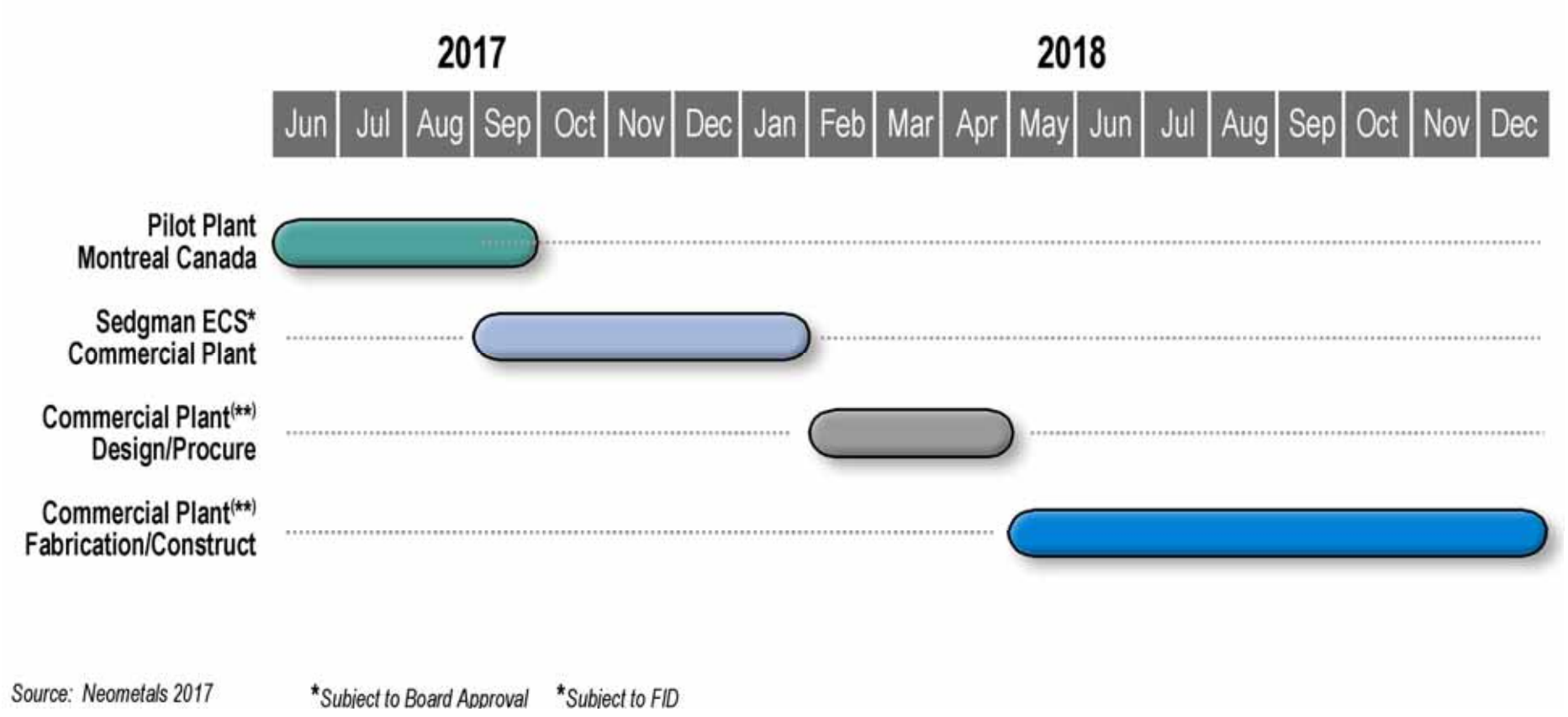
Co



Pilot Plant in Construction

Co

Commercialisation Plan



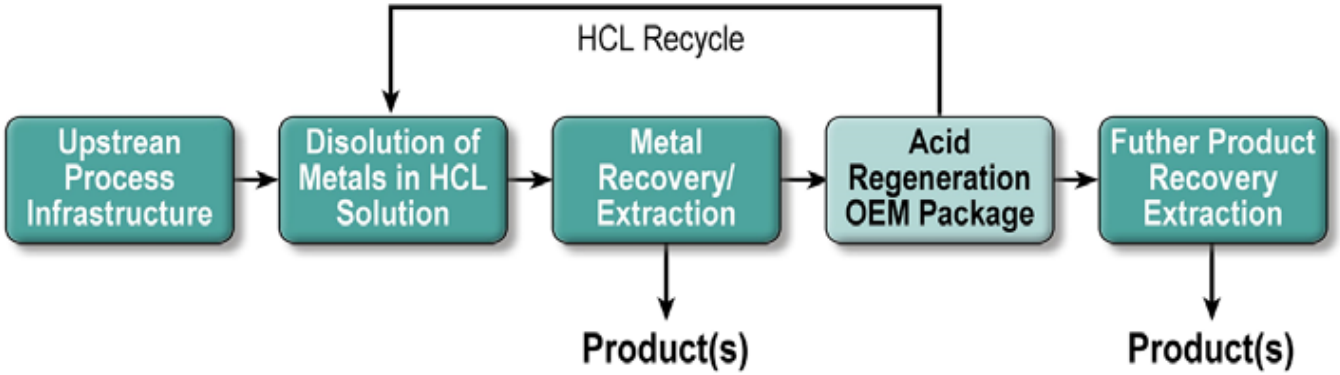
Running Partner/Site Selection Processes in parallel with test work and engineering programs

Technology Licensing

Neomet Process

Neometals - 25% of sub-licencing royalties

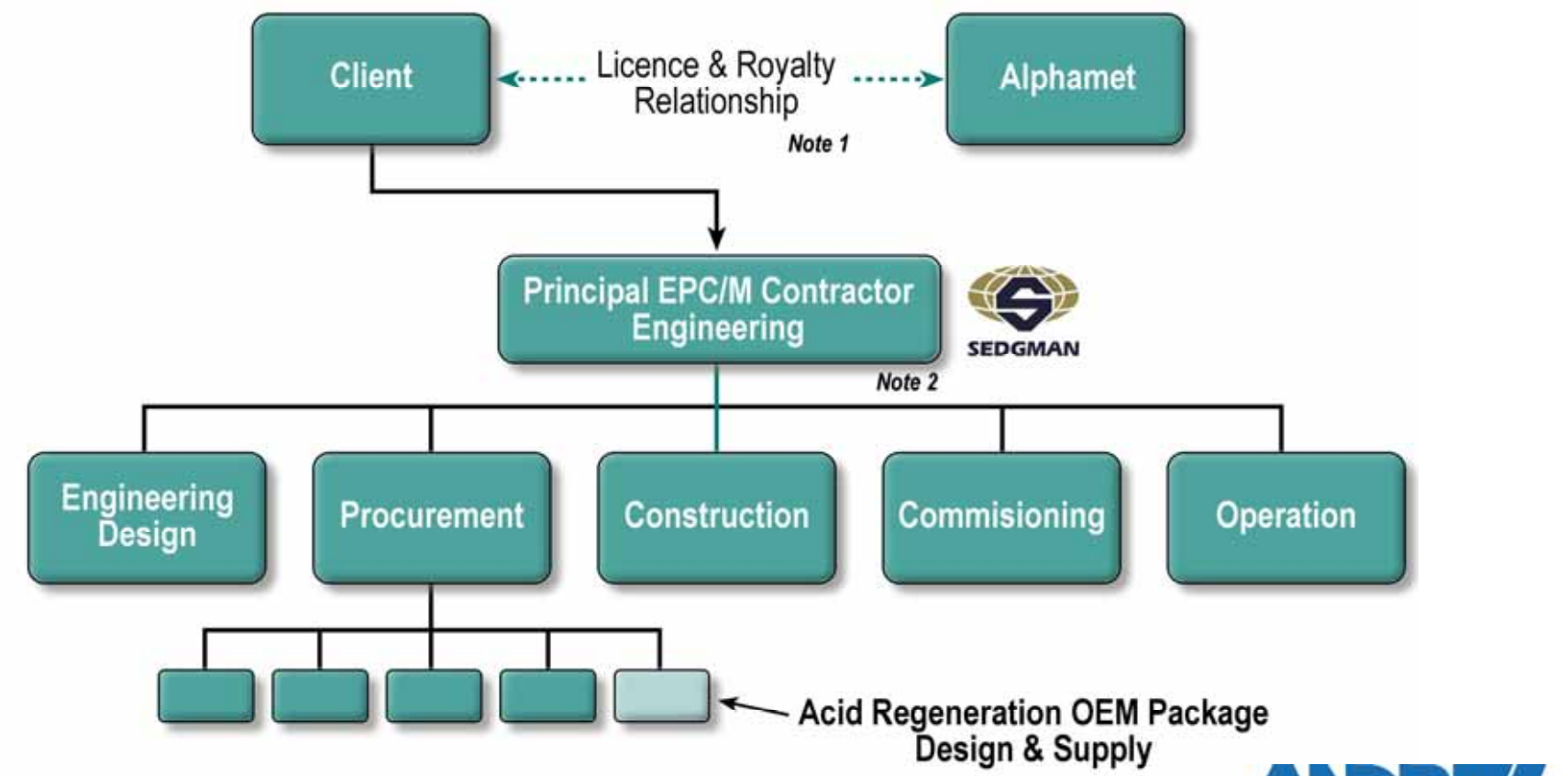
Patented Neomet Process



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

Neometals Laboratory in Montreal

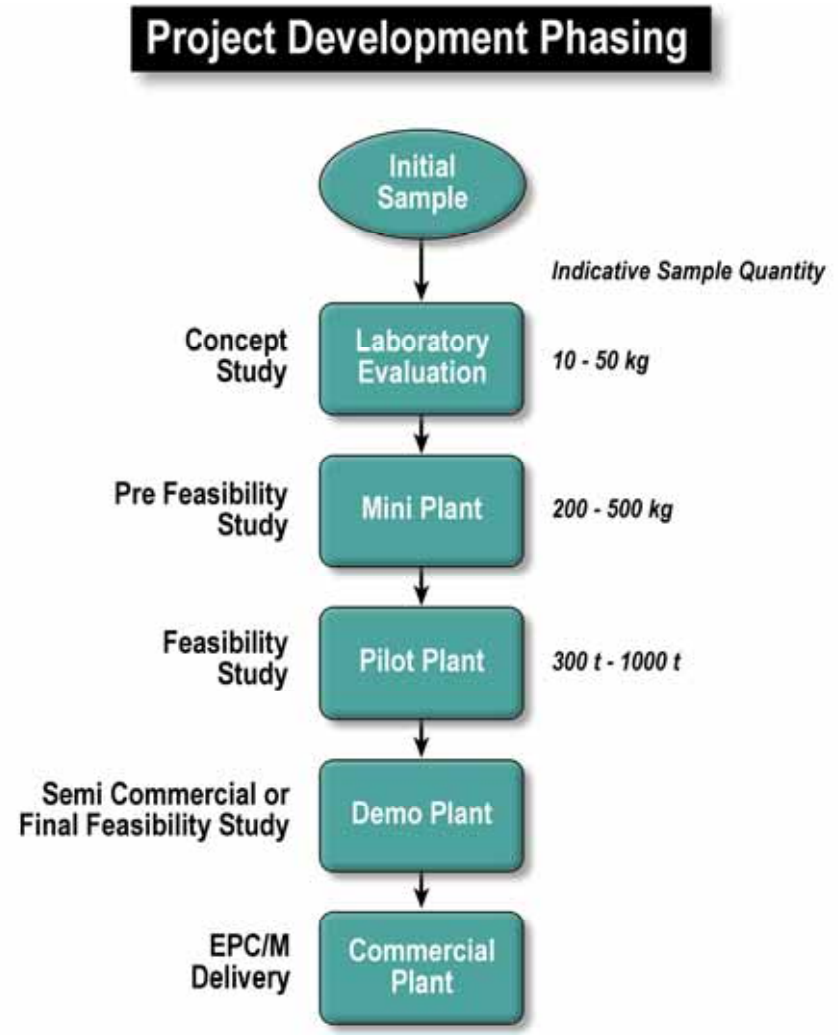
Commercialising technology with leading industry partners



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



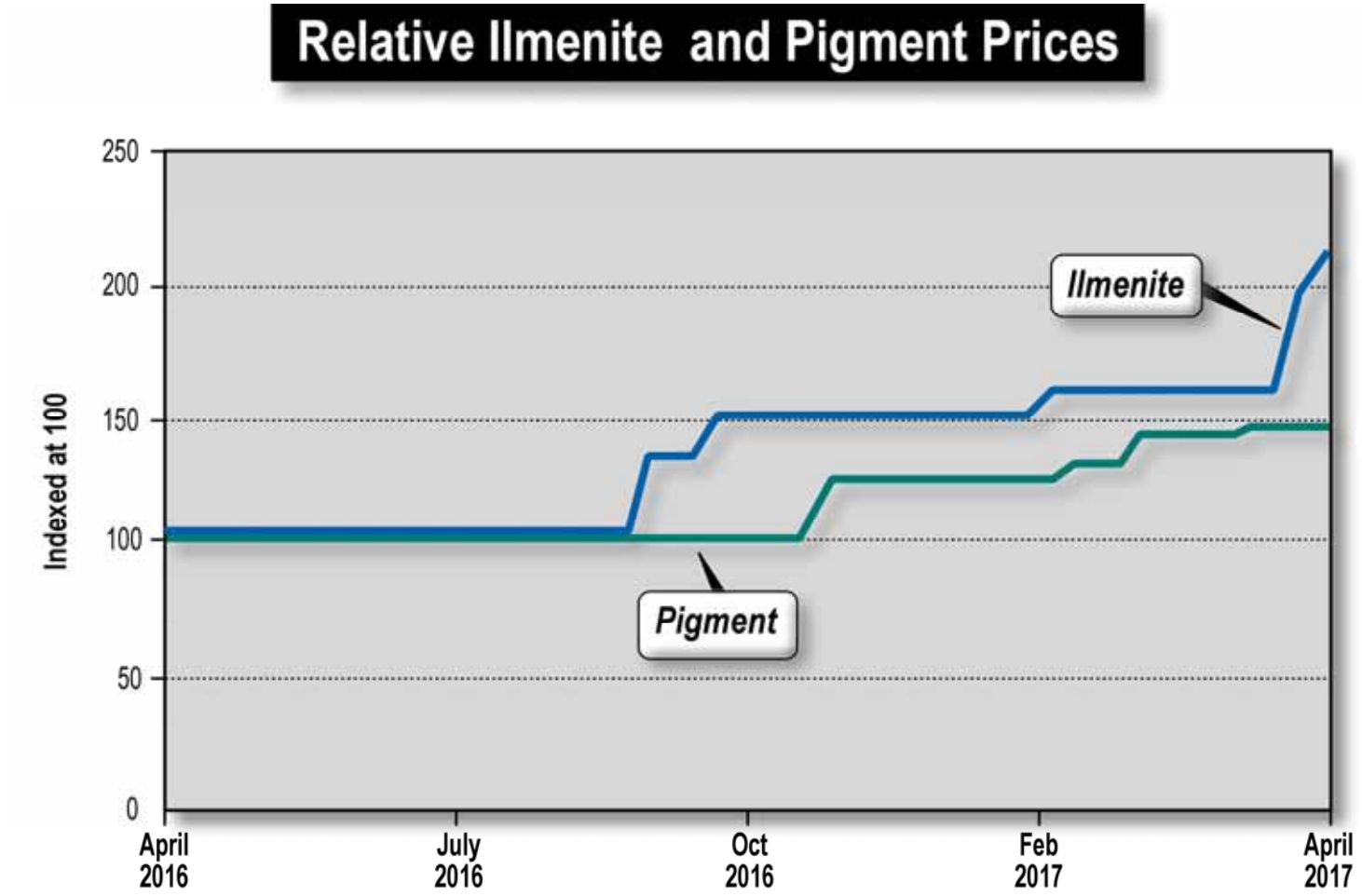
Laboratory scale set up (above) Pilot scale up (below)

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

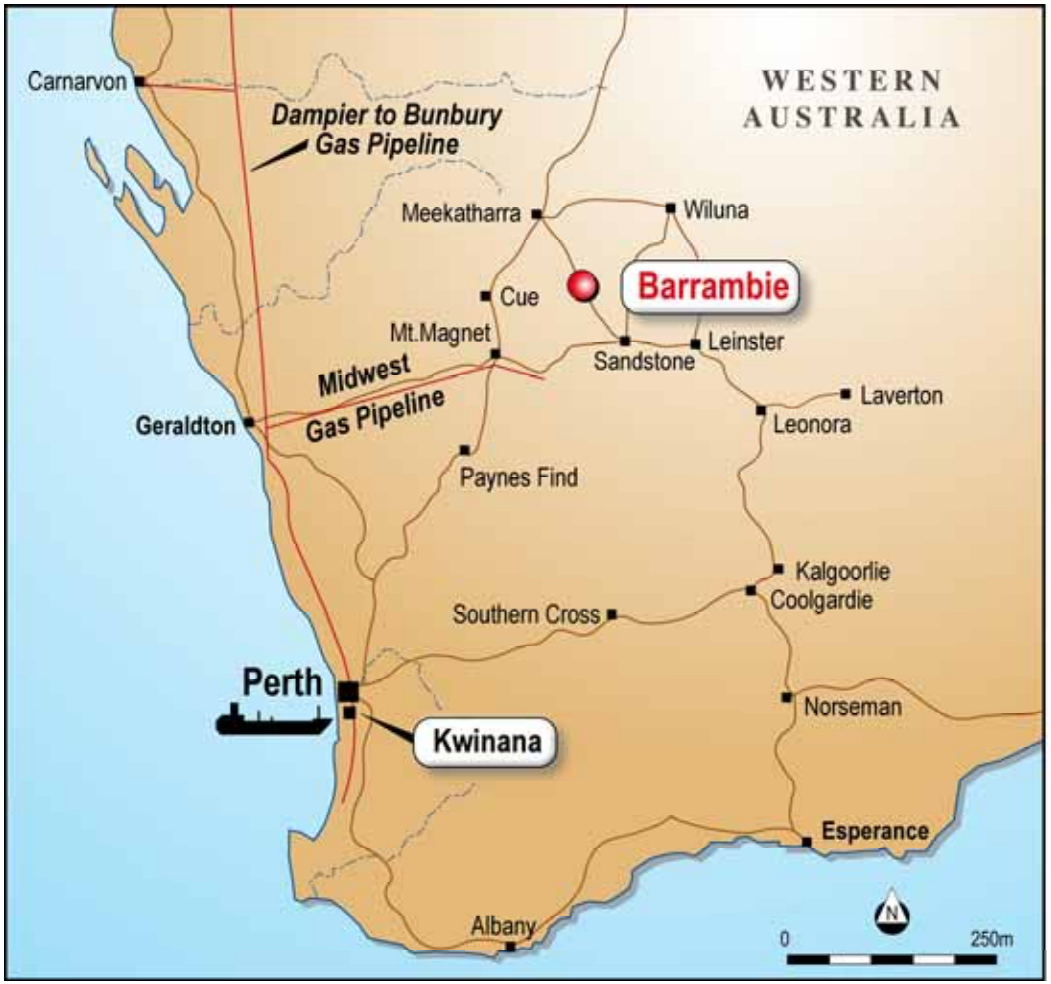
Globally declining grades and quality

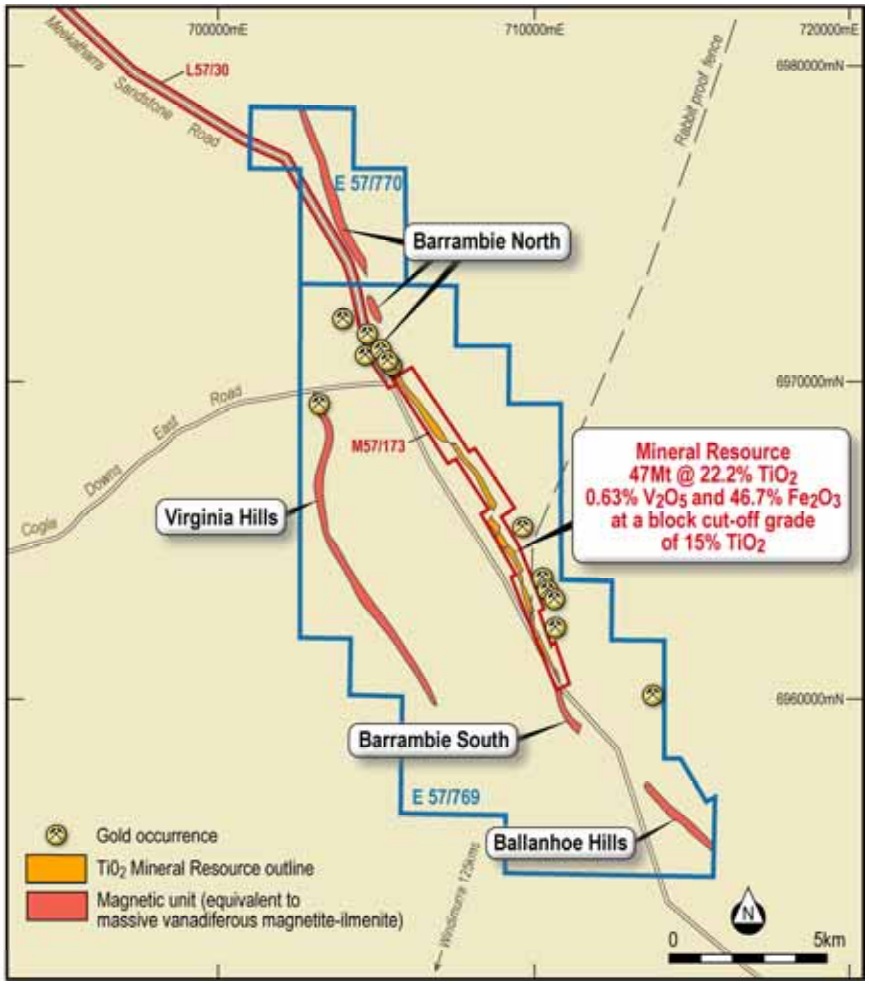
Cost push price inflation

Neometals

Li + Ti = Nm

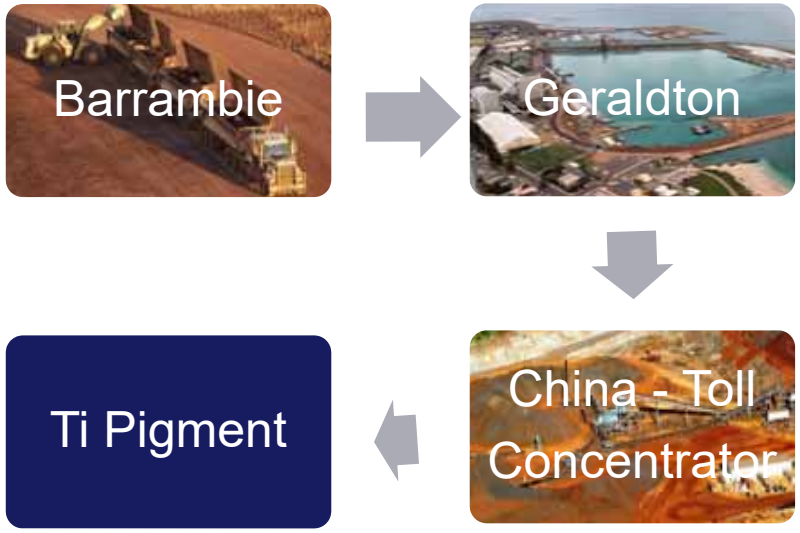
Globally Significant Ti Resource



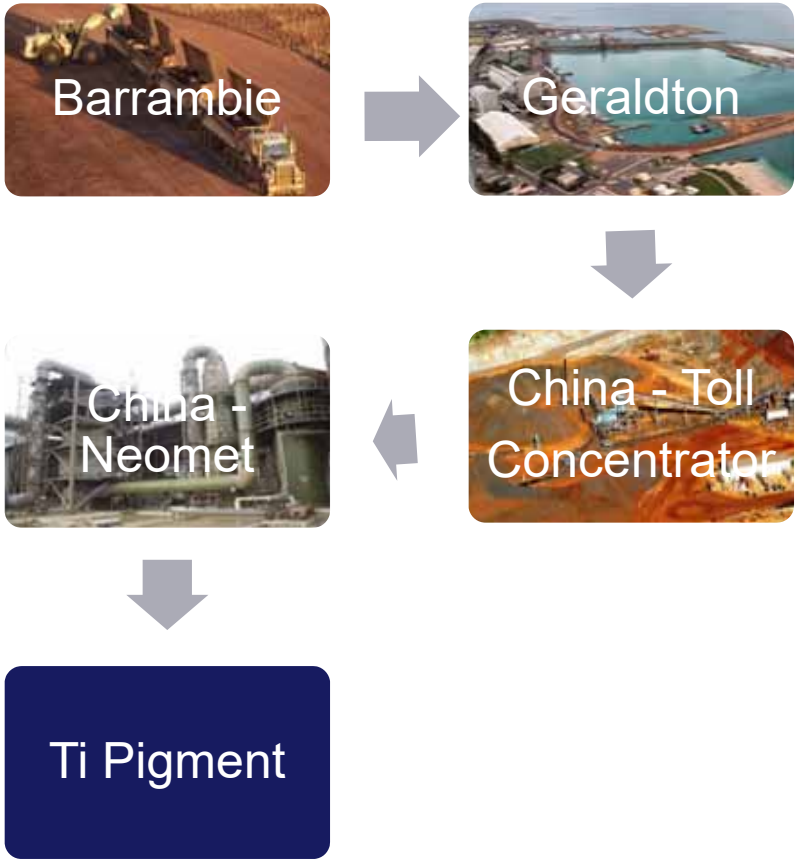


Dual Track Evaluations

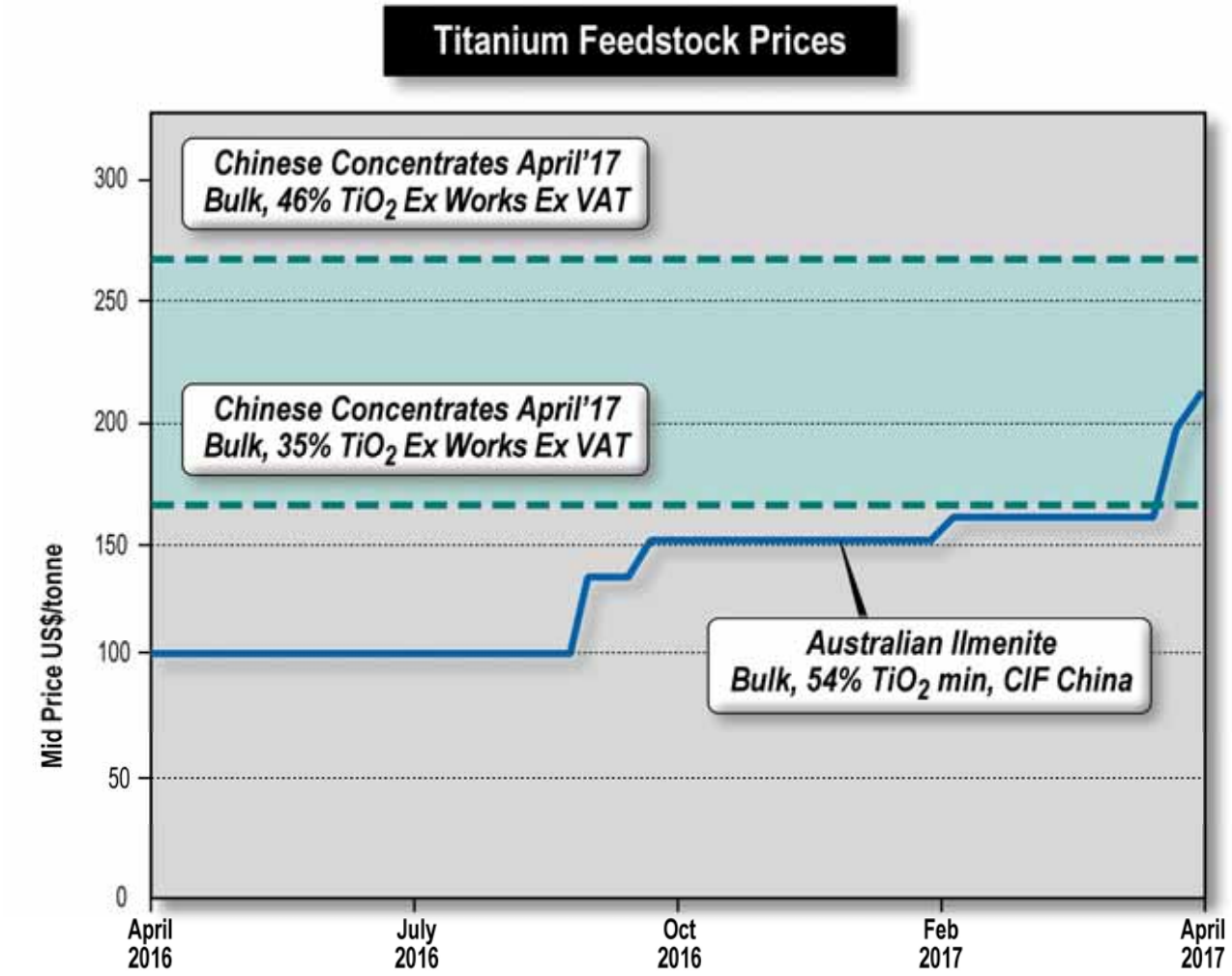
Direct Ship



Concentrate

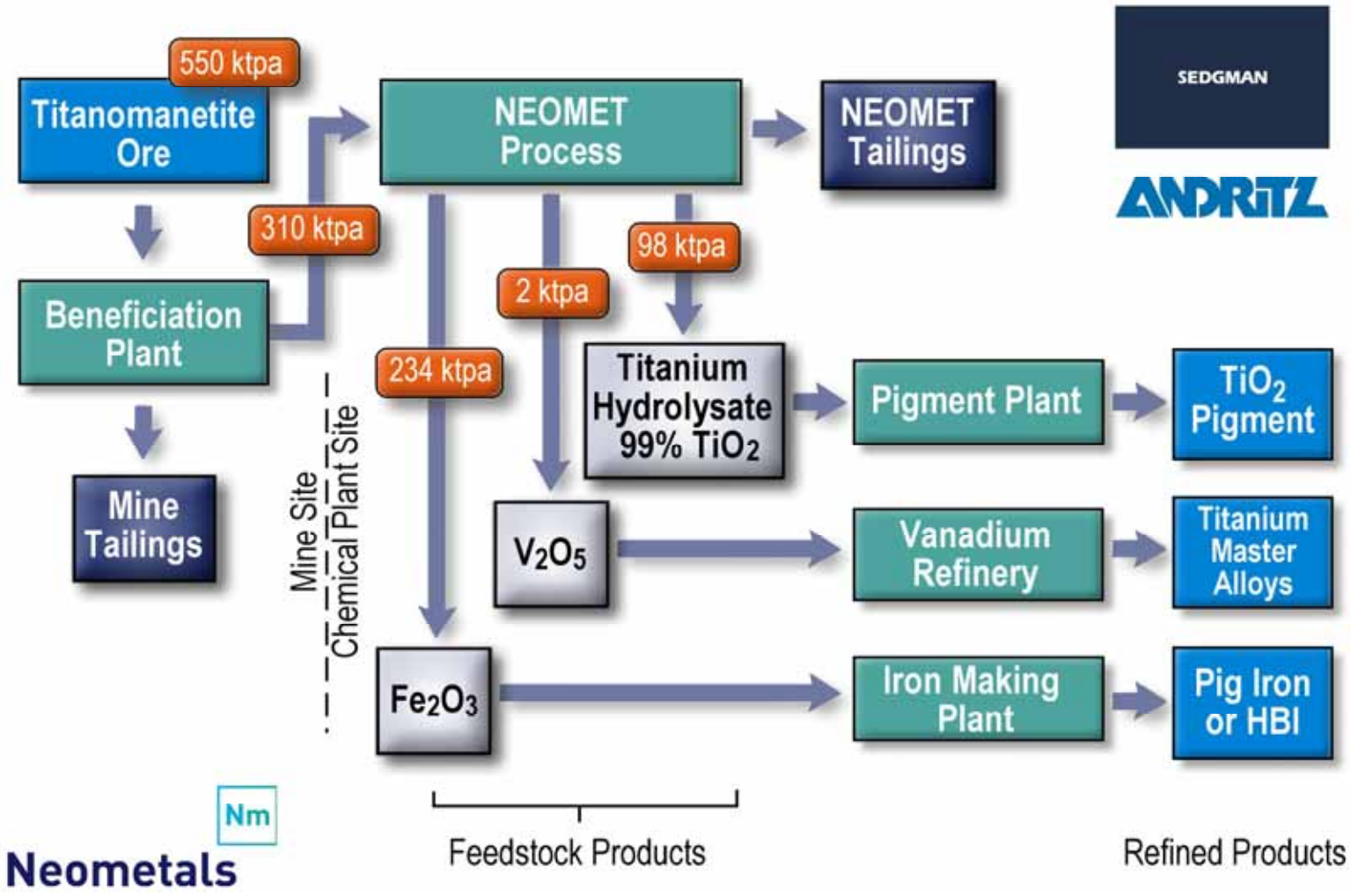


Evaluating potential for Direct Shipping Ore and Toll-concentration in China



Source: Metal Bulletin, Woqen and Neometals Management

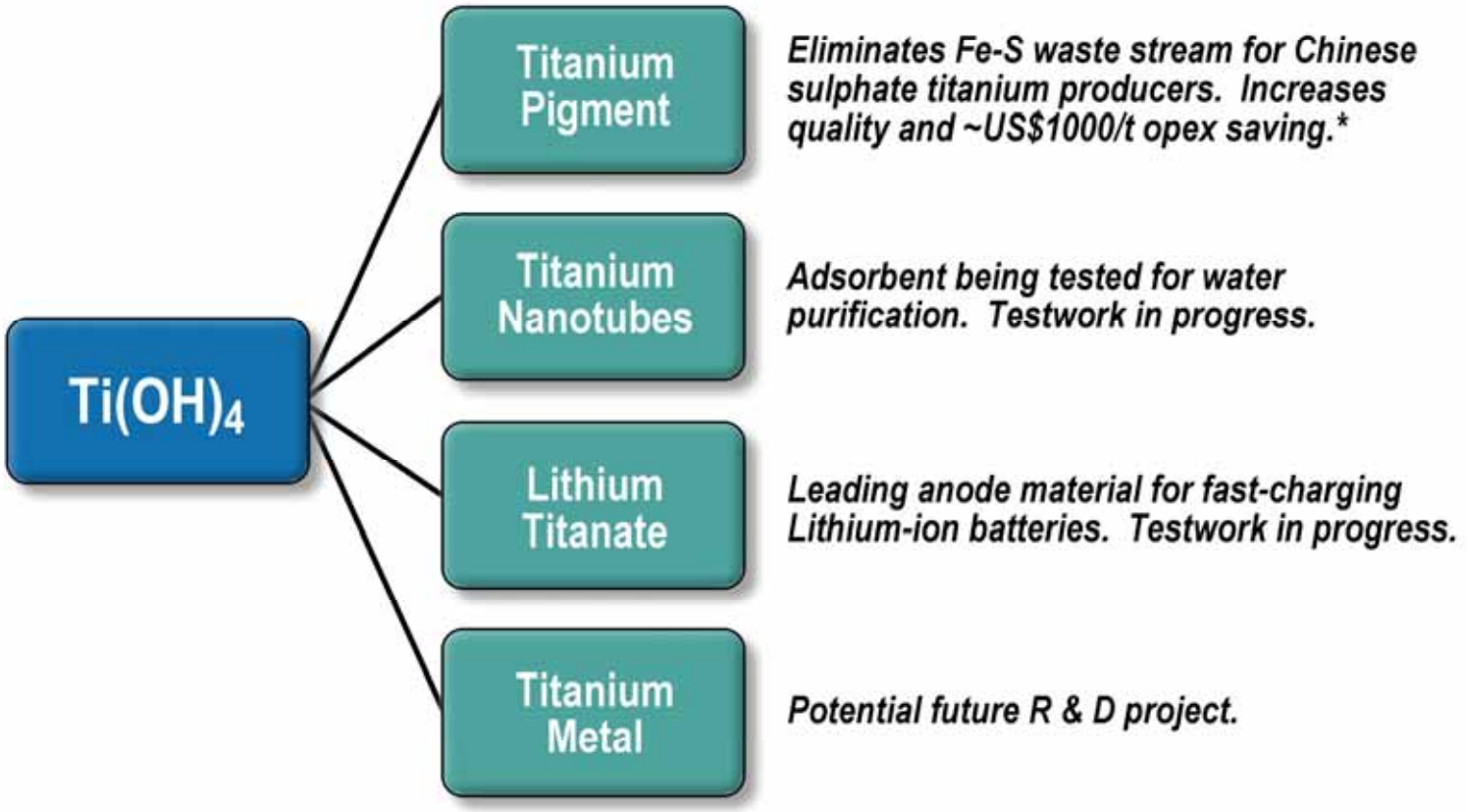
Neomet Process:
3 Product Efficiency



Why Titanium Hydrolysate?

Ti

Premium Feedstock for broad application



* Source: Neometals/Sedgman PFS August 2015

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