



Nickel West Reimagining the future

Eduard Haegel, 20 October 2016



Disclaimer

Forward-looking statements

This presentation contains forward-looking statements, including statements regarding: trends in commodity prices and currency exchange rates; demand for commodities; plans, strategies and objectives of management; closure or divestment of certain operations or facilities (including associated costs); anticipated production or construction commencement dates; capital costs and scheduling; operating costs and shortages of materials and skilled employees; anticipated productive lives of projects, mines and facilities; provisions and contingent liabilities; tax and regulatory developments.

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Disclaimer continued

Competent Person Statement

*Mt Keith Mineral Resources are reported for the year ended June 30 2016 in the 2016 BHP Billiton Annual Report which can be found at www.bhpbilliton.com, and are estimated by Marcel Menicheli (MAusIMM). M Menicheli is a full time employee of BHP Billiton, has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration 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, Mineral Resources and Ore Reserves'. M Menicheli consented to the inclusion in the Annual Report of the matters based on his information in the form and context in which it appeared. The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, that all material assumptions and technical parameters underpinning the Mineral Resource estimates in the relevant market announcements continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcements. All tonnes and grade information has been rounded, hence small differences may be present in the totals. Total tonnes of nickel is estimated multiplying the total resource tonnes converted to kilotonnes (kt) by the Ni grade (%Ni) before rounding of tonnes and grades for reporting. All of the Mineral Resources information is inclusive of Mineral Resources that have been converted to Ore Reserves.

**Yakabindie Ore Reserves have been estimated at a cut-off grade of 0.35% nickel as well as 0.15% sulphur. The Project is not material for the BHP Billiton Group. Ore Reserves have been estimated by Deependra Bhardwaj (MAusIMM). D Bhardwaj is a full time employee of BHP Billiton, has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration 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, Mineral Resources and Ore Reserves'. D Bhardwaj consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears. This presentation is based on, and fairly and accurately represents, information and supporting documentation relating to Ore Reserves estimates prepared by D Bhardwaj.

Key underlying assumptions underpinned by the Yakabindie Pre-Feasibility Study (PFS) and subsequent optimisation work includes following:

1. Development of Yakabindie pits (Six Mile Well and Goliath) as satellite operations to Mt. Keith supplying ore to process at Mt Keith concentrator. Mt Keith is an existing mining operation and hosts an open pit mine, a mineral processing plant (11 Mtpa nominal capacity), tailings and waste rock storage facilities and supporting infrastructure including a gas turbine power station, an accommodation village and an airport.
2. The cut-off grade used for Ore Reserves estimation is driven by nickel prices, exchange rates, metallurgical recovery, costs estimates and economic parameters.
3. Open pit mining method using similar size equipment as Mt Keith (700t Shovel and 240t Class trucks) commencing operation in FY2021. Similar operating performance as Mt Keith is used for estimation of Ore Reserves.
4. Overall mining recovery is approximately 95% and spatially applied to the ore bodies.
5. Ore transport to Mt Keith using road train through a dedicated transport corridor between Yakabindie and Mt Keith.
6. Nickel West commissioned the Talc Redesign Project (TRP) to treat high talcose ore in 2011 and has demonstrated the ability to achieve similar nickel recoveries over a range of talc contents in the feed. This has enabled the talc ore from Yakabindie deposits to be treated at Mt Keith Concentrator. Overall metallurgical recovery is 63% which is a result of various metallurgical models.
7. No additional deleterious elements are identified in the Ore and existing mitigation strategies at Mt Keith are adopted.
8. Mill throughput is based on algorithms developed using mineralogy and head grade and subsequently calibrated against the actual Mt Keith mill performance on similar ore types.
9. Ore Reserve estimates are prepared based upon all study work completed until June 2016. This work has been independently reviewed by AMC Consultants.
10. Ore Reserves are estimated at Mine Gate.
11. Nickel West holds the required mining tenure.
12. Process for outstanding regulatory approvals to commence mining is scheduled to commence in FY2017 and Nickel West has reasonable expectations that approvals will be granted prior to commencing operations in FY2021.
13. The basis of Ore Reserves estimation does not include a requirement for Jones Creek diversion.

**We are a fully integrated
mine-to-market nickel
business, with all our
operations – mines,
concentrators, a smelter and
a refinery – located in
Western Australia.**



Safety and sustainable operations above all else

Before



Reduction sun deck Kwinana

After



22/07/2015
Australian Nickel Conference
20 October 2016



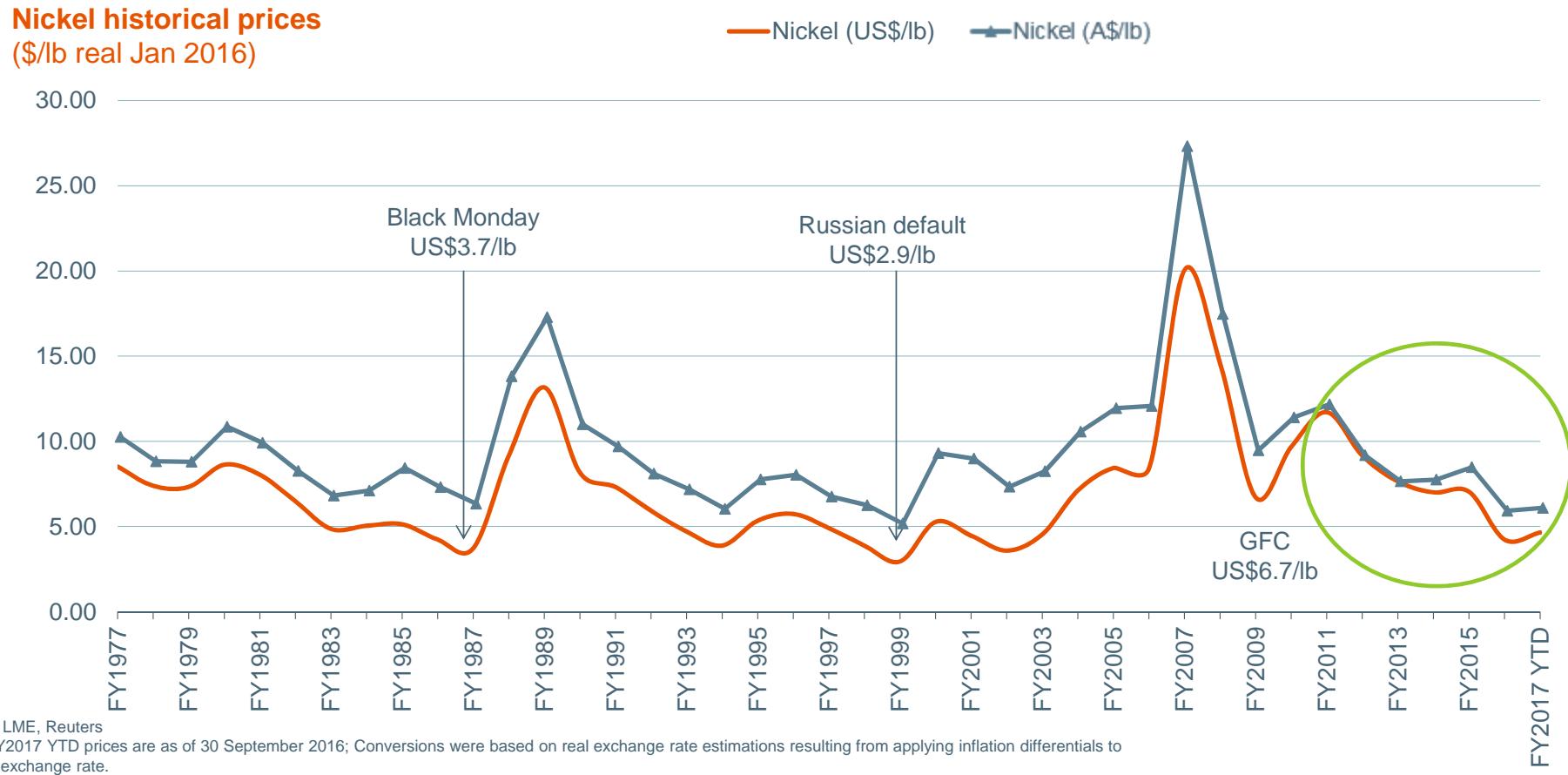
Steelwork support Kwinana



Leinster filter building



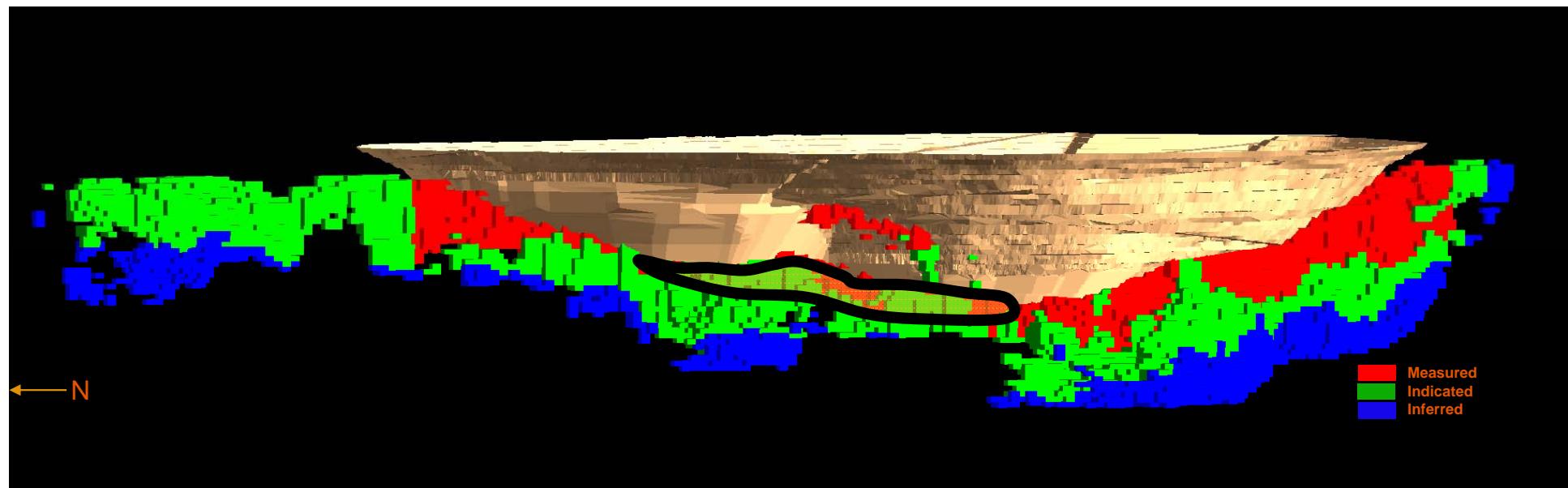
Market outlook remains challenging



In many ways, this is the business that has led the charge on making things more efficient, despite a very difficult market.

Andrew Mackenzie, BHP Billiton CEO

Mt Keith remains a rich source of opportunity

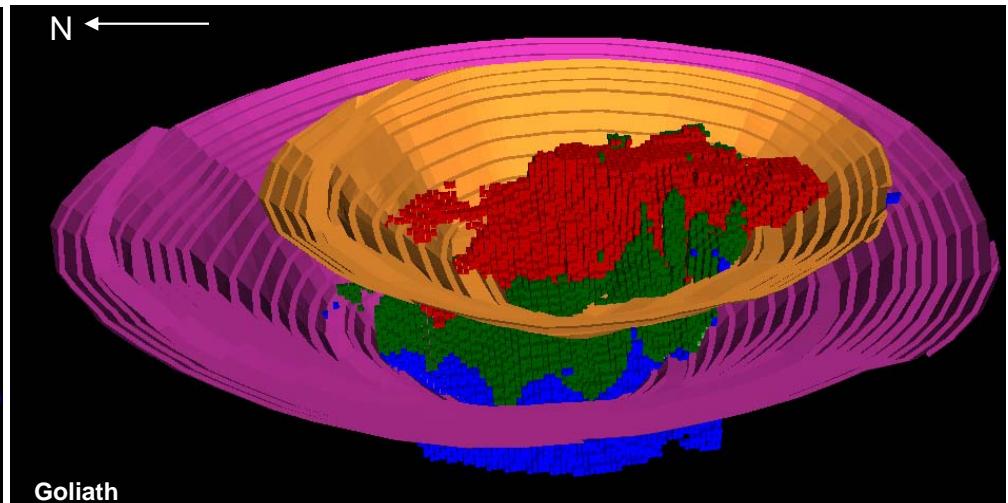
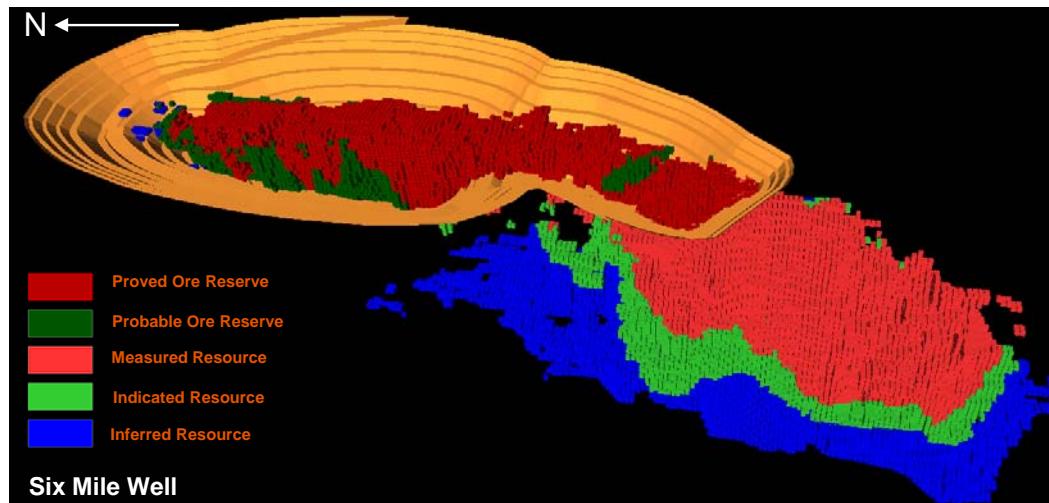


Mt Keith Mineral Resources * as at 30 June 2016 in 100% terms reported in accordance with the JORC Code

Ore Type	Measured Resources		Indicated Resources		Inferred Resources		Total Resources	
	Million Tonnes	Ni%	Million Tonnes	Ni%	Million Tonnes	Ni%	Million Tonnes	Ni%
Disseminated sulphide	153	0.55	106	0.48	35	0.48	294	0.52

*refer to disclaimer slide 3

Mt Keith satellite secures future opportunities

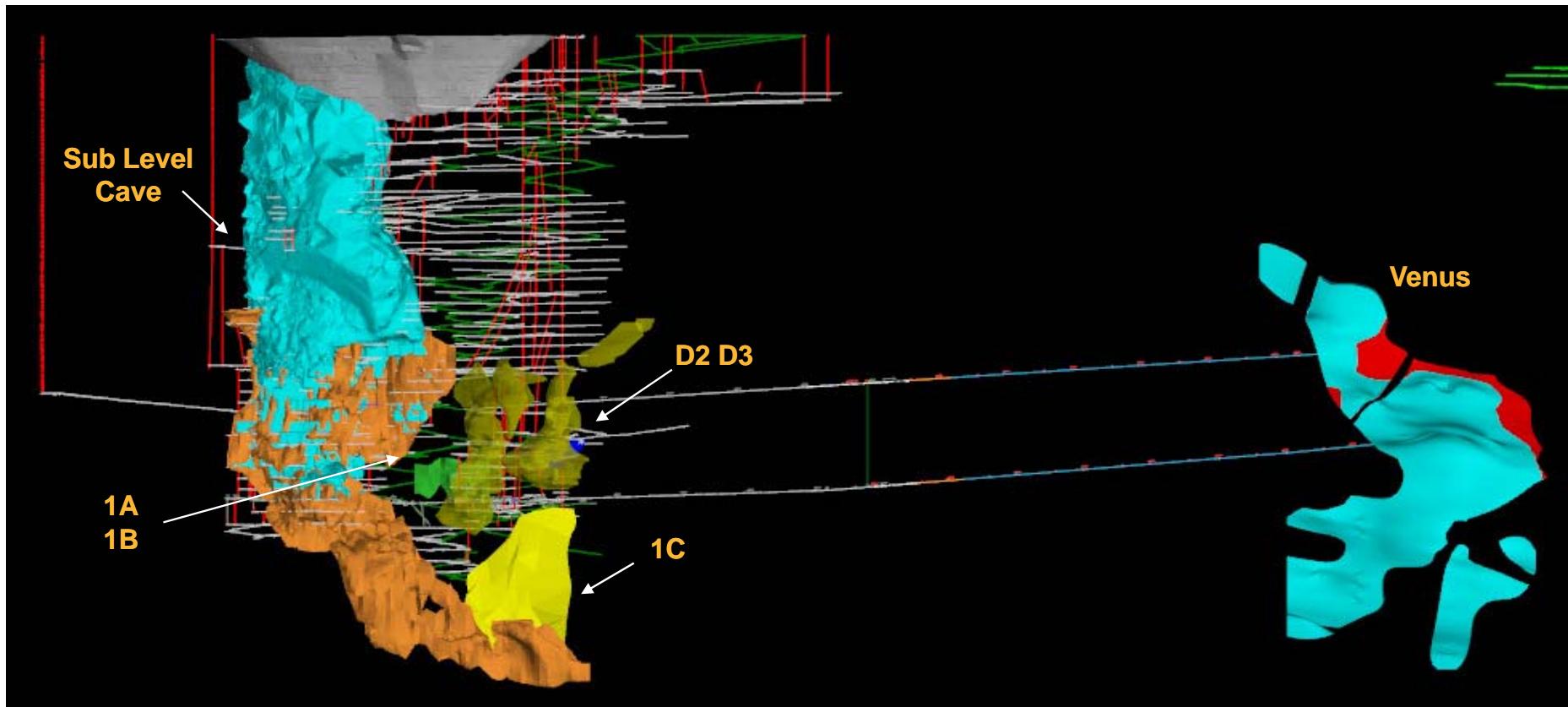


Yakabindie Ore Reserves** in 100% terms reported in accordance with the JORC Code

Ore Type	Proved Ore Reserves		Probable Ore Reserves		Total Ore Reserves	
	Million of Dry Metric Tonnes	Nickel Grade (%)	Million of Dry Metric Tonnes	Nickel Grade (%)	Million of Dry Metric Tonnes	Nickel Grade (%)
Open Cut (OC)	57	0.60	39	0.62	96	0.61

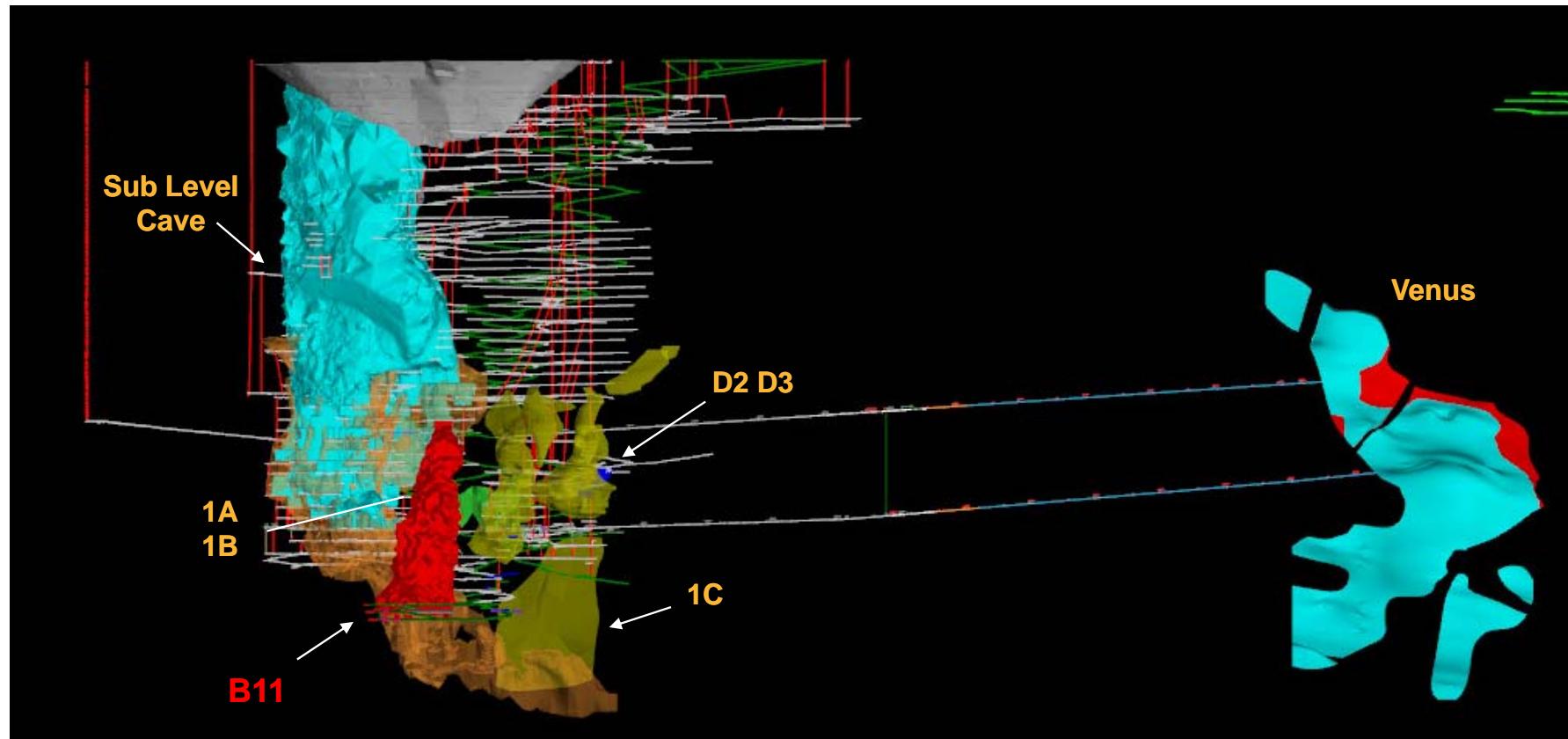
**Yakabindie Ore Reserves refer to disclaimer slide 3

Our journey to Venus is on track



Source: BHP Billiton

As we unlock further potential at Leinster



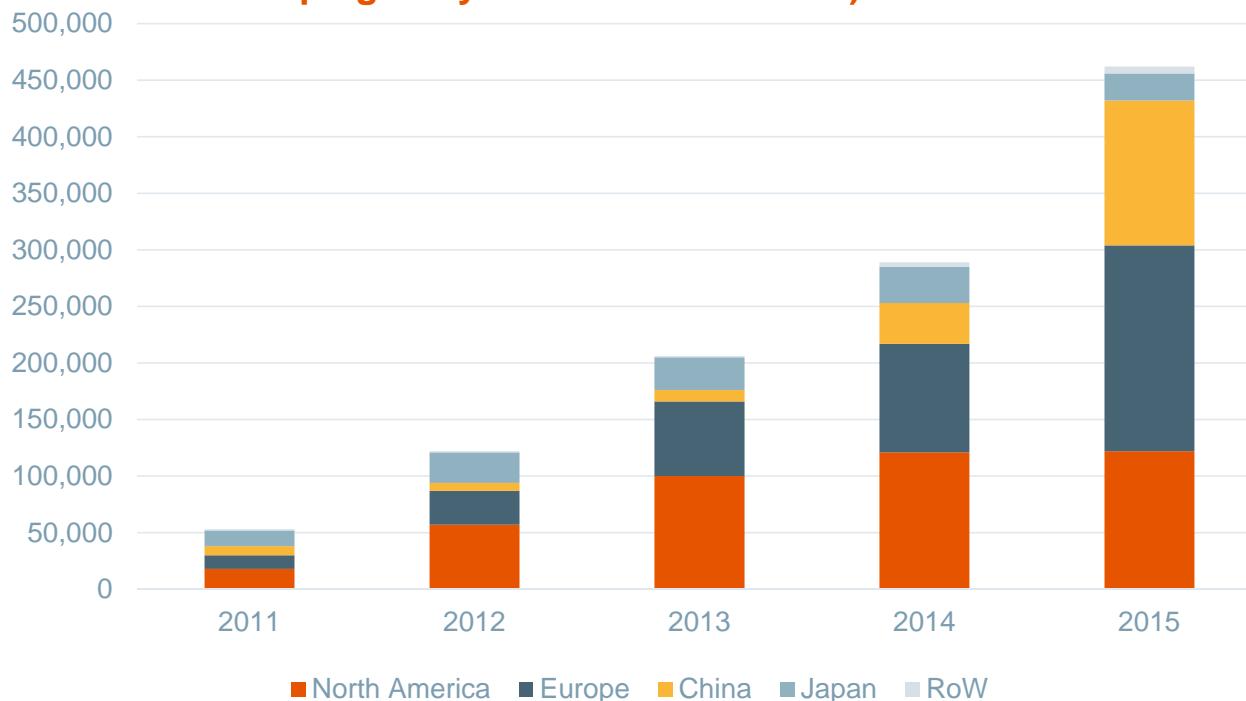
Source: BHP Billiton

Innovation improving refinery front-end to 77ktpa



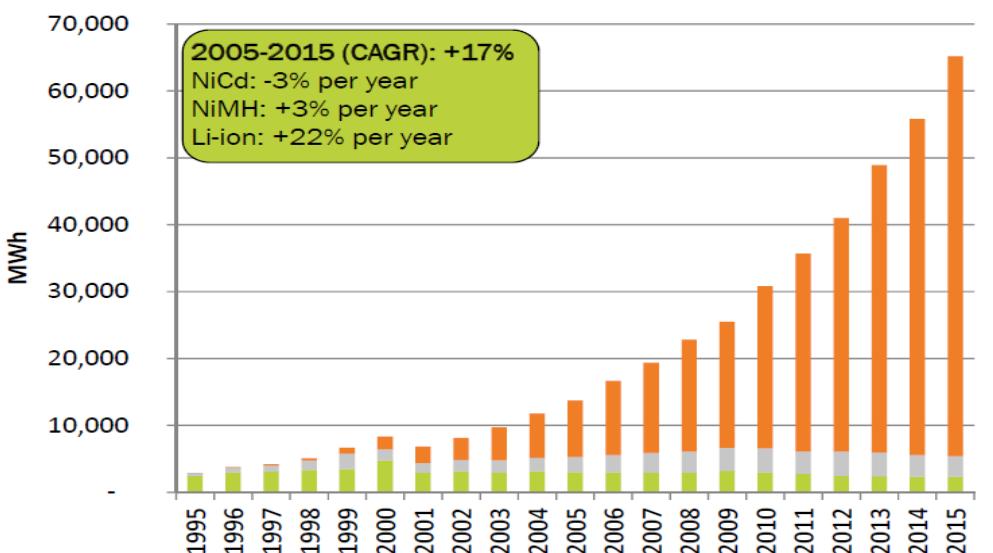
Future technologies are growing rapidly

Total Electric Vehicle (battery electric vehicles +
plug-in hybrid electric vehicles) Sales



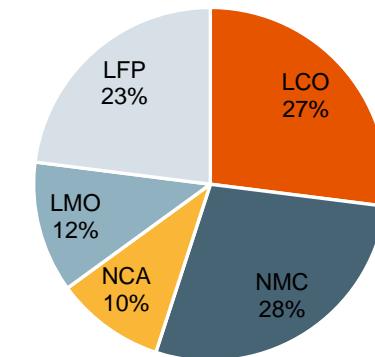
Source: Global Trends in New Energy Investment 2016 – Bloomberg New Energy Finance

NCA and NCM lithium ion batteries are front-runners for these applications

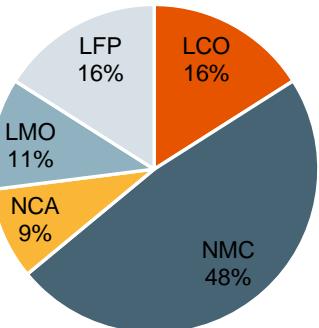


Source: Avicenne Energy 2016

Cathode active materials in 2015



Cathode active materials in 2025



How does nickel get used in a lithium ion battery

Nickel dissolved in sulphuric acid



Nickel sulphate

Solvent extraction



Nickel and cobalt sulphate

Mixing, calcination and heat treatment



Battery cathode precursors

We are reimagining the future

- We continue to invest in the business.
- We continue to apply new thinking to unlock resource potential.
- We are looking at developing a 2038 life of asset plan.
- We are reshaping our business, we are reimagining our future.





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