

HASTINGS TECHNOLOGY METALS LTD

(ASX Listed Stock Code: HAS)

Future Supplier of Rare Earths to Permanent Magnet Industry



* Brockman

★ Yangibana

121MING INVESTMENT 29-30 MARCH 2017 HONG KONG SPRING GRAND HYATT HOTEL



Disclaimer

All currency amounts are in AS unless stated otherwise.

Disclaimer

This presentation has been prepared by Hastings Technology Metals Limited ("Company"). It does not purport to contain all the information that a prospective investor may require in connection with any potential investment in the Company. You should not treat the contents of this presentation, or any information provided in connection with it, as financial advice, financial product advice or advice relating to legal, taxation or investment matters.

This presentation is provided expressly on the basis that you will carry out your own independent inquiries into the matters contained in the presentation and make your own independent decisions about the affairs, financial position or prospects of the Company. The Company reserves the right to update, amend or supplement the information at any time in its absolute discretion (without incurring any obligation to do so).

Neither the Company, nor its related bodies corporate, officers, their advisers, agents and employees accept any responsibility or liability to any person or entity as to the accuracy, completeness or reasonableness of the information, statements, opinions or matters (express or implied) arising out of, contained in or derived from this presentation or provided in connection with it, or any omission from this presentation, nor as to the attainability of any estimates, forecasts or projections set out in this presentation. Pursuant to the general law (whether for negligence, under statute or otherwise), or any Australian legislation or any other jurisdiction. Any such responsibility or liability is, to the maximum extent permitted by law, expressly disclaimed and excluded. 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 the Company.

Future matters

This presentation contains reference to certain intentions, expectations, future plans, strategy and prospects of the Company. Those intentions, expectations, future plans, strategy and prospects may or may not be achieved. They are based on certain assumptions, which may not be met or on which views may differ and may be affected by known and unknown risks. The performance and operations of the Company may be influenced by a number of factors, many of which are outside the control of the Company. No representation or warranty, express or implied, is made by the Company, or any of its directors, officers, employees, advisers or agents that any intentions, expectations or plans will be achieved either totally or partially or that any particular rate of return will be achieved.

Given the risks and uncertainties that may cause the Company's actual future results, performance or achievements to be materially different from those expected, planned or intended, recipients should not place undue reliance on these intentions, expectations, future plans, strategy and prospects. The Company does not warrant or represent that the actual results, performance or achievements will be as expected, planned or intended.

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 Lynn Widenbar. Lynn Widenbar is a consultant to the Company and a member of the
- Australasian Institute of Mining and Metalluray. 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 Metalluray.
- 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.

US disclosure

This document does not constitute any part of any offer to sell, or the solicitation of an offer to buy, any securities in the United States or to, or for the account or benefit of any "US person" as defined in Regulation S under the US Securities Act of 1993 ("Securities Act"). The Company's shares have not been, and will not be, registered under the Securities Act or the securities laws of any state or other jurisdiction of the United States, and may not be offered or sold in the United States or to any US person without being so registered or pursuant to an exemption from registration including an exemption for qualified institutional buyers.



Overview of Hastings Technology Metals

- Hastings Technology Metals from its Yangibana tenement located in the Gascoyne, WA, is developing a mine to produce Neodymium (Nd), Praseodymium (Pr) and other Rare Farth Oxides.
- Nd and Pr are the critical elements in next-generation technologies e.g. wind turbines, electric motors, CFC-free refrigeration, robotics, optics, military, etc.
- Australian production is a reliable & sustainable alternative source for RE outside of China.
- To complete DFS by mid 2017 and then to secure financing prior to commencement of mine construction in 2018 and production by 2H 2019







The Hastings Team



Experienced Board & Management



Charles Lew

Executive Chairman

- · Private investor and entrepreneur
- MD of ABN Amro Investment Bank Singapore 1997 - 2000
- Independent Director of RHB Banking Group 2004 - 2016
- 30+ years experience in investment banking



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



Jean Claude Steinmetz

Non Executive Director

- Previously Chief Operating Officer for Lynas Corporation
- 25+ years Involved in the chemical industry with a strong focus on the automotive industry
- Chairman of the Auto Plastic and Innovative Materials Committee of Sino-EU Chemical Manufacturers Association



Management Team



Charles TanChief Operating Officer

- 20+ years in Commercial, Procurement, Outsourcing & Supply Chain Management with MNCs
- Mineral sands & aluminium mining



Guy Robertson

Chief Financial Officer & Company Secretary

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



Andy Border

General Manager Exploration

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



Aris Stamoulis

Director Corporate Finance

- 20+ years experience in banking & finance
- Worked for Deutsche Bank and Morgan Stanley in various roles in London, Singapore and Hong Kong.
- Responsible for Hastings Corp Finance & Investor Relations.



Specialised Technical Team



Dr Kwan Wong

KYSPYmet Mineral Processing Consultants Flotation Specialist

- · 50+ years practicing metallurgist
- Possesses extensive flotation treatment experience in rare earth oxide ores
- Consulting activities in evaluating flotation test work, plant performance & commissioning; pilot plant test programme design and execution
- · Specialist speaker in flotation workshops.
- Worked on 9 REO oxide development projects covering Australian & International deposits.



Narelle Marriott

Principal Engineer - Beneficiation

- 14+ years experience in the minerals processing and mining industry
- Experienced in process and flowsheet development for beneficiation plants
- Worked on 5 pilot plant operations in comminution and flotation of nickel and RE ores
- · Nickel, copper, uranium, iron ore and RE industries



Robin Zhang

Process Engineering Manager

- 20+ years experience in R&D, project engineering, plant commissioning & running of operations in RE industry
- 8 years at Lynas Corporation, Senior Technical Services Manager & Senior Project Development Manager
- 11 years with Gansu Rare Earth Group one of the largest rare earth companies in China - Deputy Director of Technical Centre.



Domenic Furfaro

Metallurgy Manager

- 20+ years experience in the mining industry
- Hydrometallurgical experience in a range of metals including REs, uranium, nickel and cobalt
- Experienced in hydrometallurgical process and flowsheet development
- Managed hydrometallurgical programs in the development of Kvanefield RE project from proof of concept through to feasibility study
- Project Director, ex-Lynas been engaged and expected to commence work at Hastings on 1 May. Responsible for construction of beneficiation and hydromet production plants at Yangibana.



Yangibana

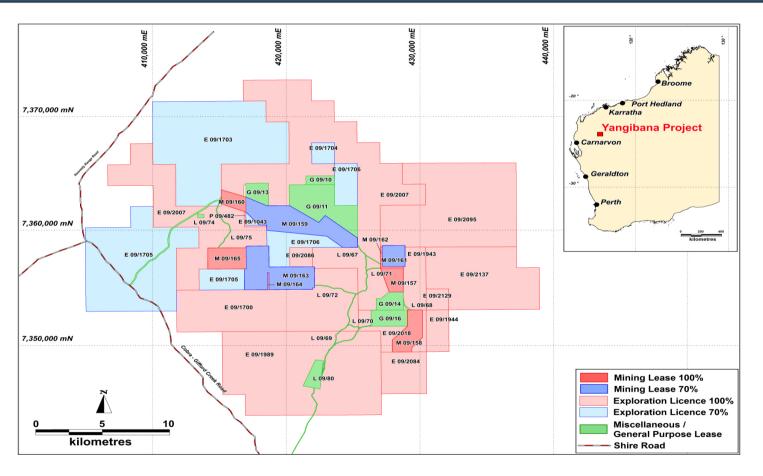


Yangibana: Located in Central Western Australia





Yangibana: Mining Leases Granted



Mining Leases Granted (shaded in red & blue) with tenure of 20 years and no Native Title claims covering 90% of JORC Resource area measuring only ~50sqkm out of 650sqkm

Miscellaneous and General Purpose Leases granted

Application to authorities for permit to commence mine construction and production plant

Pioneering work permit approved



Yangibana: JORC resource update 2017

Total Yangibana JORC Resources

Category	Tonnes	Nd ₂ O ₃ +Pr ₂ O ₃	TREO	Nd ₂ O ₃	Pr ₂ O ₃
		%	%	ppm	Ppm
Measured	2,155,000	0.42	1.01	3,410	770
Indicated	5,446,000	0.41	1.30	3,260	870
Inferred	5,807,000	0.36	1.12	2,820	770
TOTAL	13,408,000	0.39	1.18	3,100	810

Hastings 100% owned ground JORC Resources

Category	Tonnes	Nd ₂ O ₃ +Pr ₂ O ₃	TREO	Nd ₂ O ₃	Pr ₂ O ₃
		%	%	ppm	Ppm
Measured	2,155,000	0.42	1.01	3,410	770
Indicated	3,221,000	0.41	1.13	3,300	820
Inferred	3,416,000	0.36	0.98	2,890	740
TOTAL	8,792,000	0.39	1.04	3,200	780

Hastings 70% owned ground JORC Resources

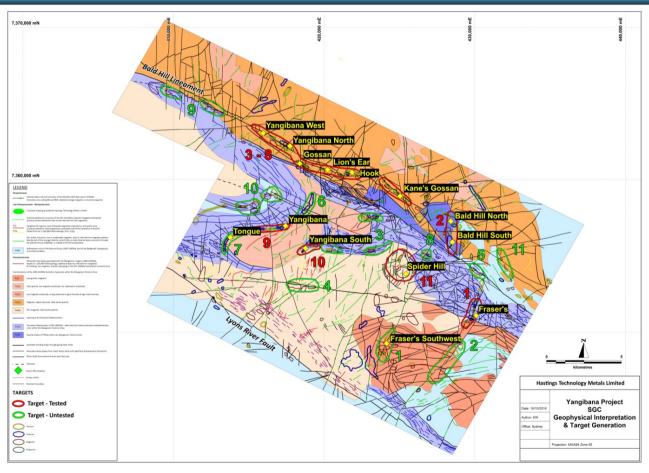
Category	Tonnes	Nd ₂ O ₃ +Pr ₂ O ₃	TREO	Nd_2O_3	Pr ₂ O ₃
		%	%	ppm	Ppm
Indicated	2,225,000	0.42	1.55	3,200	940
Inferred	2,391,000	0.35	1.32	2,730	810
TOTAL	4,616,000	0.38	1.43	2,960	870

Source: Hastings ASX release 17 Jan 2017

- Jan 2017 updated Resource estimate which includes first Measured Resource amount;
- $Nd_2O_3 + Pr_2O_3$ % of TREO average of 33%, as high as 43% in Eastern Belt
- New estimates represent 19% increase in TREO and a 22% increase on $Nd_2O_3 + Pr_2O_3$ % on prior estimates from Oct 2015;
- Current JORC resource approaching 15 years of mine life;
- Resources contained on Hastings 100% owned ground and smaller portion on 70% JV ground.



Recent Airborne Surveys and Drilling Results – ASX Releases*



- Infill drilling at Fraser's return very encouraging intersections (6 Oct)
- Airborne survey identified additional 22 priority areas of significant exploration interest (18 Oct)
- Fraser's Southwest Deposit drill results with grades as high as 2.00% TREO (25 Oct)
- Auer North Deposit drill results with grades as high as 2.08% TREO (21 Nov)
- Approximate %Nd-Pr as %TREO is 37% at Auer and 35% at Auer North (21 Nov)



Yangibana: Open Pit Mining on Flat Terrain

- 4 key rare earths: (1) Neodymium Nd; (2) Praseodymium Pr; (3) Dysprosium Dy and (4) Terbium - Tb
- Nd & Pr account for approx. 83% of in-ground value
- Two significant aquifers in mineralised ground





The Market for Rare Earths and Permanent Magnets



Some End Uses for Magnets' Rare Earth



Focus on production of rare earths for permanent magnet industry; i.e.. Nd, Pr and Dy due to strong future demand for Electric Vehicles, wind turbines, domestic appliances, industrial robotics, digital devices, etc.



Rare Earth Used in a Mobile Phone

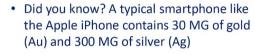
Rare earth elements (REEs) in electronic products



- Yttrium (Y)
- Lanthanum (La)
- Praseodymium (Pr)
- Europium (Eu)
- Gadolinium (Gd)
- Terbium (Tb)
- Dysprosium (Dy)

PHONE CIRCUITRY

- Lanthanum (La)
- Praseodymium (Pr)
- Neodymium (Nd)
- Europium (Eu)
- Gadolinium (Gd)



- Over US\$2.5bn worth of gold and silver found in smartphones shipped annually
- 8-9 rare earth elements (REEs) go into every iPhone (for coloured screen, phone circuitry, speakers, and vibration unit)

SPEAKERS

- Praseodymium (Pr)
- Neodymium (Nd)
- Gadolinium (Gd)
- Dysprosium (Dy)

VIBRATION UNIT

- Neodymium (Nd)
- Terbium (Tb)
- Dysprosium (Dy)

Source: Apple, Venturebeat.com

Ø 🔼 🞵



Facts in Perspective



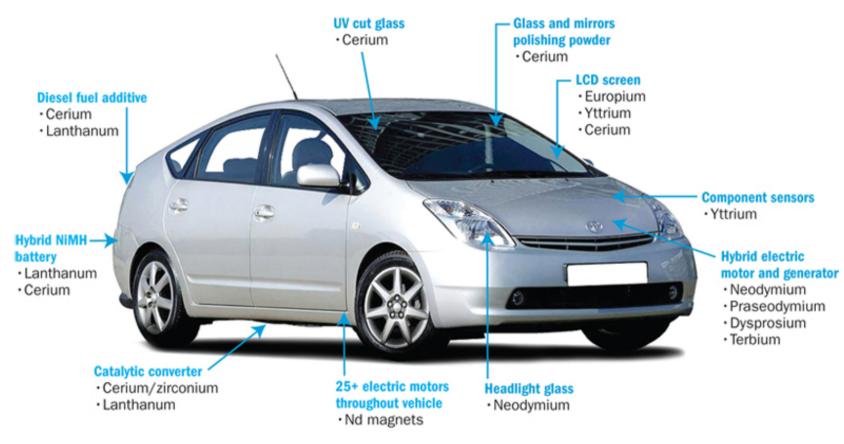
- World wide sales of mobile phones by 2014 ~7.3B sales
- Approx. 0.1g of Nd/Pr per phone => 730 tonnes per annum
- Renewable Energy wind turbine adds to demand for NdFeB magnets (permanent magnets)
- Each 2MW wind turbine contains 340-420kg REE



- Each HEV contains about 2.7kg REE
- EU 118% increase in HEV sales in 1Q2015 vs 1Q2014 (2013: 37% increase)

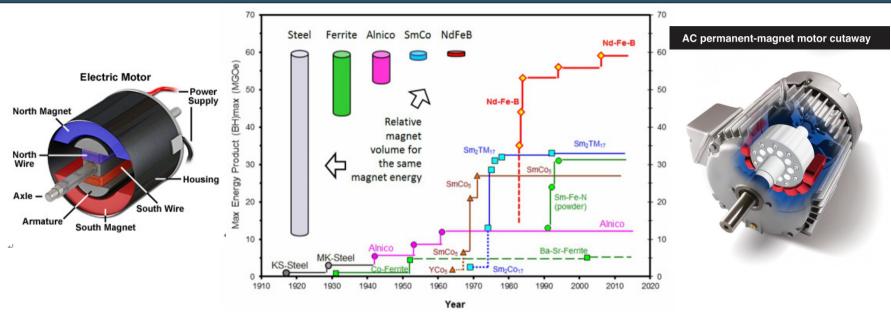


Rare Earth Metals in an Electric Vehicle





NdFeB Permanent Magnets in comparison

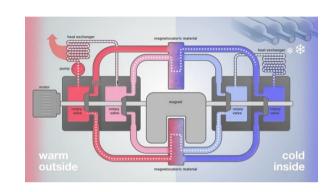


- NdFeB (Neodymium, Iron, Boron Magnet) strongest permanent magnet commercially available
- ~10 times more powerful, and 3 times lighter than traditional ferrite magnet → Superior performance, miniaturisation, compact, lightweight and more efficient
- Synchronous PM Drive Motors used in HEV and EV. Advantages → Extremely high torque, compact, lightweight and very efficient.



New Technologies using Permanent Magnets

- PVC stabilizers Protect PVC from thermal degradation and exposure to heat and UV rays (Mostly La & Ce). Additional demand 14,000 tonnes by 2025.
- Magneto caloric Refrigeration 30% to 50% more energy efficient, zero CFC usage. (Mostly Nd-Pr & Gd). Additional demand 6,300 tonnes by 2025.
- Industrial Robots Chinese robotic usage to increase.
 Approx. 20 kg of NdFeB per Industrial Robot. (Mostly Nd-Pr). Additional demand 10,000 tonnes by 2025.

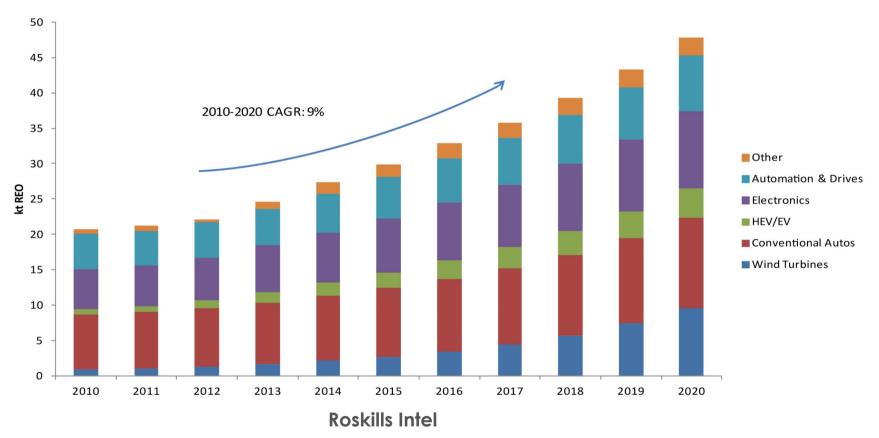




Source: Adamas Intelligence – Emerging Applications of REEs – The Next 10 Years.

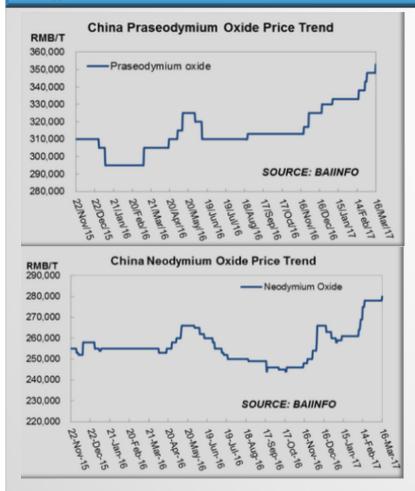


RE market outlook – green technology driving Nd/Pr demand growth





Recovery in Rare Earths Prices in 2017



- Rare Earths prices have improved in 2017, both onshore China and in international markets
- China F.o.B. prices for Nd +16.8%
 YTD
- China F.o.B. prices for Pr +13.4%
 YTD
- Even La and Ce prices recovered,
 +8.6% & +11.7% respectively
- Stringent crackdown in China on illegal mining

Source: Baiinfo Rare Earth Weekly, Mar 16, 2017



The Yangibana Advantage



Exceptional High Content Nd and Pr

Comparison of REO Distribution & Basket Value Between Hastings and Major Light RE Producers

DE Ovido/TDEO	l lmi4	Heatings	Ch	ina	Outside	of China
RE Oxide/TREO	Unit	Hastings	Producer 1	Producer 2	Producer 1	Producer 2
Lanthanum	%	9.99	25.94	36.50	25.16	33.22
Cerium	%	39.59	50.69	47.90	46.36	49.10
Praseodymium	%	8.01	5.15	4.10	5.38	4.30
Neodymium	%	33.80	15.90	10.00	18.79	12.00
Samarium	%	3.88	1.21	0.70	2.27	0.80
Europium	%	0.84	0.22	0.08	0.47	0.12
Gadolinium	%	1.80	0.39	0.23	0.85	0.17
Terbium	%	0.15	0.05	0.04	0.06	0.04
Dysprosium	%	0.50	0.11	0.06	0.16	0.07
Yttrium	%	1.14	0.25	0.31	0.45	0.10
Other	%	0.29	0.10	0.08	0.05	0.09
Economic Value Factor		1.94	1.00	0.72	1.16	0.81

Note: The above REO distribution (Total RE Oxide/TREO) is based on RE Oxides content in beneficiated RE concentrate. The Value factor is calculated based on the value of normalized TREO with current prices for each single RE Oxide.

- Yangibana's Rare Earths distribution is the best light rare earths deposit rich in:
 - Neodymium (Nd)
 - Praseodymium (Pr)
- Value for each unit of Yangibana RE concentrate is 67% to 270% greater than some major light RE producers in the world
- Basket Price for China Producer 1 ~ USD12/kg



Estimated OPEX – work in progress

Assumes 2 nd year of production and 8,500 tonnes	TREO
	<u>AUD m</u>
Mining Costs – based on 1m tons p.a. mined	31.5
Reagents - Beneficiation	16.8
Reagents - Hydromet	21.7
General Operating Costs - Fixed	18.9
General Operating Costs - Variable	19.0
Product Transportation	4.4
Toll Treatment	22.7
Royalties (2.5% of revenue)	5.7
Depreciation (15y life on AUD 250 m)	16.7
Interest Expense (Snr Loan and Working Capital)	20.3
Total Annual OPEX estimate	177.7

- OPEX refinement underway as part of DFS*
- Mining costs from Snowdens estimates
- Reagent costs from current recoveries and consumption
- CAPEX estimate of AUD 350m and simple capital structure of 70/30 Debt/Equity
- All in cost of <u>AUD 21/kg = USD16/kg</u> producing 8,500 t.p.a. separated REO @ AUD/USD = 0.75

^{*} Based on refinements underway since release of PFS (March 2016) – numbers are not finalized and form part of ongoing DFS process.



CAPEX (WIP) – Procurement/Sourcing Strategy

Direct CAPEX: estimate ~A\$246m

- 1. Global sourcing of major capital equipment results in average savings of 25% to 30% compared to PFS.
 - Mills/Crushers/Screens
 - Sulphuric Acid Plant
 - Rotary Kilns
 - Lime Slaking
- 2. Utilising foreign equipment manufacturers that have worked with Australian mining contractors

Indirect CAPEX: estimate ~A\$104m

- 1. Commodities downturn has resulted in 10-20% lower cost of professional services.
 - intense competition between 1st and 2nd tier suppliers
 - willingness to deliver at cost
 - reduction in costs of support services/material/labour

^{*} Based on refinements underway since release of PFS (March 2016). Numbers are not finalized and form part of ongoing DFS process.



Rationale for Yangibana's competitive advantage

Yangibana's profitability is due to:

- Highest basket price due to high Nd-Pr content in ore body
- High recovery rates of RE Oxides: +70% relative to TREO in the ground
- Experienced Management Team ex-Lynas with good experience and know how in RE production process and plant engineering and construction
- Domain knowledge helps reduce CAPEX and OPEX with optimized and improved engineering design, including:
 - Higher reliability of equipment with lower maintenance cost;
 - o Higher overall Equipment efficiency and lower Equipment down-time;
 - Higher TREO recovery rates;
- Significant CAPEX reduction by outsourcing separation and refining to overseas (toll treatment).



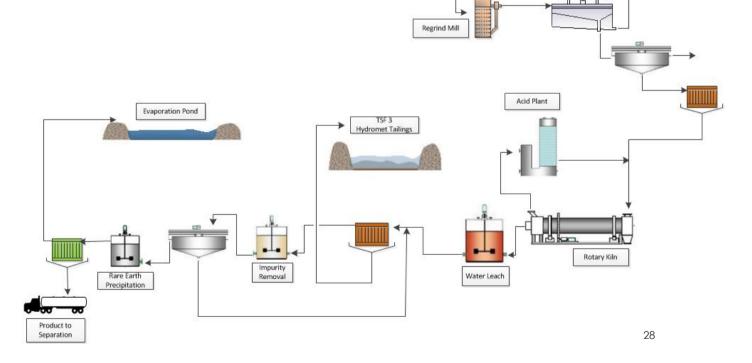
Process Flow

Mill

Crusher



Hydrometallurgy



Flotation

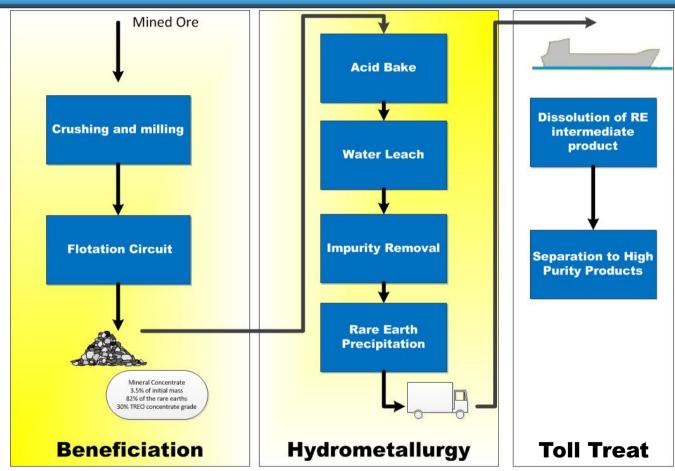
Conditioning

TFS 1 Flotation Tailings

Cleaner Flotation TFS 2 Flotation Tailings



Yangibana: Toll Treatment Route





Yangibana: Mine and Production Development Plan

The path to production in 2019:

		FY15				FY	16		FY17				FY18				FY19				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q
	Pre- Feasibility Study	Com	pleted																		
	Definitive Feasibility Study						In Progress														
	Production Plan Evaluation						In Prog	gress													
	Pilot Plant - Beneficiation								Comp	leted											
	Pilot Plant - Hydrometallurgy								In Progress												
e S	Mining Application/Approval						In Prog	gress													
ğ	Financing							In Pro	gress												
7	Customer Lols, MoUs, Offtakes									In Prog	gress										
	Design								Prelim	Desig	า	Detail	ed Des	ign							
	Procurement								In Pro	gress											
	Construction													Plant	Const	ruction)	·	·		
	Commissioning *																Track	1*	Track	2*	
	Production																			Target	ŀ

^{*}Track 1 = Beneficiation Process Plant

^{*}Track 2 = Hydromet Process Plant



Completed Beneficiation Piloting – March 2017



Flotation Pilot Plant Operation at ALS Metallurgy, Perth



Final Flotation Concentrate

- Successful completion of pilot plant testing validating simple and effective Yangibana flotation process.
- Piloting confirmed 70% TREO recovery and concentrate grade of 23% TREO.
- Ongoing improvement to optimize floatation circuit chemistry with expectation to improve recovery to >80% at a higher TREO grade.
- Successful samples for engineering equipment design test-work.
- Piloting generated concentrate for next stage of the Hydrometallurgy pilot plant test. Commenced mid March through to end April 2017.



Milestones to Completion of DFS

 Beneficiation Pilot Plant Test Completed 	Feb 2017
 HydroMet Pilot Plant Test Work 	Mar/Apr
 Mining Proposal/Mine Rehab Plan Submission 	March
 Production Process Optimization 	April
 Prelim Plant Engineering Specification 	May/June
 DFS Document Release to Public 	3Q 2017
 Project Finance 	4Q2017
 Commence Mine and Plant Construction 	1Q 2018



DFS - Production Concept - reducing size of plant

- Initial plan to mine 1m tons p.a, Capex is AUD350m and Opex is AUD175m. However;.....
- DFS optimization process analyze smaller production plant of 700,000 tons p.a mined = TREO 5,500 tons;
- Capex reduced to ~AUD250m & Opex to ~AUD120m
- Current basket price @ AUD31/kg, Sales = AUD170m p.a; but Projected 2020 – 2025 REO price, Y basket price = AUD40/kg
- Projected "all in" production cost of ~AUD18 20/kg
- Extension of Mine life Measured & Indicated Resource to +10 years and +15 years including Inferred Resource;
- Lower risk due to smaller CAPEX and lower annual OPEX.





Hastings Technology Metals Equity Statistics



Equity Funds Raised (NO DEBT)

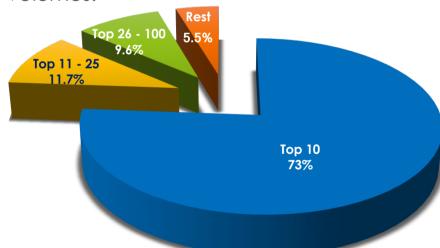
HAS:AU - Share Price Performance

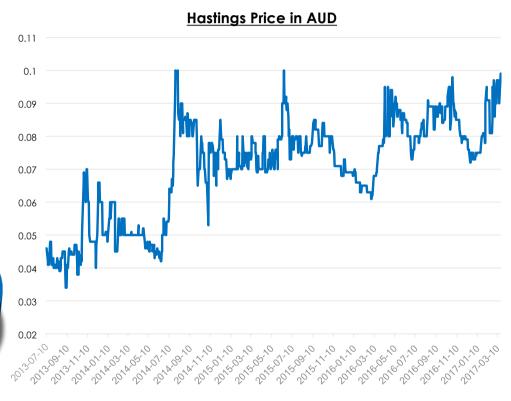
0.12	May 2014: Underwritten Rights Issue at 3.8c (Fund drilling program at Yangibana)	A\$2.8m				
0.1	Jan 2015: Underwritten Share Placement @ 7c per share	A\$6.5m				
0.08	Jan 2015: Underwritten Share Purchase Plan @ 7c per share	A\$2.0m_				
	Apr 2016: Share Placement at 10c per share = 25% premium to	A\$9.6m				
0.06	market price (Fund DFS)					
0.04	Nov 2016: Share Placement at 11c per share = 20% premium to market price (Fund Process Optimisation)	A\$2.9m				
0.02	Total Funds Raised since May 2014	<u>A\$23.8m</u>				
	Cash at Bank 30 Dec 2016 (ASX release 30-Jan-17)	<u>A\$9.8m</u>				
O 23-Sep-13	23-0ct-13 - 23-Nov-13 - 23-Jan-14 - 23-Jan-14 - 23-Jan-14 - 23-Jan-14 - 23-Jan-14 - 23-Jan-15 - 23-Jan-15 - 23-May-15 - 23-May-15 - 23-May-15 - 23-May-15 - 23-Jun-15 - 23-Jun-16 - 23-Jun-16 - 23-Jan-16 - 23-Jan-16 - 23-Jan-16 - 23-Jan-16 -	23-Apr-16 - 23-May-16 - 23-Jun-16 - 23-Jul-16 - 23-Aug-16 - 23-Sep-16 - 23-Sep				



HAS – Current Shareholding Distribution

- YTD Performance +35.6%
- 2017 increase in Total Shareholders by 29%
- Top 100 shareholders control 94% of shares with top 10 controlling 73%.
- Future Equity capital raise to partially fund CAPEX will help increase daily trading volumes.





Distribution of Shareholders by % shares controlled



Summary

- Strong growth in demand for Permanent Magnets
- Yangibana's high basket price compared to most
- Management's ability to execute its business plan and control costs from start
- Granted Mining Leases free of Native title claims over 90% of JORC resource
- Non-China sustainable source of supply



THANK YOU Q&A