



Investors Presentation | November 2015



★ Yangibana



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All currency amounts are in AUD\$ unless stated otherwise.

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Exploration Targets

The terms "Target" or "Exploration Target" where used in this presentation should not be misunderstood or misconstrued as an estimate of a Mineral Resource as defined in this context. Exploration Targets are conceptual in nature, there has been insufficient exploration to define a Mineral Resource and it is uncertain further exploration will result in the determination of a Mineral Resource.

Competent Persons' Statement

- The information in this presentation that relates to Resources is based on information compiled by Simon Coxhell. Simon Coxhell is a consultant to the Company and a member of the
- Australasian Institute of Mining and Metallurgy. The information in this presentation that relates to Exploration Results is based on information compiled by Andy Border, an employee of the
- Company and a member of the Australasian Institute of Mining and Metallurgy.
- Each has sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this report and to the activity which they are 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' ("JORC Code"). Each consents to the
- inclusion in this presentation of the matters based on his information in the form and context in which it appears.

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Experienced Board & Management



Charles Lew

Executive Chairman

- Private investor and entrepreneur
- Independent Director of RHB Banking Group since 2004
- 30+ years experience in investment banking



Guy Robertson

Chief Financial Officer & Company Secretary

- 25+ years CFO experience
- Former senior finance executive with Jardine Lloyd Thompson, Colliers, Franklins



Charles Tan

Commercial Manager

- 20+ years in Commercial & Procurement Management
- Mineral sands & aluminium mining



Tony Ho

Non Executive Director & Chair of Audit Committee

- Director of Bioxyne, Greenland Minerals, and Apollo Minerals
- 35+ years in senior corporate management with Brazin, Yates and Dolomatrix



Malcolm Mason

Non Executive Director

- 45+ years experience in Australian and international exploration and mining
- Experience covers rare earths, uranium, gold and base metals



Andy Border

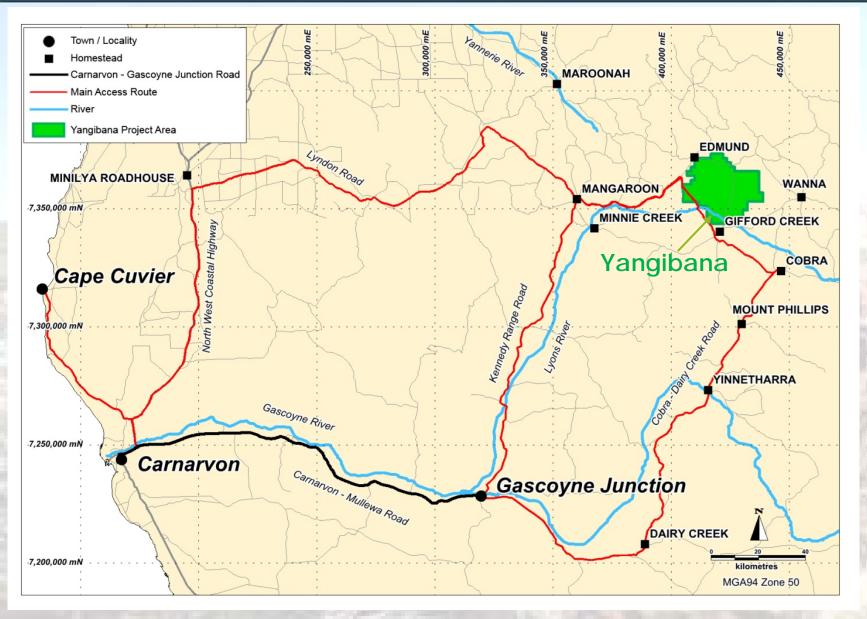
General Manager Exploration

- 35+ years experience as a geologist
- Rare earths, copper, gold and industrial minerals

ASX Listed Stock Code: HAS



Yangibana Project - Location



Accessible from Carnarvon

- In the Gascoyne Region of Western Australia
- 900km north of Perth
- 280km north-east of Carnarvon
- 170km north-north-east Gascoyne Junction
- Bitumen road from Carnarvon to Gascoyne Junction
- Shire maintained road to southern Project boundary



Yangibana Project - Geography



- Flat, open ground with excellent outcrop
- Located on the drainage divide between the Gascoyne River system and the Ashburton River system to the north
- Situated on Wanna Pastoral Station
- Uninhabited



Yangibana Project - Outcropping Ironstones

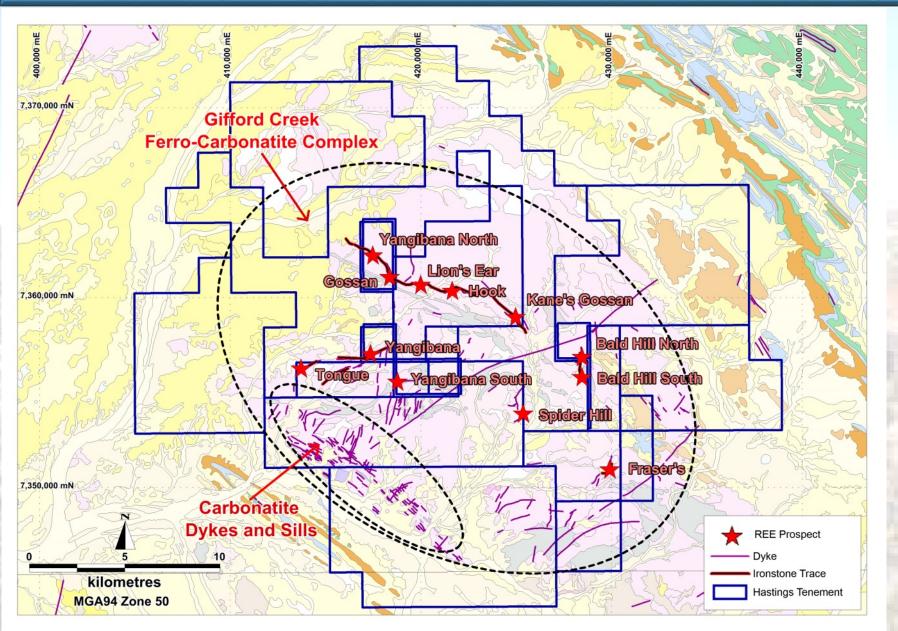


History:

- Significant rare earths mineralisation was intersected at Yangibana in the 1980s by Hurlston Pty Ltd.
- Rare earths rich monazite mineralisation located in widespread ironstone outcrops.
- Percussion drilling intersected significant mineralisation at 12 prospects beneath ironstone outcrops.



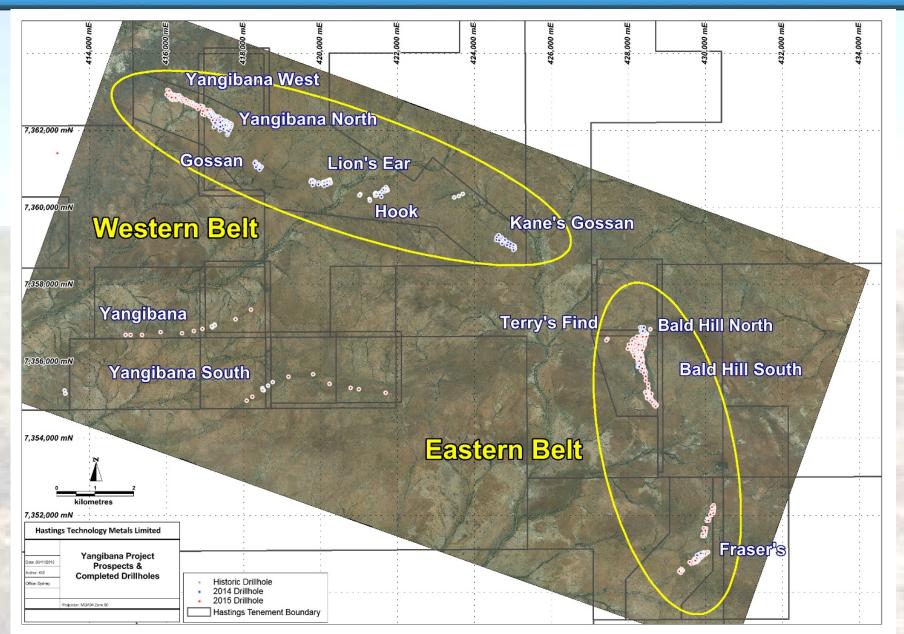
Yangibana Project - Tenements and Geology



- Yangibana Project controls all areas considered to have potential for Yangibana-style Neodymium rich Rare Earths mineralisation
- Tenements cover
 650km²
- Potential for large scale carbonatitehosted Rare Earths mineralisation at depth



Location of Yangibana Rare Earths Prospects





Yangibana Project - Markets and Nd₂O₃-Eq

Products and Markets

- Neodymium, Praseodymium, Dysprosium and Europium are Yangibana's main economic Rare Earths and Hasting's efforts are directed to recovery of these 4 key rare earths.
- Neodymium and Praseodymium account for 86% of total in-ground value.
- Our market is the rare earths magnets sector; the most important of the rare earths market and with the greatest potential for growth



Yangibana Project - Neodymium The Economic Advantage

Neodymium-rich Rare Earths in the Eastern Belt

- Western Belt mineralisation: Nd_2O_3 comprises about 18% of TREO
- Eastern Belt mineralisation:
 - Nd₂O₃ comprises about 33% of TREO at Bald Hill South and
 - more than 40% at Fraser's Deposit
- Hydrometallurgical and refining costs are a major part of mining and processing operating costs and directly proportional to the TREO treated
- Double the neodymium content of the TREO (ie in the Monazite) doubles the cash flow
- That is a higher content of Neodymium in the Monazite means a much more profitable operation

Eastern Belt mineralisation recognised as the main economic driver of the Yangibana Project



Yangibana Project : PFS JORC Resources

PFS Resource Drilling Objective: Delineate pit optimised JORC Indicated Resources sufficient for a proposed 1mtpa mining operation for 6-7 years additionally supported by JORC Inferred Resources sufficient for a 15-year mining operation

2015 Exploration drilling for the PFS concentrated on the economically important neodymium rich Eastern Belt and on 100% owned ground to the west of Yangibana North

Results of Resource Drilling

- JORC Indicated Resources have been established at Bald Hill South, Fraser's, Yangibana West and Yangibana North
- Hastings has tested eleven targets to date, of which eight have sufficient drilling to enable JORC resources to be estimated



Yangibana Project : PFS Total JORC Resources

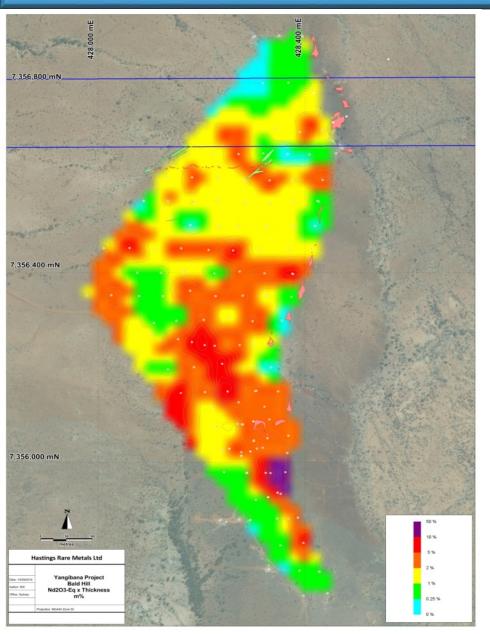
Resource Category	Tonnes	%TREO	%Nd ₂ O ₃ -Eq
Indicated	8,126,000	1.07	0.46
Inferred	4,236,000	1.07	0.41
TOTAL	12,362,000	1.07	0.44

These resources contain 132,500 tonnes of TREO, including 33,900 tonnes of Nd_2O_3 8,950 tonnes of Pr_2O_3 590 tonnes of Dy_2O_3 , and 920 tonnes of Eu_2O_3

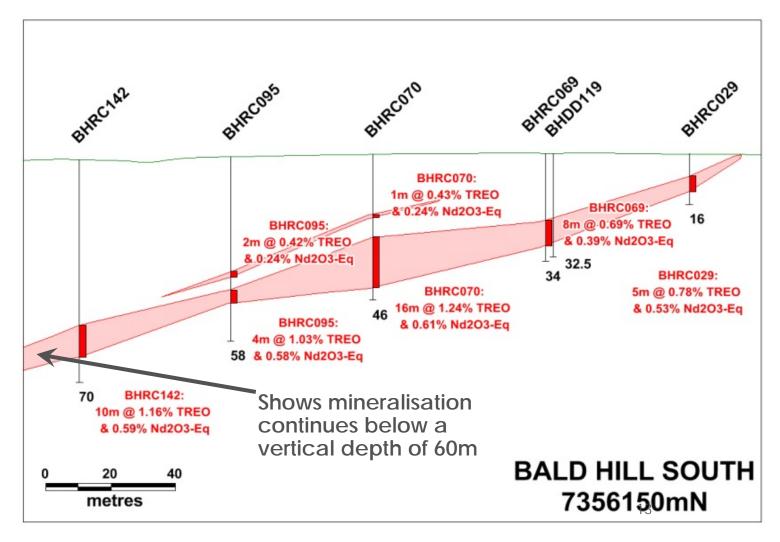
(Global, Cut-off 0,25% Nd₂O₃-Eq, diluted & within wireframes)



Yangibana Project : PFS Bald Hill South Deposit

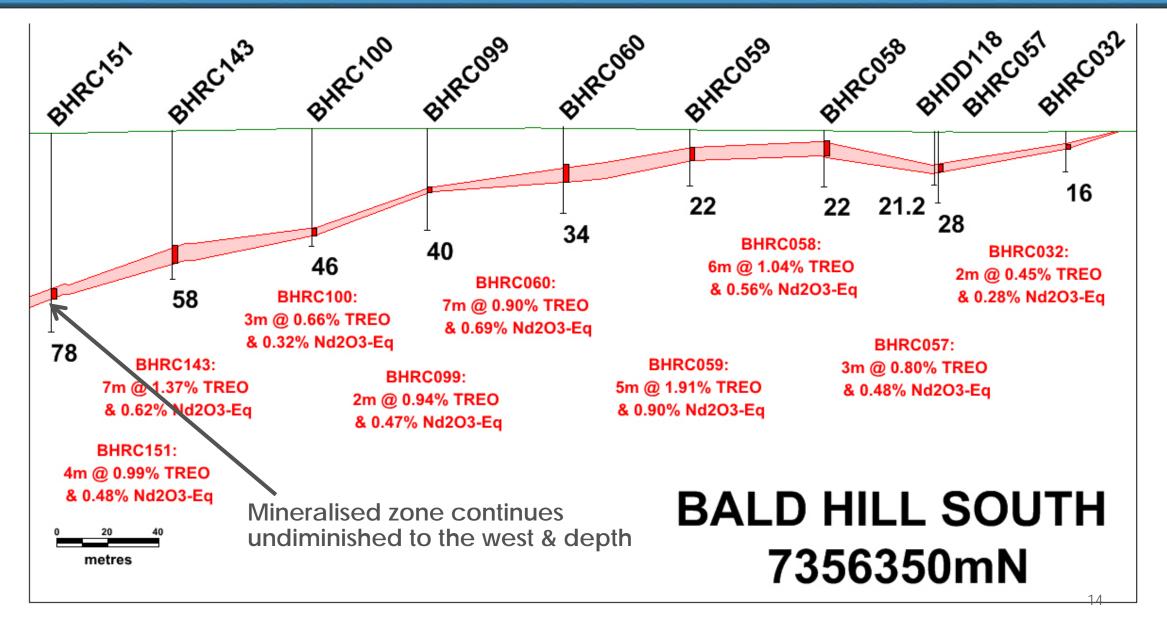


Plan showing Thickness x Nd₂O₃-Eq% contours Mineralisation intersected over more than 1,200m strike length



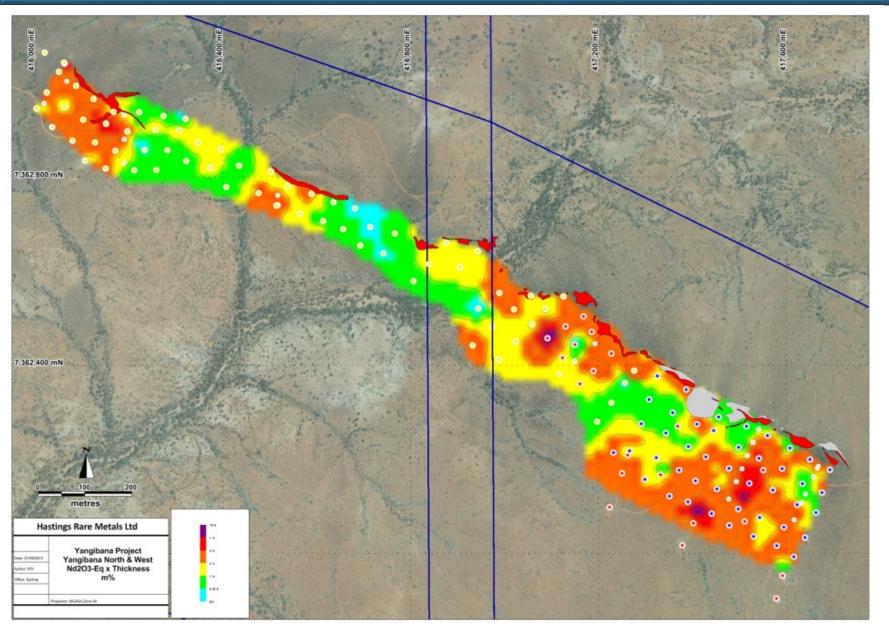


Yangibana Project : PFS Bald Hill South Deposit





Yangibana Project : PFS Yangibana West and North Deposits



Yangibana West & North

Thickness x Nd₂O₃-Eq% contours

showing well defined
high grade shoots within
a continuous and
extensive Ironstone vein
defined by drilling over
more than 1,600m strike
length

The mineralised limits of the vein are open in both directions along strike and also in depth



Yangibana Deposits - Resource Drilling Results

Summary

All Yangibana Deposits drilled to date have significant:

- high grade neodymium, praseodymium, dysprosium and europium Resources
- mineralisation that is open-ended along strike and at depth
- RE Resources are amenable to low cost open pit mining operations

Conclusion

Further similar mineralisation may be expected:

- as extensions to the eight drilled deposits
- known undrilled prospects and
- beneath the extensive outcropping zones between the defined prospects.

Further significant open-pittable resources are anticipated from future drilling programmes



Yangibana Project : PFS Mining Studies

Pit Optimisations: Based on the JORC Indicated Resources, expected metallurgical recoveries and predicted commodity prices, Snowden completed pit optimisation at Bald Hill South, Fraser's, Yangibana West (100% Hastings) and Yangibana North (70% Hastings) deposits

Summary of Optimised Pits

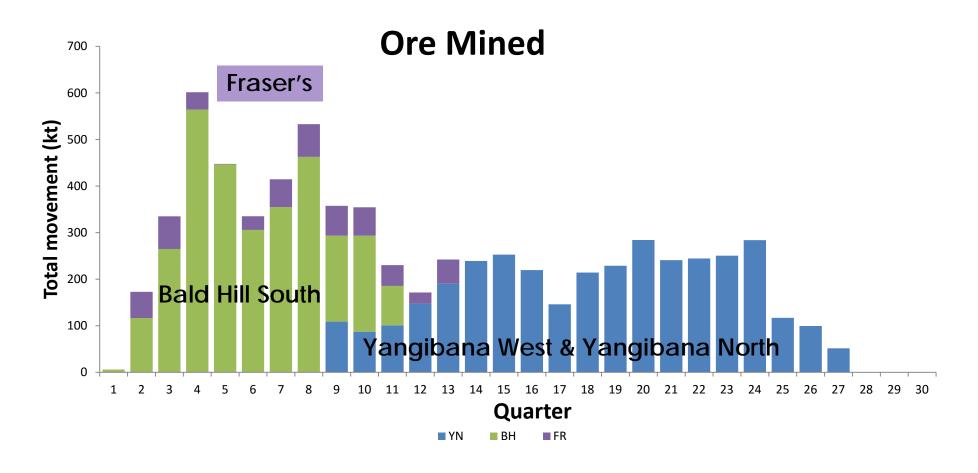
	Bald Hill South	Fraser's	YW-YN	Total
Ore	3.00mt	0.57mt	3.51mt	7.07mt
Waste	18.91mt	11.53mt	35.85mt	66.29mt
Stripping ratio	6.3	20.3	10.2	9.4

- Almost all Indicated Resources are extracted, indicating that deposits remain economically viable well beyond current planned final pit depths
- Hence there is scope by additional drilling along strike and at depth to increase Resources amenable to open pitting

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Yangibana Project : PFS Mining Studies



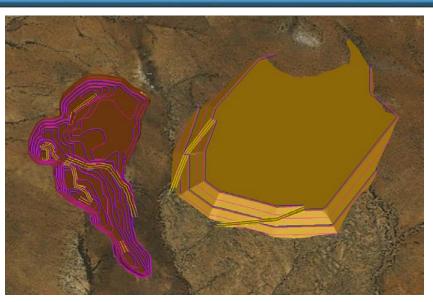
Mine Scheduling: Studies show a superior financial outcome is generated by commencing mining operations on the Eastern Belt

Firstly at Bald Hill South & Fraser's prior to mining Yangibana West & Yangibana North



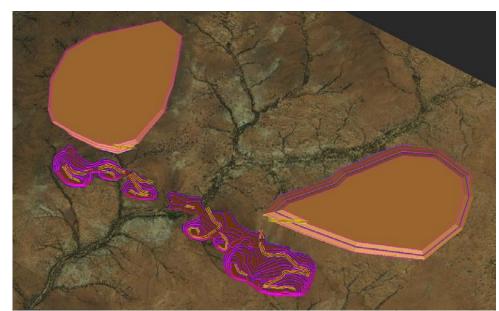
Yangibana Project : PFS Mining Studies

BALD HILL SOUTH PIT



FRASER'S PIT





Optimised pits and associated waste dump designs:

YANGIBANA WEST - YANGIBANA NORTH PITS



Yangibana - Metallurgical Test Work

Comminution:

 Standard tests confirm mineralisation is quite friable and significantly different to the host granite

Beneficiation Test Work

- Gravity, magnetics, and flotation techniques all showed promise
- Flotation showing vastly superior results

Hydrometallurgical Test Work

 Caustic cracking having a well documented history in the treatment of monazite-hosted rare earths projects has shown promising results

Refining Test Work

 Scouting tests indicate the main targets, Nd and Pr, can be readily separated from other rare earths



Yangibana Project - Metallurgical Investigations

Beneficiation by Flotation: (Bench scale testing composite drill samples at 80% passing -75micron)

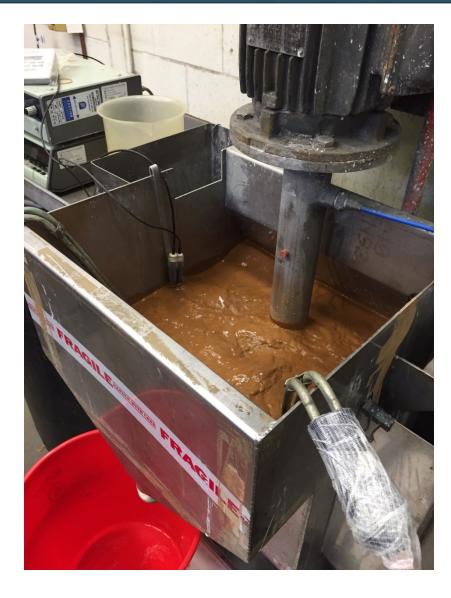
Eastern Belt Deposits (Composite sample Bald Hill South & Fraser's Deposits): concentrate produced with an **18 times** increase in TREO grade to **20.3% TREO** containing **6.9%Nd₂O₃** (10.5%Nd₂O₃-Eq), at a recovery of **80%** into a mass of **5%** of the original mineralisation

Beneficiation Flowsheet: Rapid kinetics. A simple beneficiation flow sheet rougher float, single cleaner and re-cleaner floats and low capital and operating cost beneficiation plant

Hydrometallurgical Plant: small plant of around 50,000 tonnes per annum required



Beneficiation



Flotation technique



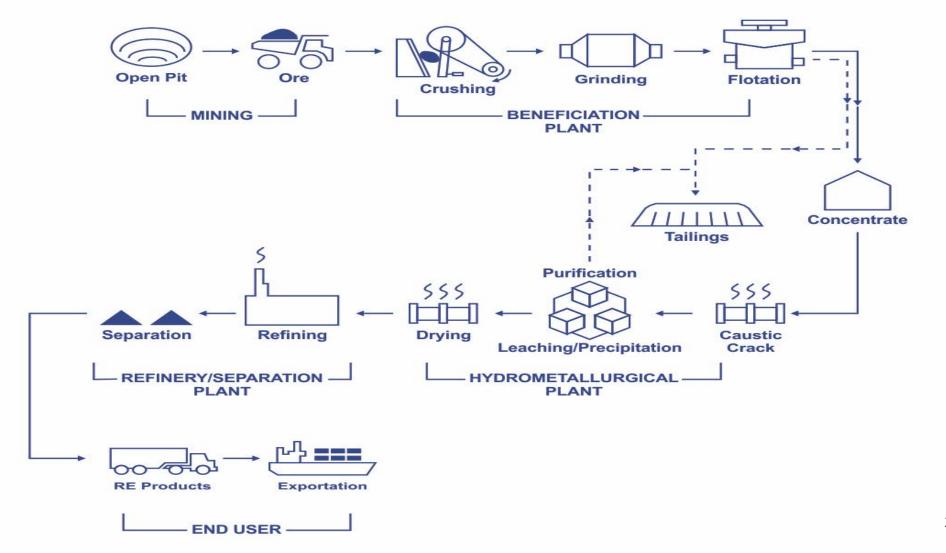






Yangibana Project - Simplistic Processing Flow Sheet

Yangibana Rare Earths Project CONCEPTUAL PROCESSING ROUTE





Yangibana Project : PFS Water Resources, Environmental & Native Title





- Water Resources: The Company has identified sources of water of potable quality from within existing Mining Leases sufficient to meet the long term requirements of a one million tonne per annum mining operation.
- Flora and Fauna studies: Consultants have completed with no issues identified
- Native Title: There are no claims over the Yangibana Project

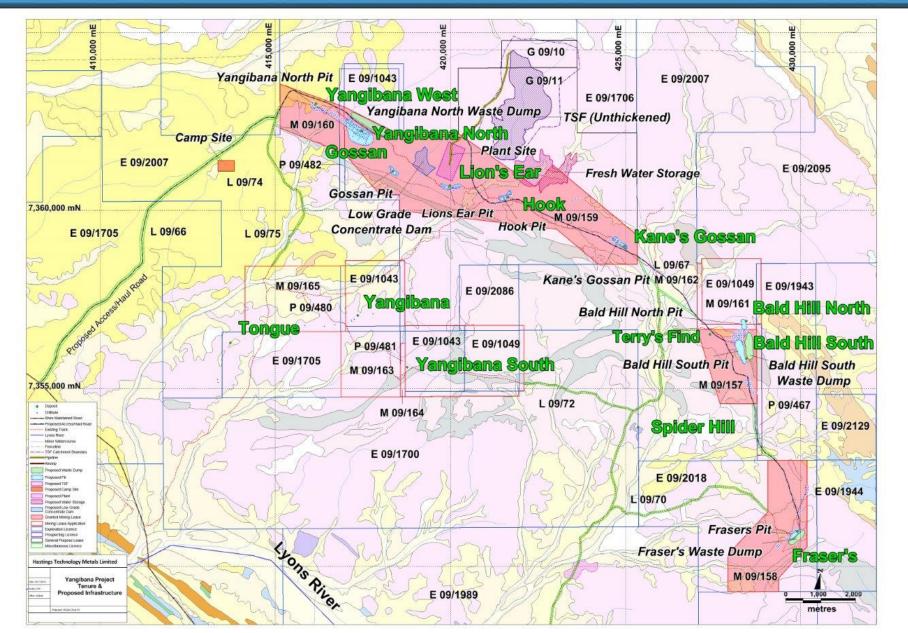


Green Solar Energy Supply to Processing Plant





Yangibana Project : PFS Tenement Holdings



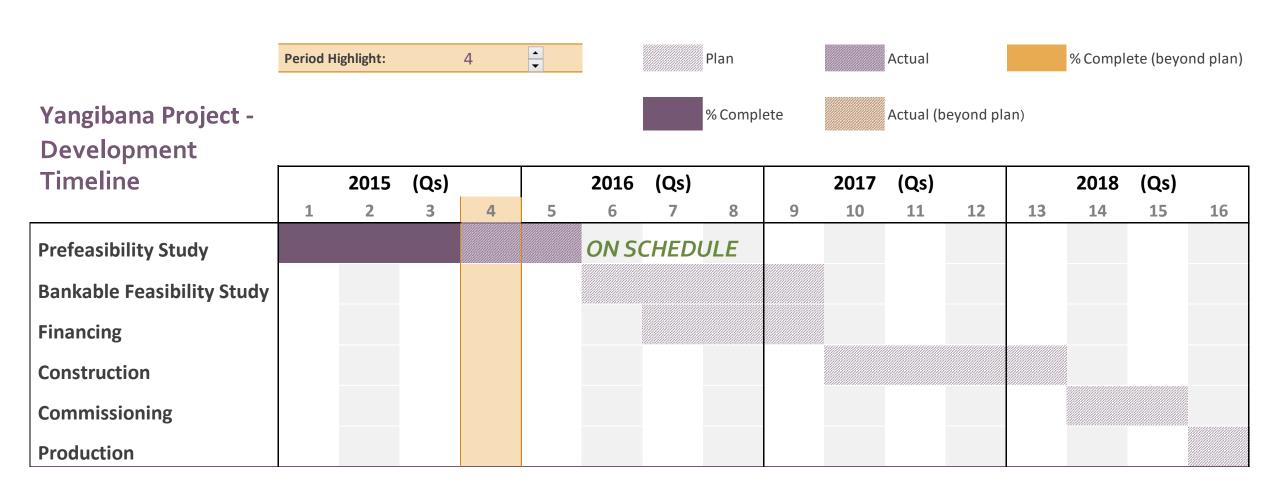
Mining Leases
Granted (shaded in pink) covering all of current JORC
Resources

All applications including Miscellaneous and General Purpose Leases expected to be granted by March 2016

Production now only requires compliance with standard regulatory processes



Yangibana Project - Development Timeline





Yangibana Project - Nov 2015 Scoping Study

Item	Units	Base Case
Plant Throughput	Million tonnes per annum (mtpa)	1.0
Project Life	Years	7.5
Product Value Neodymium	A\$m	2,307
Product Value Praseodymium	A\$m	530
Product Value Dysprosium	A\$m	151
Product Value Europium	A\$m	243
Exchange Rate	AUD:USD	0.75
Capital Cost	A\$m	411
IRR	%	52
NPV at 10% discount rate	A\$m	650-750
Payback after construction completed	Years	1.5



Yangibana Project : Nov 2015 Scoping Study Capital Costs

Category	Cost A\$m
Geology and Mining	9
Processing Plant	154
Project Services	10
Accommodation Camp	20
Infrastructure	28
Management/Services	62
Pre-Production Costs	12
Contingency (40%)	116
Total Capital Costs	411



Yangibana Project : Nov 2015 Scoping Study Operating Costs

Per Tonne Run of Mine*	Cost A\$m
Net Revenue	468
Operating cost	205
Net Profit	263

^{*} That is per tonne delivered to Treatment Plant



Yangibana Project - Nov 2015 Scoping Study Extrapolated 15 year Operation Case

Extrapolated Case

- Based on an additional 8 years production of similar material
- Financial evaluation indicates NPV (10% discount rate) of \$900million to \$1.1billion
- Sound expectation of sufficient resources
 - with +4 million tonnes already delineated in Inferred Resources at Bald Hill South, Fraser's, Yangibana West, Yangibana North, Gossan, Lion's Ear, Hook, Kane's Gossan and Bald Hill North
 - Additional targets identified and drilled at Yangibana, Yangibana South and Terry's Find
 - All resources remain open at depth and along strike
 - Major exploration target at greater depth





★ Yangibana



Some End Use of Hastings' Target Rare Earth Oxides





Facts in Perspective



- In 2014 the world wide sales of mobile phones exceeded global population => 7.3B sales
- Est of 0.1g of Nd in each mobile => 730 tons Nd/year

- Wind turbine present one of the most significant potential areas of growth in demand for NdFeB magnets (permanent magnets)
- A 2MW wind turbine contains 340-420kg REE

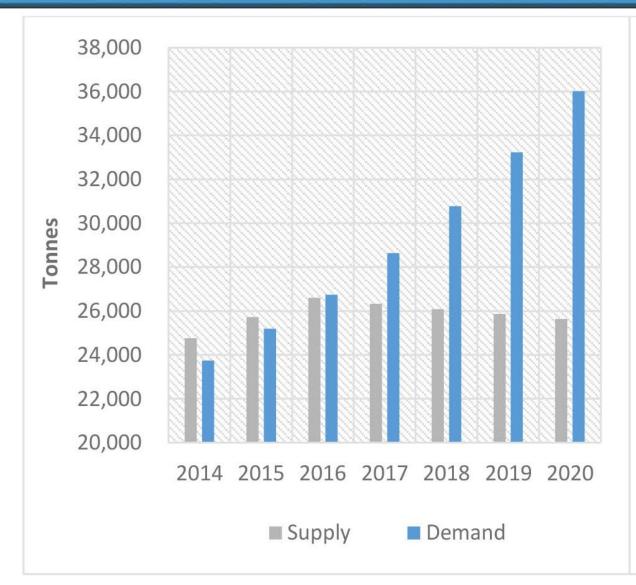


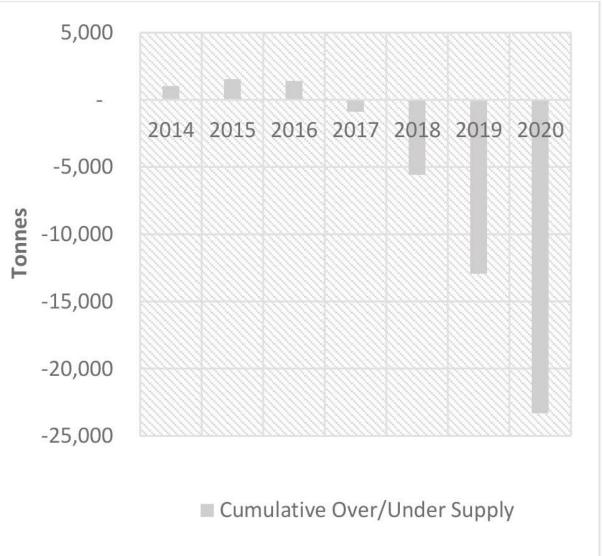


- Each HEV contains about 27kg REE
- In the EU, 117.9% increase in HEV sales for 1Q2015 vs 1Q2014
- Compare this to 36.6% increase in 2014 over 2013



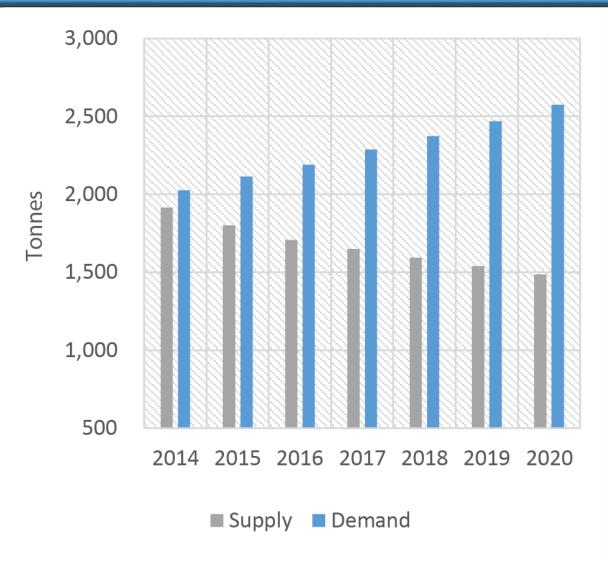
Demand vs Supply - Neodymium Oxide

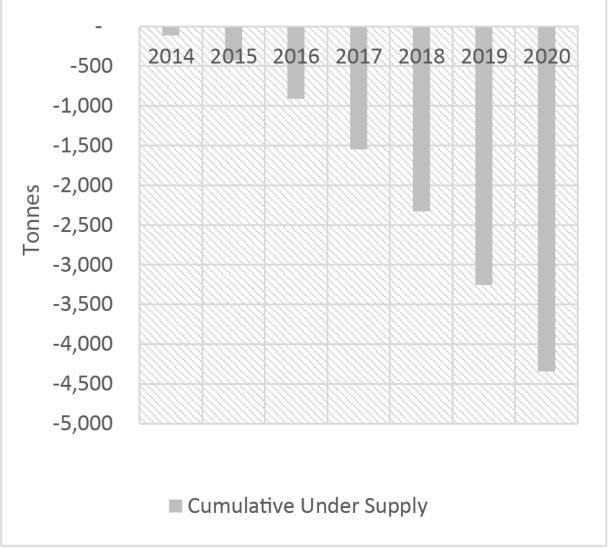






Demand vs Supply - Dysprosium Oxide







What's being said since the VW Emissions Scandal

"Internal combustion engine may have died... This is sort of the end game for internal combustion engines to a degree." - Mike Guy, The Drive Editor

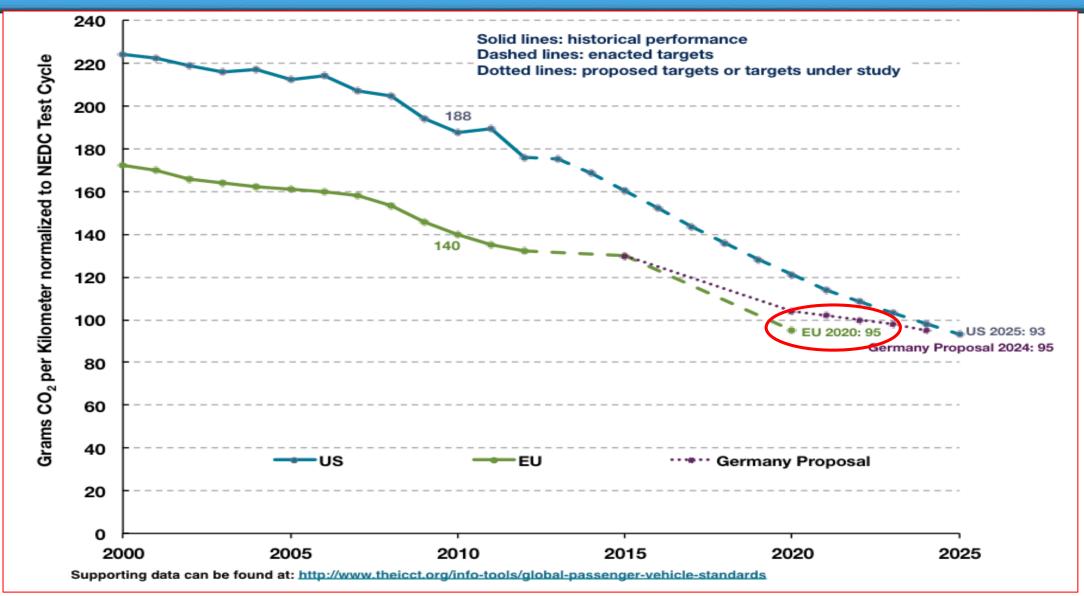
"Risk that diesel manufacturers globally will be tarnished" – Matthew Beasley, Henderson Global Investors.

"The crisis is bad for diesel! The fuel that was encouraged for years as substantially better than petrol when it comes to green house gas emissions is now exposed as potentially worse than thought when it comes to other emissions" – UK Newsnight

"It will probably kill the market in US... This is going to be a bigger issue going forward & we may see a declining diesel sales in Europe as a result of it and the winners will be the petrol hybrid & maybe the electric cars of the future" - David Bailey, Professor of Industry, Aston University

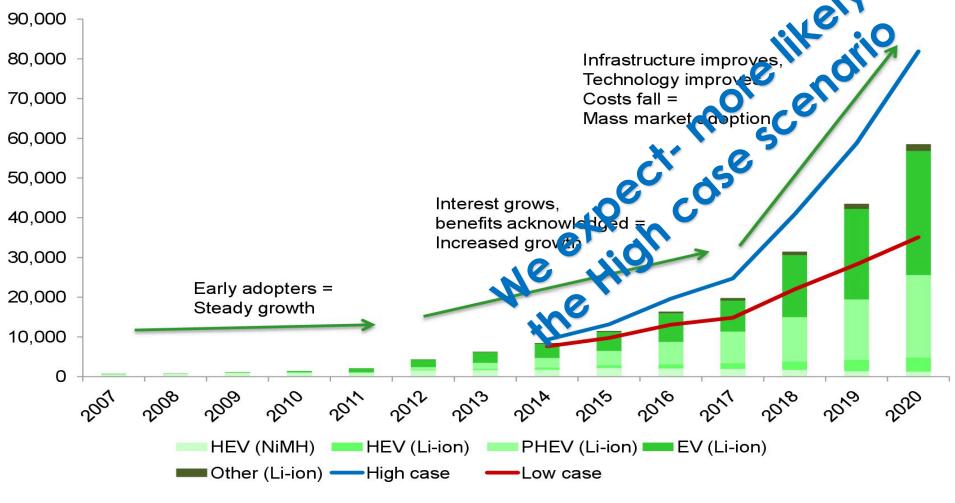


US & European Emission Standards



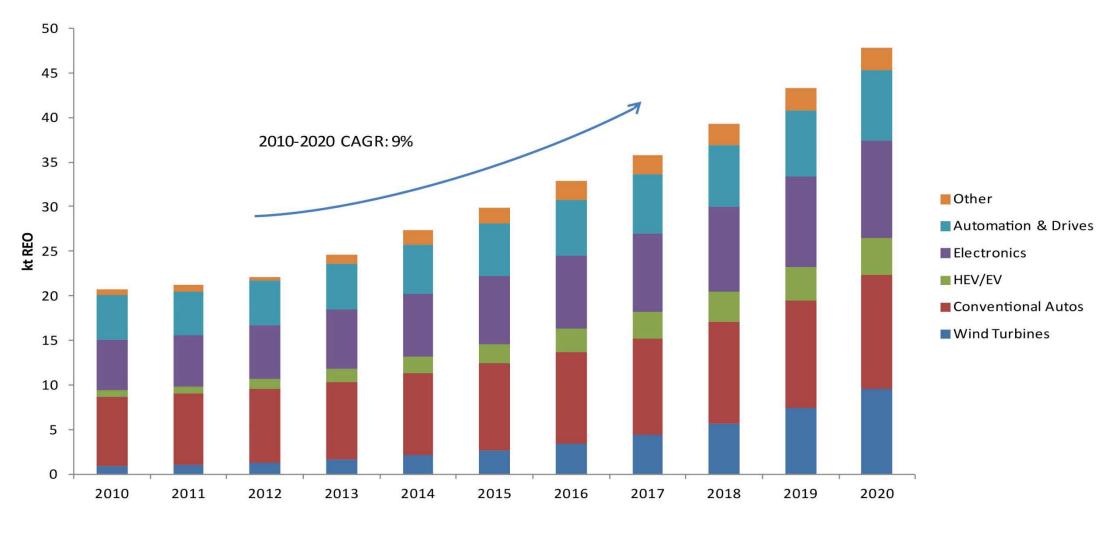


Forecast electric vehicle sales by type, by battery capacity (MWh)





RE market outlook – green technology driving NdPr demand growth



Roskills Intel



Hastings in the Sweet Spot

- Carbon emissions targets imposed by EU & US governments effective 2020
- Green technology driving NdPr demand growth

United Nations' "COP21" climate summit in Paris (Dec 2015) - likely to be a landmark event that starts to shut the door on parts of the fossil industry. "It is a non-exchangeable, one way ticket to a low carbon economy".

China is fully on board – will introduce its own emissions trading scheme in 2017

- VW scandal ramifications to the fate of the internal combustion engines
- APPLE to ship electric cars by 2019

"The impact on electric vehicles is significant. If the world's most valuable company were to make a car, we strongly believe it will be an all electric, battery-powered vehicle. Having a company with Apple's resources and technical expertise throw its weight behind EVs could accelerate development and consumer adoption." WSJ



Investment Case

- 1. High grade, neodymium rich beneficiated concentrate
- 2. Low cost, simple flotation via open pit mining
- 3. Granted Mining leases free of Native title claims
- 4. NPV₁₀ A\$650 750m (7 years), IRR 52% with payback of 1.5 years
- 5. Australia: availability of skilled services; & AAA sovereign risk rating
- 6. An unstoppable clean & green revolution



THANK YOU



HASTINGS Technology Metals Limited

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