



## Australian Energy & Battery Minerals Conference

14 - 15 March 2018



# Important Information

## Forward Looking Statement

This presentation may contain certain statements and projections provided by or on behalf of Aus Tin Mining Limited (Aus Tin Mining) with respect to the anticipated future undertakings. These forward-looking statements reflect various assumptions by or on behalf of Aus Tin Mining. Accordingly, these statements are subject to significant business, economic and competitive uncertainties and contingencies associated with exploration and/or mining which may be beyond the control of Aus Tin Mining which could cause actual results or trends to differ materially, including but not limited to price fluctuations, exploration results, reserve and resource estimation, environmental risks, physical risks, legislative and regulatory changes, political risks, project delay or advancement, ability to meet funding requirements, factors relating to property title, native title and aboriginal heritage issues, dependence on key personnel, share price volatility, approvals and cost estimates. Accordingly, there can be no assurance that such statements and projections will be realised. Aus Tin Mining makes no representations as to the accuracy or completeness of any such statement of projections or that any forecasts will be achieved.

Additionally, Aus Tin Mining makes no representation or warranty, express or implied, in relation to, and no responsibility or liability (whether for negligence, under statute or otherwise) is or will be accepted by Aus Tin Mining or by any of their respective officers, directors, shareholders, partners, employees, or advisers as to or in relation to the accuracy or completeness of the information, statements, opinions or matters (express or implied) arising out of, contained in or derived from this presentation or any omission from this presentation or of any other written or oral information or opinions provided now or in the future to any interested party or its advisers. In furnishing this presentation, Aus Tin Mining undertakes no obligation to provide any additional or updated information whether as a result of new information, future events or results or otherwise.

Nothing in this material should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities. It does not include all available information and should not be used in isolation as a basis to invest in Aus Tin Mining Limited.

## Material Assumption

The material assumptions which support the Taronga Ore Reserve Estimate, Production Targets and the forecast financial information derived from the Production Targets are disclosed in the body of the ASX announcement referred to in this Presentation, with the exception of commercially sensitive information.

## Competent Persons Statement

The information in this presentation that relates to Exploration Targets and Exploration Results is based on information compiled by Mr Nicholas Mather B.Sc (Hons) Geol., who is a Member of The Australian Institute of Mining and Metallurgy. Mr Mather is employed by Samuel Capital Pty Ltd, which provides certain consultancy services including the provision of Mr Mather as a Director of Aus Tin Mining. Mr Mather has more than five years experience which is relevant to the style of mineralisation and type of deposit being reported and to the activity, which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves' (the JORC Code). This public report is issued with the prior written consent of the Competent Person(s) as to the form and context in which it appears.

The information in this Announcement that relates to Mineral Resources is based on information extracted from the report entitled "Maiden JORC Resource Estimated for the Taronga Tin Project" created on 26th August 2013 and is available to view on [www.austinmining.com.au](http://www.austinmining.com.au) Aus Tin Mining confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

In the information in this Announcement that relates to Ore Reserves is based on information extracted from the report entitled "Pre-Feasibility Advances the Taronga Tin Project" created on 7th April 2014 and is available to view on [www.austinmining.com.au](http://www.austinmining.com.au) . Aus Tin Mining confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

# Aus Tin Mining Ltd (ASX:ANW)

Focused on delivery of high-value metals critical to energy revolution



Mt Cobalt - Exploration (Cobalt/Nickel)

Pembroke - Exploration (Nickel/Copper)

Taronga - Development

(Tin, Copper, Silver, Tungsten,  
Molybdenum, Lithium, Rubidium)

Granville - Operational (Tin)

# Corporate Overview

Creating shareholder value by targeting development & production



ASX TICKER



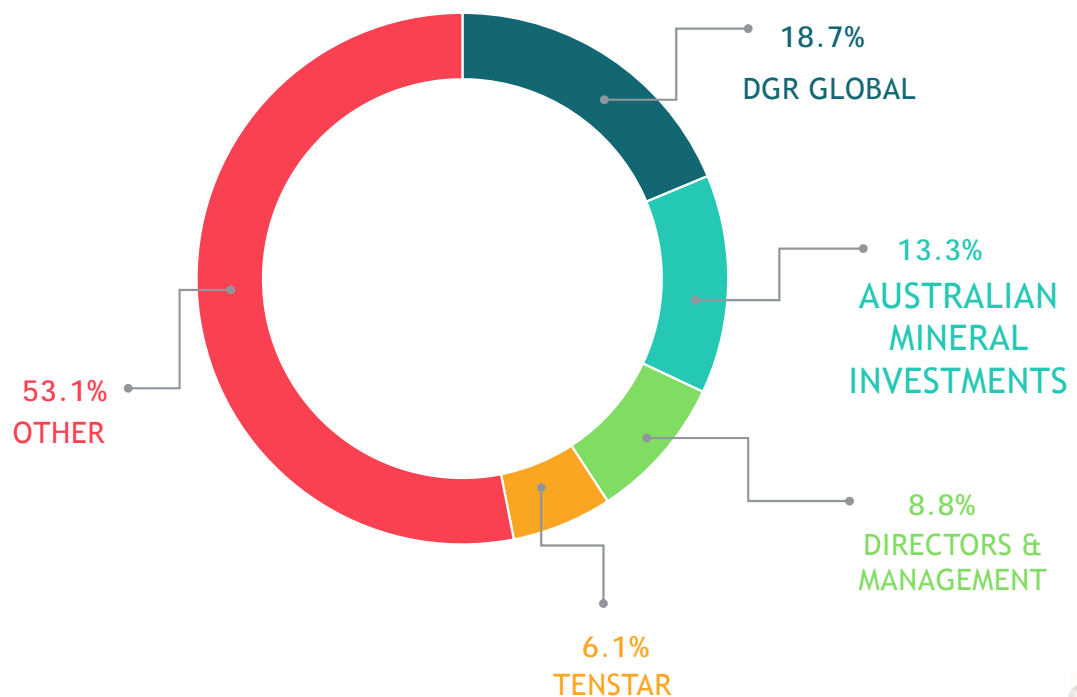
MARKET CAP



CASH

SHARE PRICE 2CPS  
12 MONTH RANGE  
0.6CPS - 3.7CPS

CAPITAL STRUCTURE  
1,963M ORD SHARES  
162M OPTIONS @ 1.9CPS



# Board of Directors

...



**BRIAN MOLLER**  
*Chairman*



**NICK MATHER**  
*Executive Director*



**JOHN BOVARD**  
*Non-Executive Director*



**RICHARD WILLSON**  
*Non-Executive Director*

# Management

...



**PETER WILLIAMS**  
*CEO*



**ROBERT KIDD**  
*GM Operations*

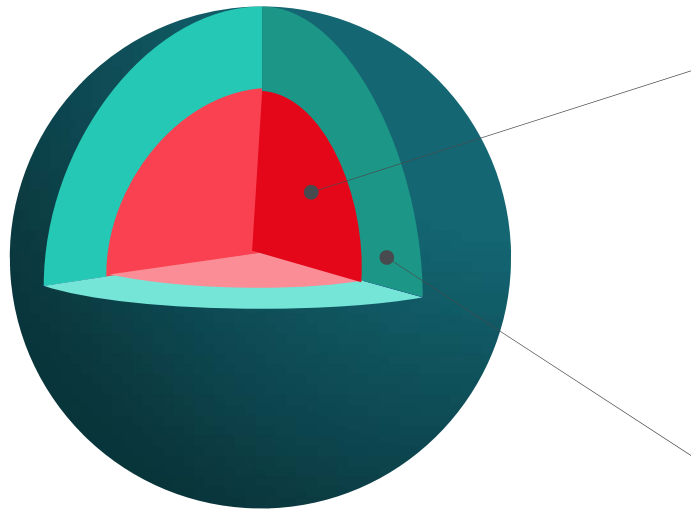


**KARL SCHLOBOHM**  
*Company Secretary*



**PRIY JAYASURIYA**  
*CFO*

# Cobalt & tin are good commodities to invest in



## COBALT CORE TO THE ENERGY REVOLUTION

By 2021, approximately 34% of cobalt demand will be used for electric vehicles  
Concerns over reliable future supply with approximately 50% of global cobalt supply from Congo

## TIN INTEGRAL TO THE ENERGY REVOLUTION

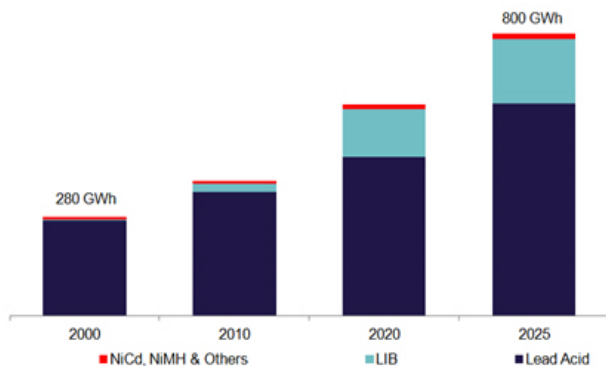
No longer a “tin can” story.

- Electronics - 48% of consumption
- Tin in lead-acid batteries for hybrid cars - 8% of consumption

Concerns over future supply

- LME stockpiles now at historic lows
- Global mine production in decline
- Limited new projects worldwide

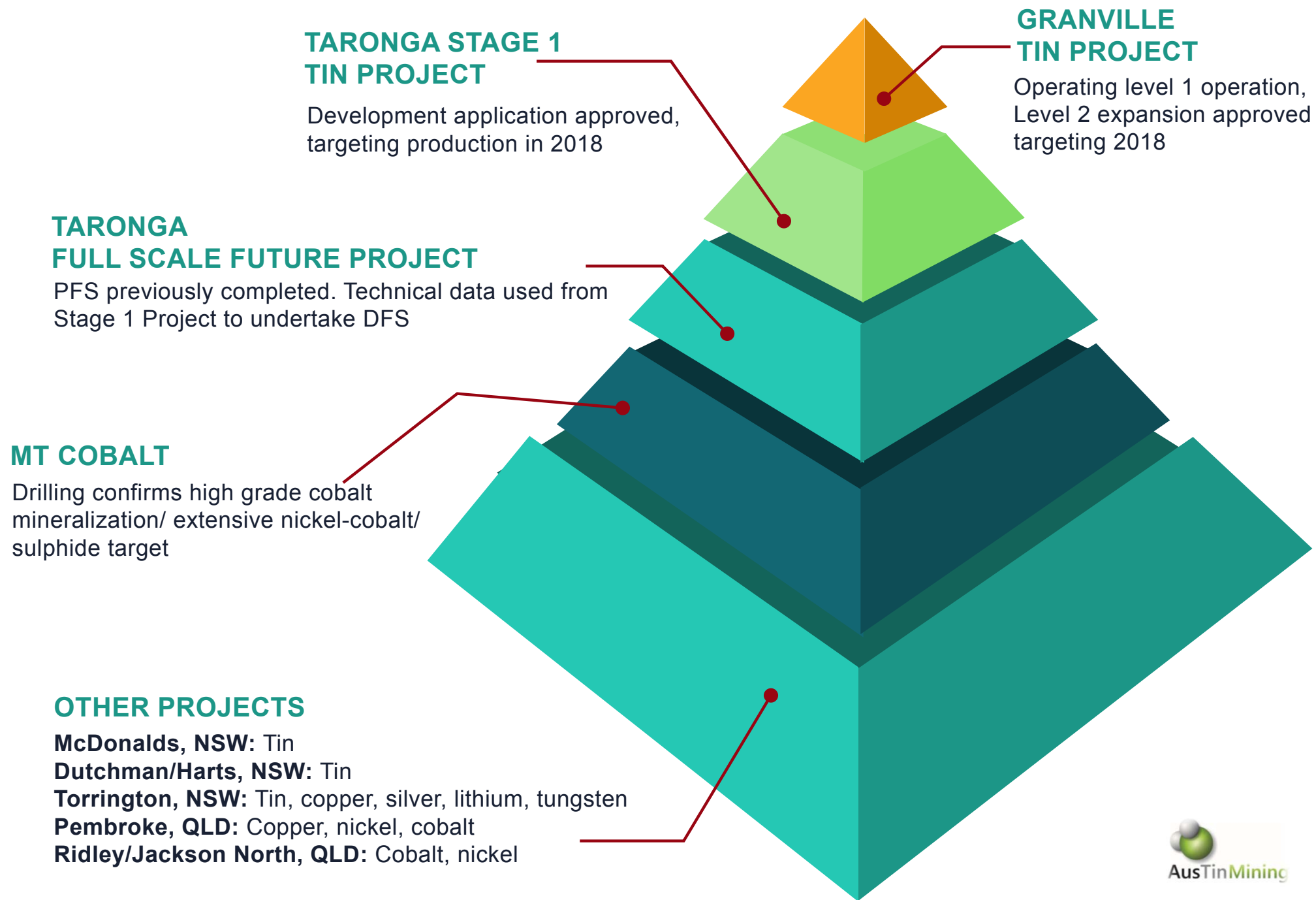
The global rechargeable battery market could double by 2025, dominated by the growth of LIBs which has become the battery of choice for EV and electronics



Data: Avicenne, CRU

Source CRU,  
September 2016

# Tiered portfolio provides platform for growth



# Taronga Tin Project (NSW)

## Provides scale and significant upside



Shipment Number 1 sold to Traxys Europe

<sup>1</sup> Refer ASX Announcement dated 7<sup>th</sup> December 2015



# Taronga Tin (NSW) - Provides scale and significant upside

Globally Significant  
(57,000 tonnes contained tin)<sup>1</sup>

- Open pit and low strip ratio
- Simple metallurgy
- Region has strong mining heritage
- Resource open at depth

Stage 1 Project  
(De-risk)

- Development Application Approved
- Trial mine & pilot processing plant
- Production of saleable concentrate
- Forecast Revenue > CAPEX/OPEX

Full Scale  
(Large cash flow)

- PFS completed (2014)<sup>2</sup> with estimated revenues of A\$700M
- Potential to increased LOM revenues above A\$1,000M<sup>3</sup>
  - Realising probable range of true grades<sup>2</sup>
  - Recovery of by-product credits

Extend Life of Mine  
(exploration)



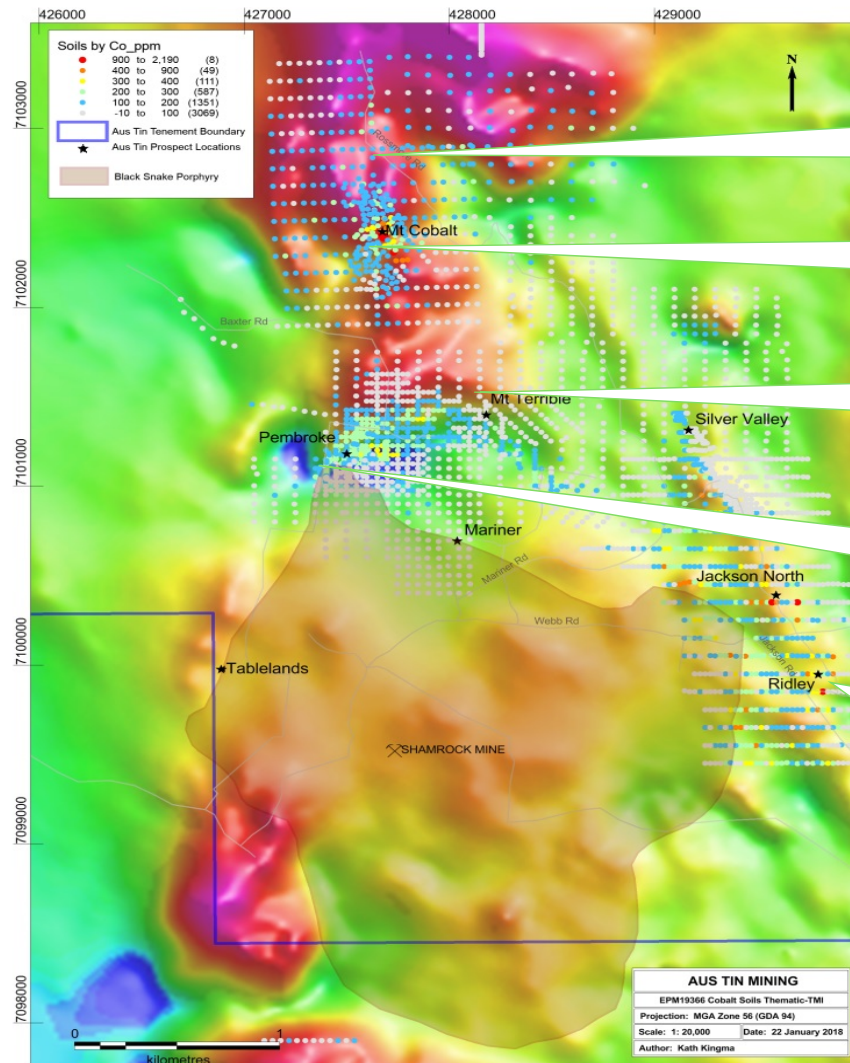
<sup>1</sup> Refer ASX Announcement 26<sup>th</sup> August 2013

<sup>2</sup> Refer ASX Announcement 7<sup>th</sup> April 2014

<sup>3</sup> Refer ASX Announcement 6<sup>th</sup> November 2017

# Mt Cobalt (QLD)

## Significant prospectivity along contact with porphyry



Untested magnetic high: nickel/cobalt target

**Mt Cobalt:** cobalt/nickel

**Mt Terrible:** copper/gold/silver

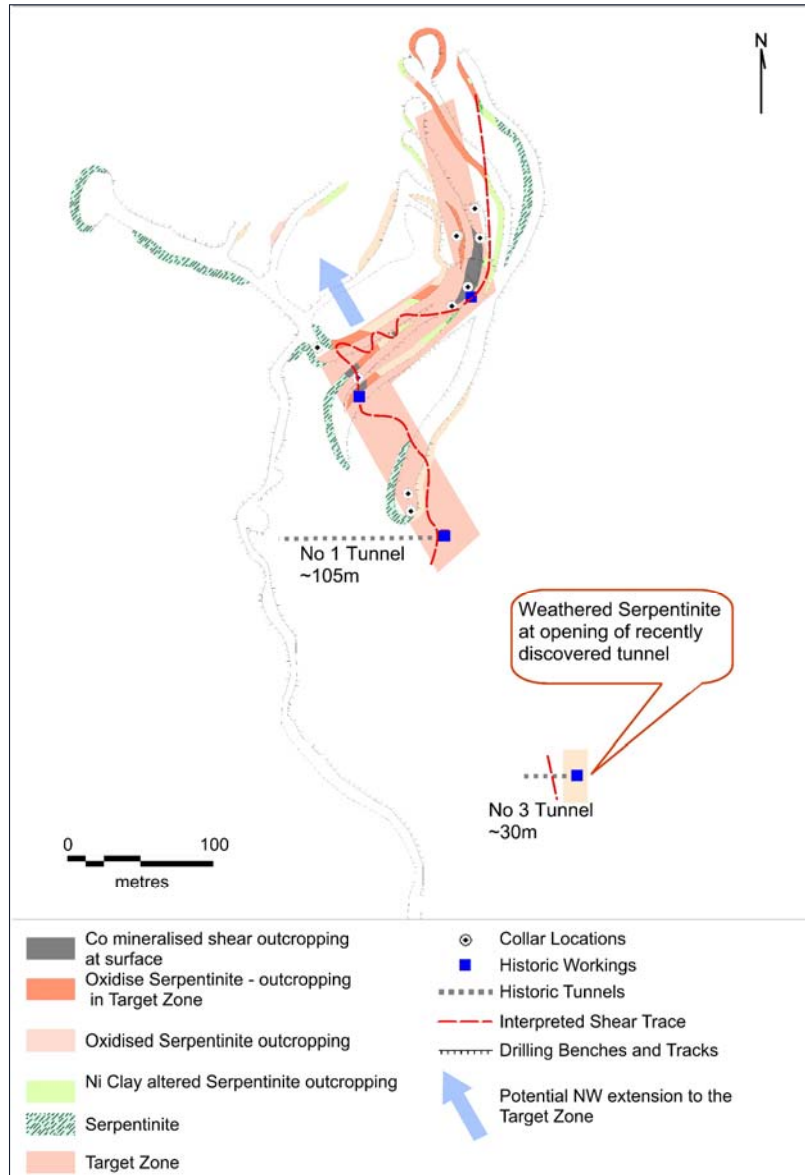
**Pembroke:** copper/nickel/cobalt

**Ridley/Jackson North:** nickel/cobalt

Soil samples for Mt Cobalt to Ridley within EPM 19366 (Co ppm)<sup>1</sup>

# Mt Cobalt (QLD)

## High grade cobalt drilling results



Targeting enriched cobalt-manganese (asbolite) mineralisation

- Historic records report production grades up to 7.5% Co<sup>1</sup>
- Recent drilling results confirm high grade cobalt
  - COB21: 19m @ 0.45% Co, 0.9% Ni<sup>2</sup>
  - COB29: 28m @ 0.29% Co, 0.7% Ni<sup>3</sup>
  - COB30: 0.32% Co, 0.62% Ni over 25m including 1.5m @ 1.48% Co, 1.3% Ni (end of hole)<sup>4</sup>
- Current Target zone 350m long x 25m wide and open at depth and down dip to west<sup>3</sup>
- Recent field reconnaissance identified weathered serpentinite host rock 190m south of target zone<sup>5</sup>

<sup>1</sup> Refer ASX Announcement dated 5 July 2016

<sup>2</sup> Refer ASX Announcement dated 23 November 2016

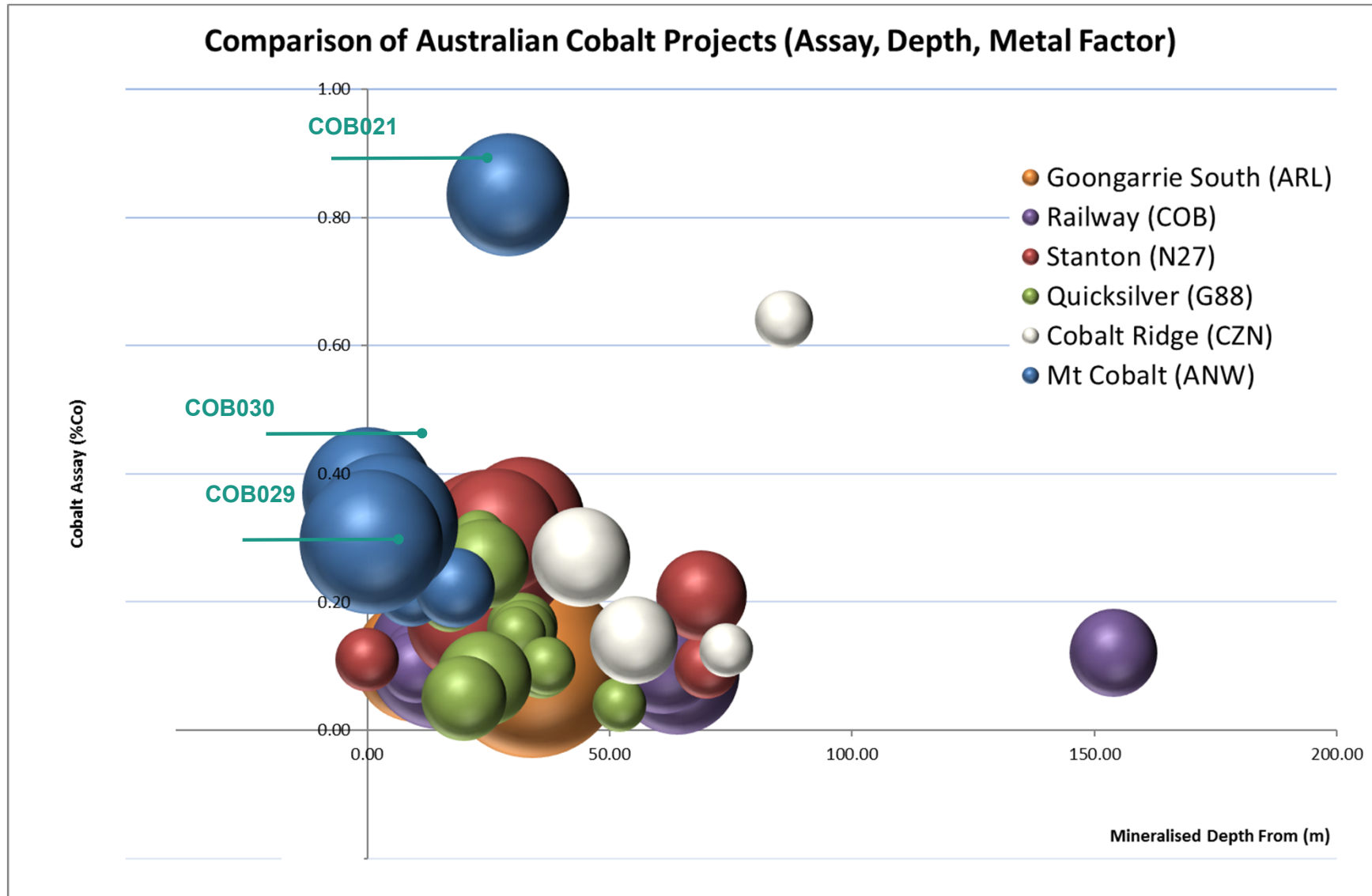
<sup>3</sup> Refer ASX Announcement dated 23 January 2018

<sup>4</sup> Refer ASX Announcement dated 16 February 2018

<sup>5</sup> Refer ASX Announcement dated 5 March 2018

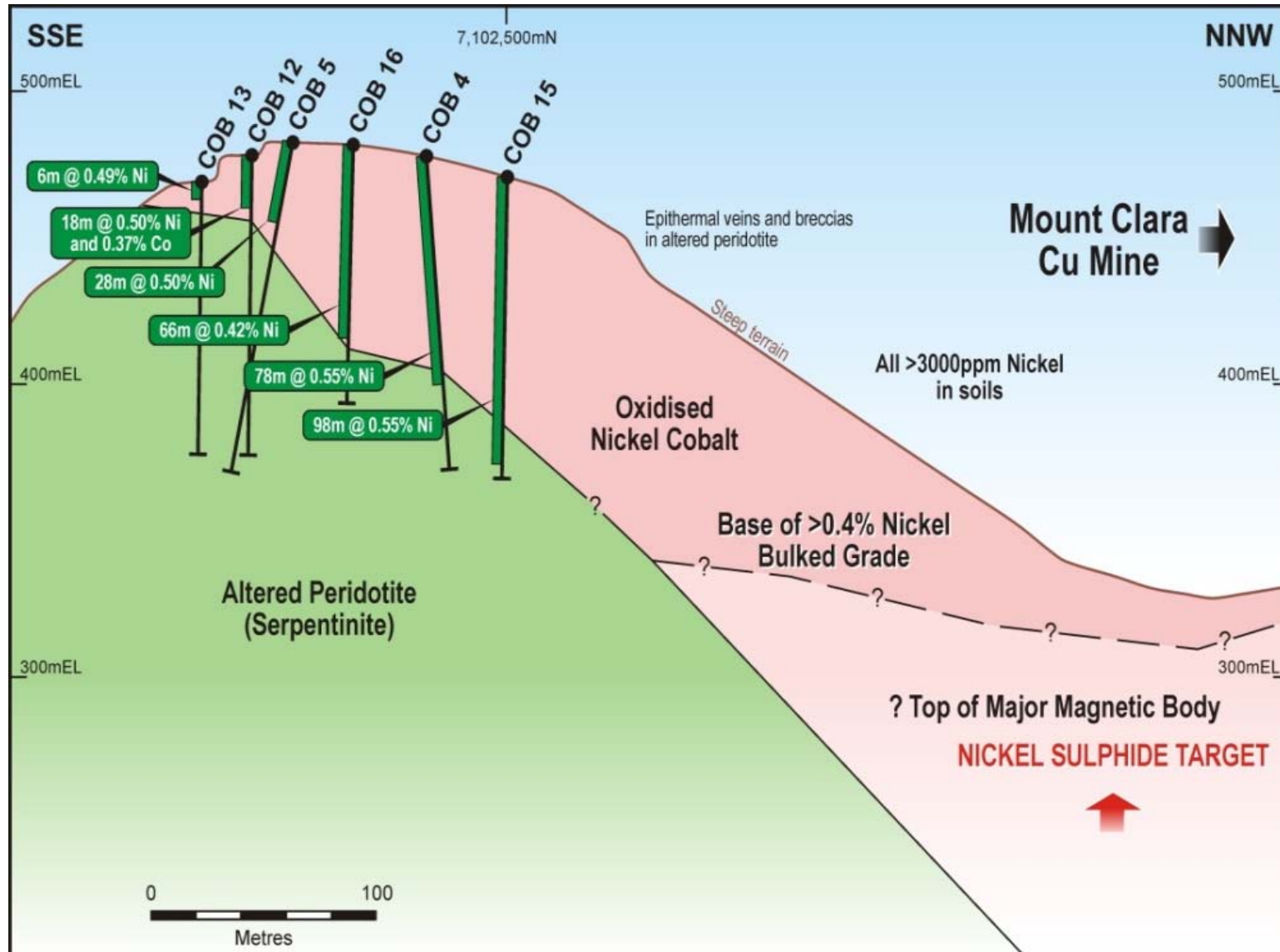
# Mt Cobalt (QLD)

## Mt Cobalt compares favorably with other cobalt projects



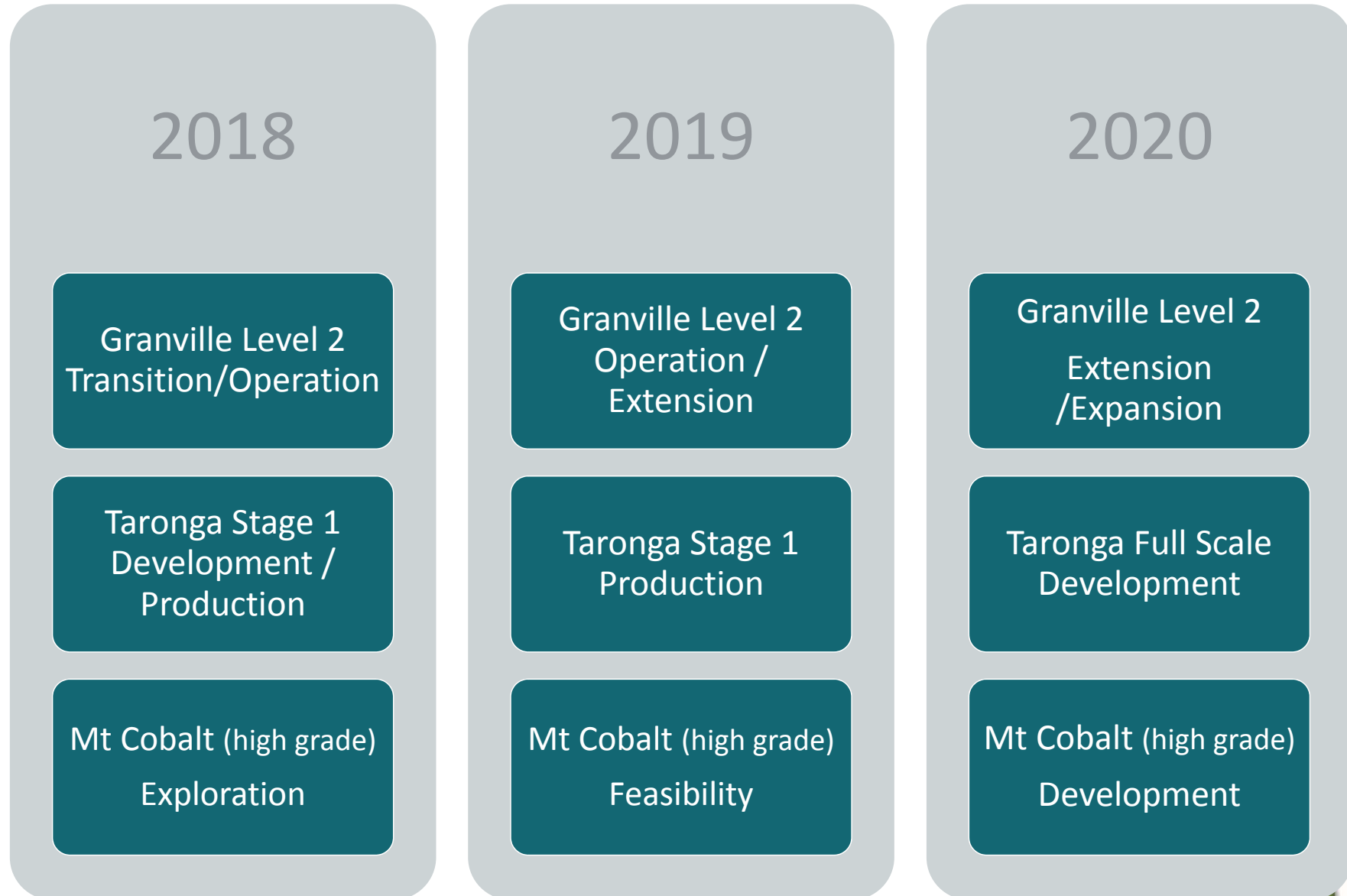
# Mt Cobalt (QLD)

## Extensive nickel/cobalt mineralisation trending to north



# Planned activities over next three years

## Targeting growth through development and production



# 5 reasons to invest



Cobalt and tin are critical metals for the energy revolution



Delivering a production focused strategy for tin at Granville and Taronga Tin Projects



Exciting exploration potential for cobalt & nickel at Mt Cobalt with multiple target zones



Exploration potential for other key metals at Torrington



Active calendar for next 12 months

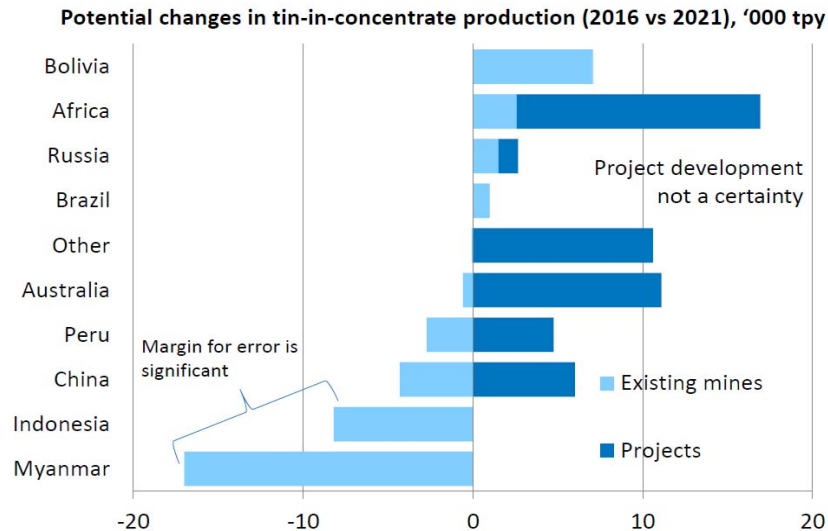
# Supporting Slides





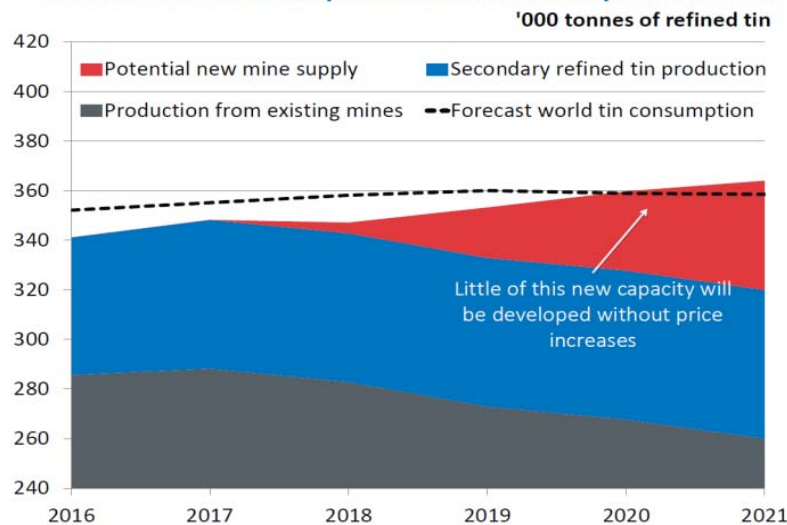
# Market fundamentals support a rise in the tin price

## Changes in mine production to 2021



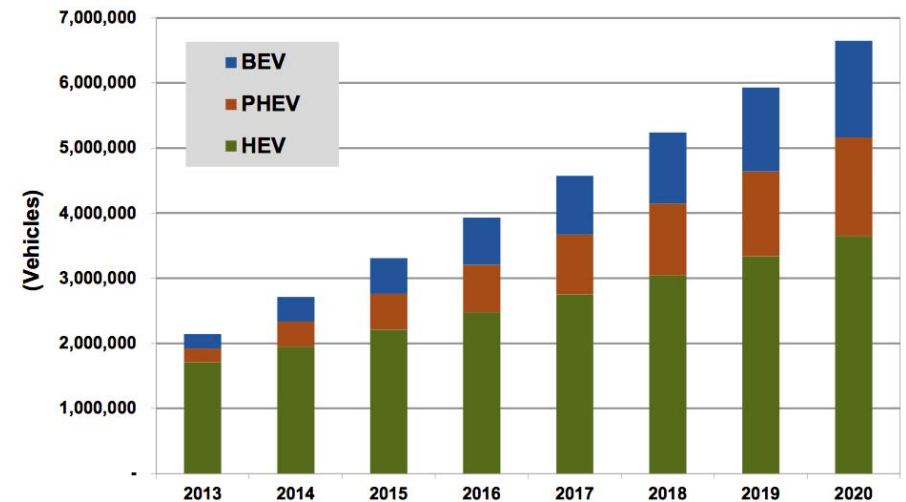
Source: ITRI May 2017

## Sources of refined tin production vs consumption to 2021



Source: ITRI May 2017

Chart 1.1 Annual Light Duty Electric Vehicle Sales by Drivetrain, World Markets: 2013-2020



(Source: Navigant Research)

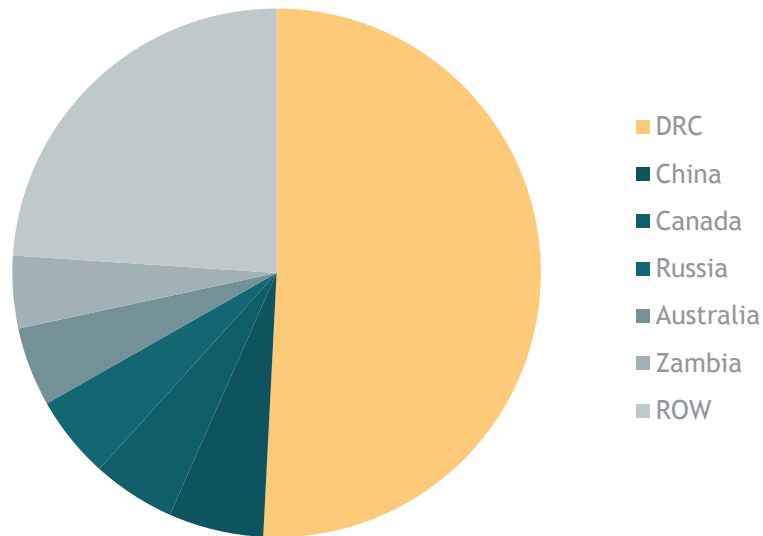
BEV - Battery Electric Vehicles; PHEV - Plug-in Hybrid Electric Vehicles; HEV - Hybrid Electric Vehicles

## Key drivers for tin market

- Declining production from major producing countries
- LME tin stocks at lowest level in 20 years
- Demand growth linked to energy storage, specifically Hybrid Electric Vehicles (HEV) and their requirement for more sophisticated lead-acid batteries

# Market fundamentals also support a rise in cobalt price

Cobalt Production

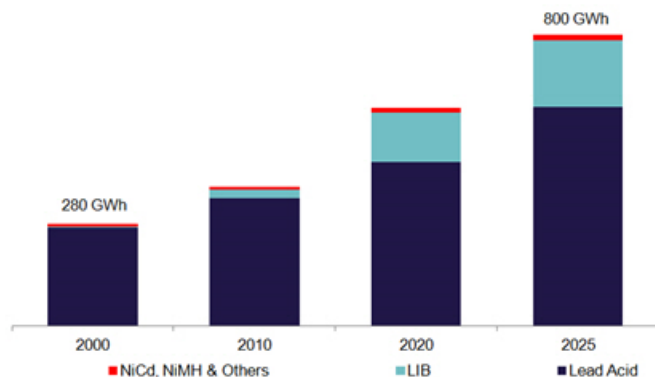


Source: USGS, January 2017

## Key drivers for cobalt

- Cobalt supply chain is vulnerable to supply from Democratic Republic of Congo (DRC)
- Cobalt predominately extracted as by-product of nickel and copper production
- Low visible stockpiles (LME only 700 tonnes)
- Demand growth linked to energy storage, specifically Lithium-ion batteries (LIBs)

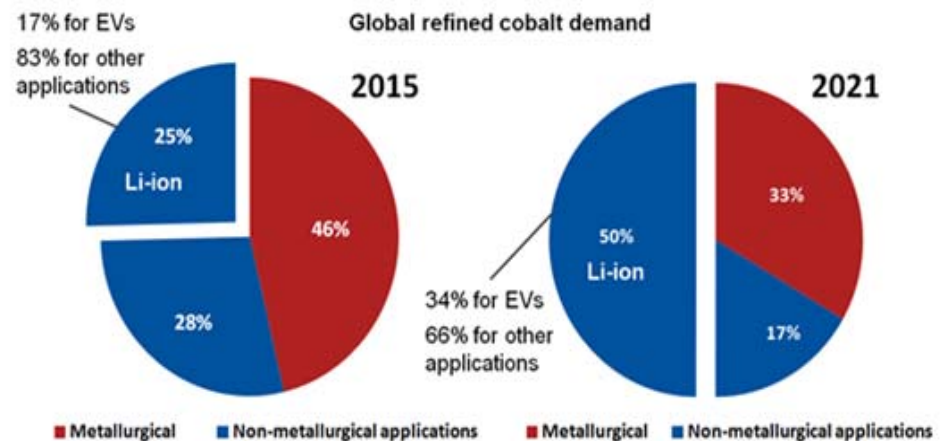
The global rechargeable battery market could double by 2025, dominated by the growth of LIBs which has become the battery of choice for EV and electronics



Data: Avicenne, CRU

Source: CRU, September 2016

## Li-ion will account for 50% of global cobalt demand in 2021



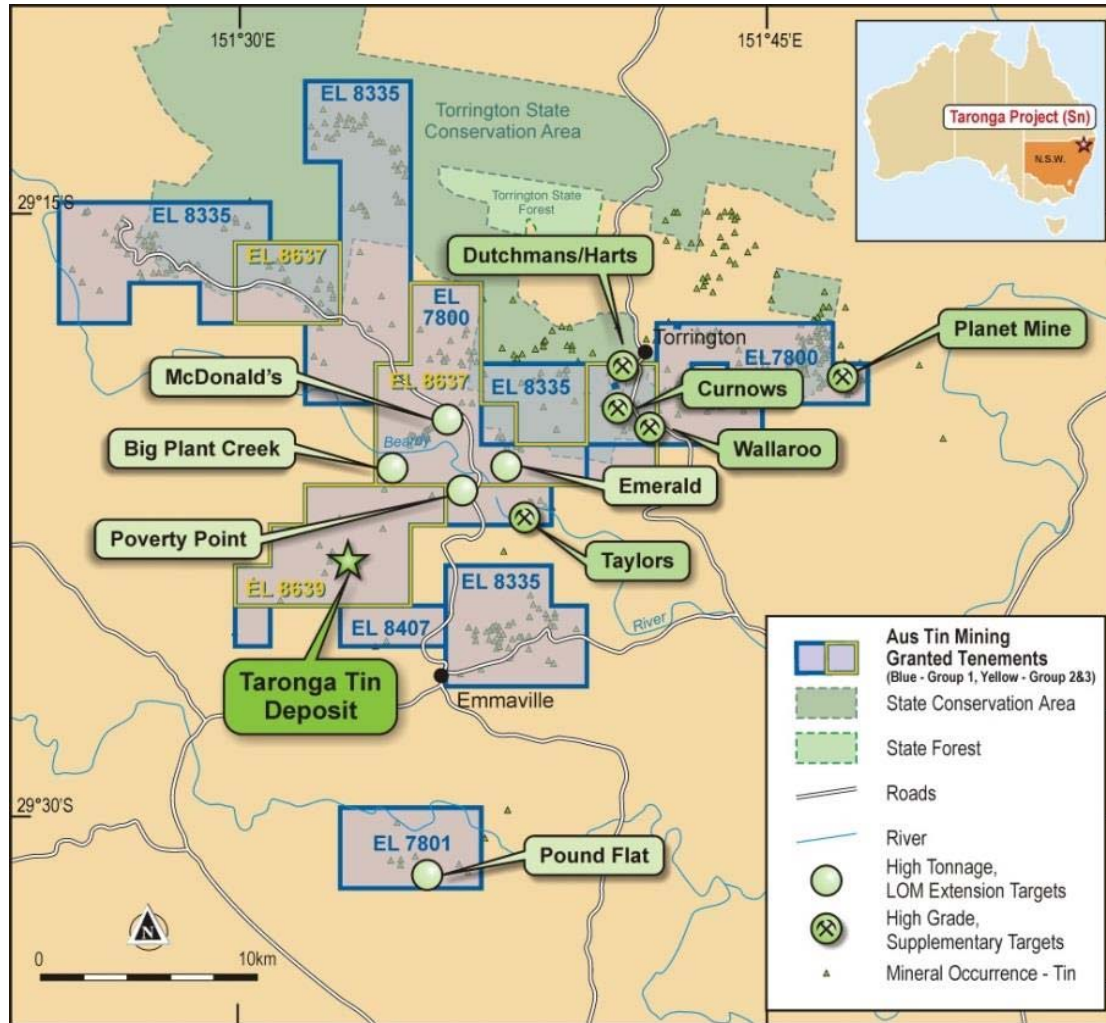
CRU THE INDEPENDENT AUTHORITY MINING | METALS | FERTILIZERS

Data: CRU

© 2016 CRU International Limited. Confidential

Source: CRU, September 2016

# Centralised Taronga mill could unlock highly prospective Torrington region



**By-product credits**  
 (Cu, Ag, Mo, W, Rb, Li)

**Large LOM Extension Targets**  
 McDonalds (2.3km x 0.5km)  
 Emerald (2km x 0.3km)  
 Big Plant Creek  
 Poverty Point

**High Grade Exploration Targets<sup>1</sup>**  
 Dutchman / Harts  
 Curnows & Wallaroo

**Taronga Processing Plant (2.5Mtpa)**  
 To deliver longer line life or higher annual tin production

<sup>1</sup> Refer ASX Announcement dated 2<sup>nd</sup> September 2017

<sup>2</sup> Refer ASX Announcement dated 26<sup>th</sup> August 2013