

Future Producer of Neodymium & Praseodymium to the Permanent Magnet Industry



Investor Presentation
March 2018



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

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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.

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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 Lynn Widenbar. Mr Widenbar 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 announcement and DFS 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 consent to the inclusion in this announcement and DFS of the matters based on his information in the form and context in which it appears.

The information in this presentation that relates to the Fraser's and Bald Hill Ore Reserve is based on information reviewed or work undertaken by Mr Frank Blanchfield, FAusIMM, and an employee of Snowden Mining Industry Consultants. Mr Blanchfield has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the preparation of mining studies to qualify as a Competent Person as defined by the JORC Code 2012. Mr Blanchfield consents to the inclusion in this announcement and DFS of the matters based on his information in the form and context in which it appears.

The scientific and technical information in this presentation that relates to process metallurgy is based on information reviewed by Mr Dale Harrison MAusIMM, who is a metallurgical consultant and employee of Wave International. Mr Harrison has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined by the JORC Code 2012. Mr Harrison consents to the inclusion in this announcement and DFS of the matters based on his information in the form and context in which it appears.

US disclosure

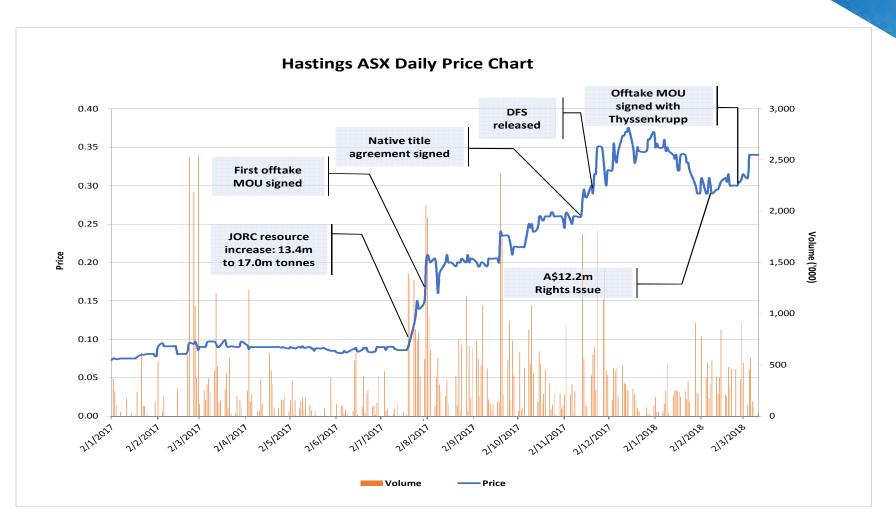
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Hastings Equity Statistics



Steady growth in market cap since Jan 2014

- Market Cap ~ A\$ 240m
- ~ 1200 Shareholders
 +55% in 2017
- Top 10 shareholders owns
 ~ 70%
- **A\$ 59m** raised since 2014
- Cash: A\$25m post rights issue
- No Debt



Definitive Feasibility Study (DFS) - Yangibana



Independent Study by Wave International and Snowden

- JORC resource of 21m tonnes supports an initial 8 years mine life on 100% held ground
- Maiden JORC Probable Ore Reserves of 5.15 million tonnes on 100% owned ground
- Highest known Neodymium & Praseodymium (Nd-Pr) content at 41% of TREO
- Mining 1m tonnes pa to produce up to 15,000 tpa of Mixed Rare Earths Carbonate
- Nd-Pr metallurgical recovery 75.6% achieved in pilot test plant
- Financial Highlights:
 - NPV (after tax) = A\$466m at 8% discount rate
 - IRR = 78%
 - EBITDA payback of 2.3 years from average equity drawdown period
 - Pre-production CAPEX A\$335m; OPEX A\$17.06/kg TREO (US\$12.8/kg)
- Significant scope to expand production and mine life beyond 8 years

^{*} The underlying assumptions and production targets have not changed from the date of release of the DFS on 28 November 2017

Yangibana Region





 Gascoyne Junction – good support from local community for mining at Yangibana

 Gifford Creek Airstrip – FIFO HARRA services

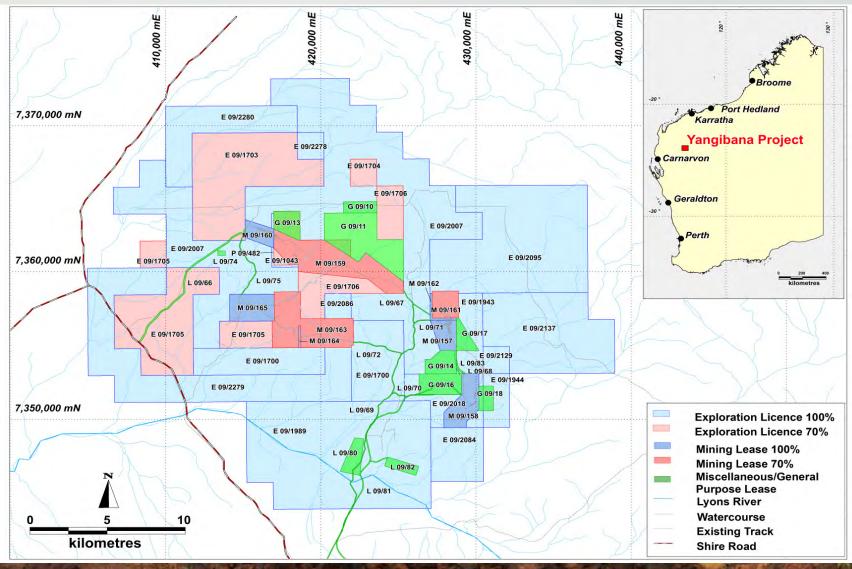
Carnarvon – high unemployment hence availability of casual labour

 Geraldton, Onslow or Exmouth – ongoing economic assessment for inbound and outbound freight

Yangibana – Western Australia



AAA Sovereign Rating, Established Mining Region Outcrops and level terrain, easy to mine



- Total Yangibana area ~ 650 km²
- 21 years Mining Leases
 Granted since March 2016
 ~ 50 km²
- Native Title Agreement signed November 2017 covering all tenements
- Various Miscellaneous and General Purpose Leases granted supporting infrastructure
- Application lodged for permits to commence mine construction

JORC Resources



High Neodymium and Praseodymium content

- Total Measured, Indicated and Inferred Resources now at 21m tonnes*
- In-ground ratio of Nd-Pr as % of TREO ranges from 34% (0.40%/1.18%) to as high as 57% locally at Simon's Find deposit
- Most resources contained on Hastings 100% owned ground and smaller portion on 70% JV ground

Total Yangibana JORC Resources (rounded)

| Category | Tonnes | Nd ₂ O ₃ +Pr ₆ O ₁₁ | TREO | Nd_2O_3 | Pr ₆ O ₁₁ |
|-----------|------------|---|------|-----------|---------------------------------|
| | | % | % | ppm | ppm |
| Measured | 3,900,000 | 0.42 | 1.19 | 3,372 | 851 |
| Indicated | 8,600,000 | 0.42 | 1.25 | 3,368 | 858 |
| Inferred | 8,400,000 | 0.36 | 1.09 | 2,829 | 740 |
| TOTAL | 21,000,000 | 0.40 | 1.17 | 3,152 | 809 |

Hastings 100% owned ground

| Category | Tonnes | Nd ₂ O ₃ +Pr ₆ O ₁₁ | TREO | Nd_2O_3 | Pr ₆ O ₁₁ |
|-----------|------------|---|------|-----------|---------------------------------|
| | | % | % | ppm | ppm |
| Measured | 3,000,000 | 0.42 | 1.06 | 3,404 | 809 |
| Indicated | 6,600,000 | 0.41 | 1.09 | 3,324 | 794 |
| Inferred | 5,800,000 | 0.35 | 0.93 | 2.840 | 684 |
| TOTAL | 15,400,000 | 0.39 | 1.03 | 3,158 | 756 |

Hastings 70% owned JV ground

| Category | Tonnes | Nd ₂ O ₃ +Pr ₆ O ₁₁ | TREO | Nd_2O_3 | Pr ₆ O ₁₁ |
|-----------|-----------|---|------|-----------|---------------------------------|
| | | % | % | ppm | ppm |
| Measured | 900,000 | 0.43 | 1.64 | 3,258 | 997 |
| Indicated | 2,100,000 | 0.46 | 1.76 | 3,507 | 1,061 |
| Inferred | 2,700,000 | 0.37 | 1.42 | 2,806 | 860 |
| TOTAL | 5,600,000 | 0.41 | 1.58 | 3,134 | 955 |

^{*} Hastings ASX release 22 Nov 2017;

Maiden JORC Ore Reserves



High Neodymium and Praseodymium content

JORC Probable Ore Reserves (rounded)

| Deposit | Tonnes | Nd ₂ O ₃ +Pr ₆ O ₁₁ | TREO | Nd ₂ O ₃ | Pr ₆ O ₁₁ |
|-----------|-----------|---|------|--------------------------------|---------------------------------|
| | | % | % | ppm | ppm |
| Bald Hill | 4,380,000 | 0.41 | 1.04 | 3,330 | 783 |
| Fraser's | 780,000 | 0.67 | 1.58 | 5,320 | 1,380 |
| TOTAL | 5,160,000 | 0.45 | 1.12 | 3,630 | 873 |

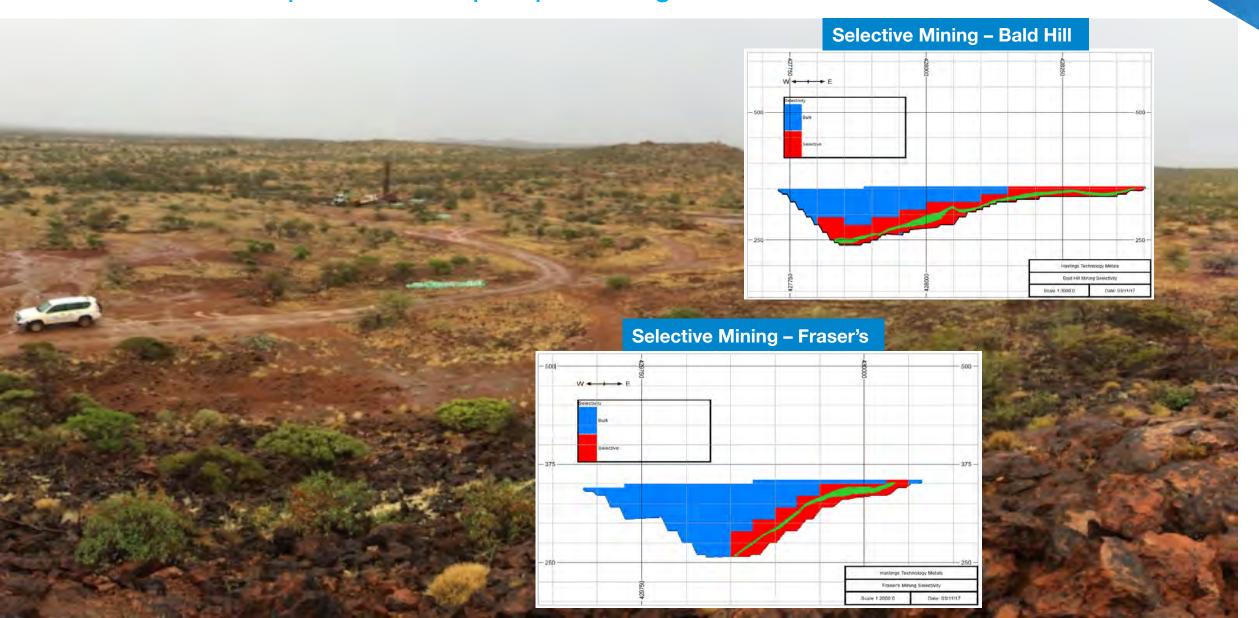
^{*} Hastings ASX release 28 Nov 2017;

- Total Probable Ore Reserve at 5.15m tonnes supporting first 5.5 years of LoM and Additional Production Target for another 2.5 years
- Drilling programme currently in place to upgrade known Resources to Reserves by 2019 to > 10.0 m tonnes.

Favourable Terrain



Mineralised out crops, shallow open pit mining



Native Title Agreement signed





Agreement reached with Thiin-Mah Warriyangka, Tharrkari and Jiwarli

- Signed 9th November 2017
- < 1% royalty based on sales for the LoM
- Applicable to all rare earth and niobium mined
- Provision of jobs and training for the community





Yangibana Advantage – Highest Nd-Pr ratio



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

| RE Oxide/TREO | Linit | Hootings | CI | nina | Outside | e of China |
|-----------------------|-------|----------|--------|---------|---------|---------------|
| RE Oxide/TREO | Unit | Hastings | Baotou | Sichuan | Mt Weld | Mountain Pass |
| 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 | | 1.90 | 1.00 | 0.72 | 1.14 | 0.81 |

- Nd-Pr /TREO composition is validated by customers in the MREC
- Economic Value Factor calculated on individual % of REE in the ore body x REO prices
- Yangibana: high Nd-Pr content of 41%
- Yangibana basket price @ USD30.50/kg (Oct 2017) used in DFS
- 9th Mar 2018 basket price is \$29.20

Basket Price USD/kg

29.20

15.35

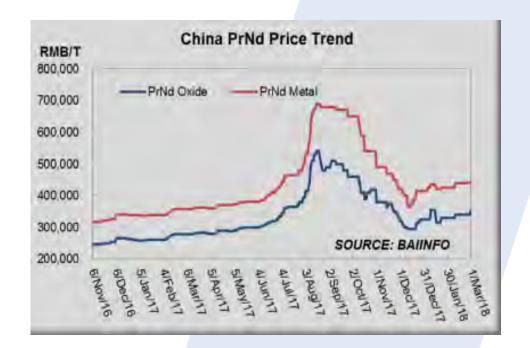
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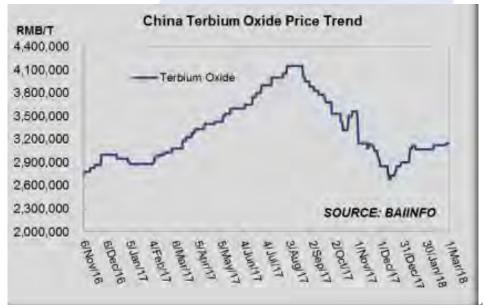
17.45

12.40

Spot Prices of Rare Earth Oxides (Mar 2017)

| China F.o.B. Export prices | s 09-Mar-2018 | 8 (USD/kg) & Y | TD change |
|----------------------------|---------------|----------------|-----------|
| Lanthanum oxide | La2O3 | \$ 2.37 | 1 % |
| Cerium oxide | CeO2 | \$ 2.30 | 0 % |
| Praseodymium oxide | Pr6O11 | \$ 70.50 | +11 % |
| Neodymium oxide | Nd2O3 | \$ 58 | +22 % |
| Dysprosium oxide | Dy2O3 | \$ 190.50 | +9 % |
| Terbium oxide | Tb407 | \$ 517.50 | +22 % |
| Samarium oxide | Sm2O3 | \$ 2.25 | -2 % |
| Europium oxide | Eu2O3 | \$ 59.50 | - 9 % |
| Erbium oxide | Er2O3 | \$ 26 | +2 % |
| Holmium oxide | Ho2O3 | \$ 64.35 | +3 % |
| Lutetium oxide | Lu2O3 | \$ 671.10 | +3 % |
| Yttrium oxide | Y2O3 | \$ 3.35 | 0 % |







Source: ASIAN METAL 09 Mar 2018

The Yangibana Process and Product



From Mining to Mixed Rare Earth Carbonate (MREC)

Successful Beneficiation and Hydrometallurgy pilot plan test-work proves simple and effective production process flow sheet.

1m t.p.a. mined

30 - 40k t.p.a. Beneficiated Concentrate

~15,000 t.p.a. MREC = ~8,500 t.p.a. REO

MINING

- Open pit contract mining @ rate of 1m t.p.a.
- Total JORC Resource ~
 21m tonnes
- In-ground Total Rare Earth Oxides (TREO) Grade ~ 1.17%



* ASX release: 22-Nov-2017

BENEFICIATION

- Upgrade TREO more than 20x from ore to Beneficiated concentrate
- Pilot Plant achieved 23%
 TREO concentrate
- Post-pilot optimisation -26% TREO at 85%



* ASX release: 20-Mar-2017

HYDROMETALLURGY

- Acid bake, water leach, impurity removal & RE carbonate precipitation
- TREO recovery rates in final MREC =/> lab results
- Produced Samples for offtake customers testing



* ASX release: 22-May-2017

MREC

- Up to 43% Nd-Pr portion of TREO in MREC
- Removed impurities to acceptable product specifications
- Sale of MREC



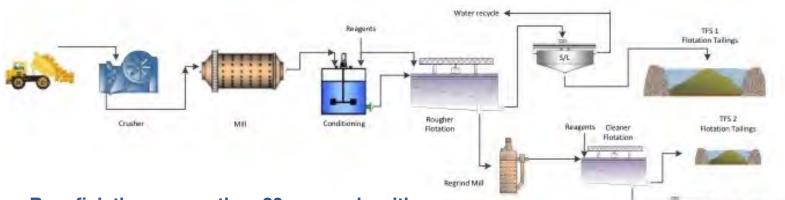
* ASX release: 22-May-2017

^{*} See Company ASX releases for additional information on all processes.

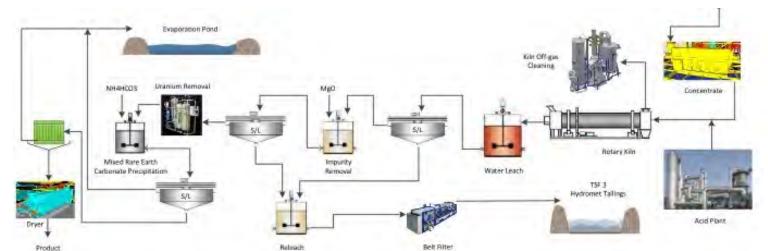
Yangibana Flowsheet



Pilot test work at ALS and ANSTO confirms production process



- Beneficiation more than 20x upgrade with 85% Nd-Pr recovery at optimum conditions
- Hydrometallurgy 41% Nd-Pr content in the Yangibana MREC





Flotation Pilot Plant Operation at ALS, Perth



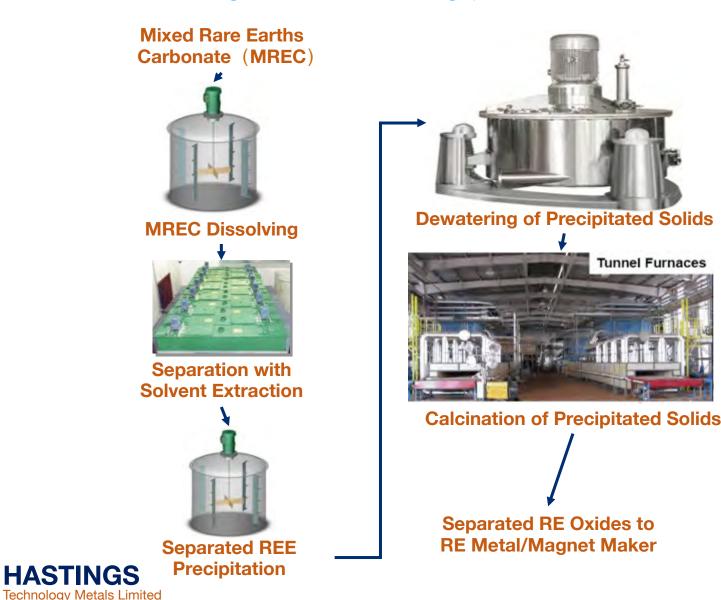
Final flotation concentrate from beneficiation pilot



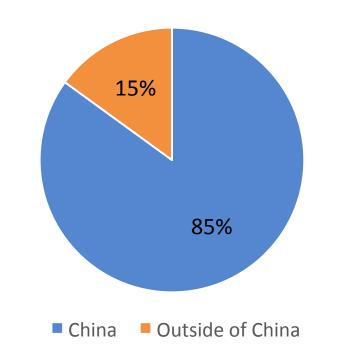
Neutralisation & Precipitation Circuit – Hydromet - ANSTO

Downstream Toll Treatment

Estimated Tolling cost USD 2.50/kg (based on 15,000 tons MREC)



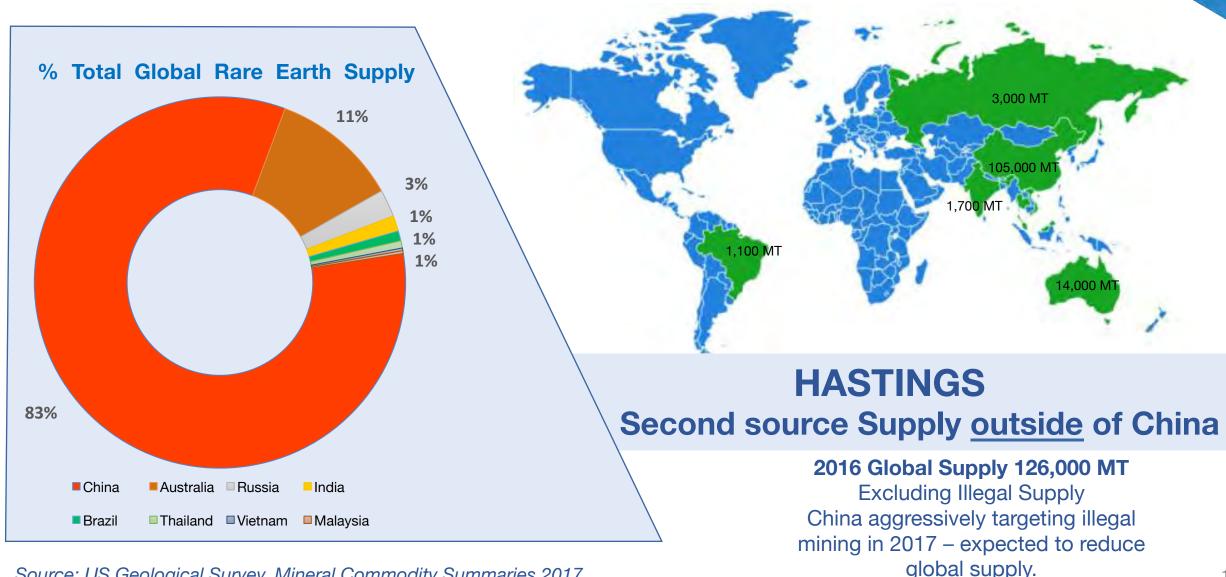
Global Separation Capacity



Excess Separation capacity outside of China includes the separators in Malaysia, India, Vietnam, Kazakhstan/eastern EU, etc.

Global Rare Earth Supply 2016

Supply diversification increasingly strategic



Source: US Geological Survey, Mineral Commodity Summaries 2017

Major Growth Applications

HASTINGS Technology Metals Limited

Demand drivers for permanent magnets from new technologies





GWEC projects wind capacity to reach 2,110 GW – 5X increase from today. est. ~ 10,000 to 15,000 t.p.a. additional Nd-Pr*



Electric Vehicles

Policy changes,
Manufacturer EV Targets
est. ~ 10,000 to 15,000
t.p.a. additional Nd-Pr



Magnetocaloric Refrigeration

30% to 50% more energy efficient & zero CFC usage NdPr usage ~ 1kg per unit Additional demand 6,300 t.p.a. by 2025

^{*} Assuming 50% of Wind Turbine market growth, 25% of EV growth.

Early Works Programme

Commenced Q1 2018





Bulk earthworks contracts scope developed and contractors under evaluation



Accomodation village sourced and contract under negotiations



Civil engineering
design being
finalised for:
•Access roads
•Village areas
•Laydown pad for
core and Sample
prep yard



Establised an
Owners Team
for Early
Contractor
Involvement
(ECI) for project
construction to
completion



Order Critical Path Long lead time items ie. Rotary Kiln, Sulphuric Acid Plant, SAG mill

Operational Readiness



1

Path for execution and establish monitoring process to eliminate deviations

2

Develop
Maintenance
Strategies in
parallel to
Engineering
design works

3

Review Risk
management
protocols and
establish systems
for health and
safety,
environment and
legal compliance

4

Establish and enter into supply agreements (parts, consumables etc)

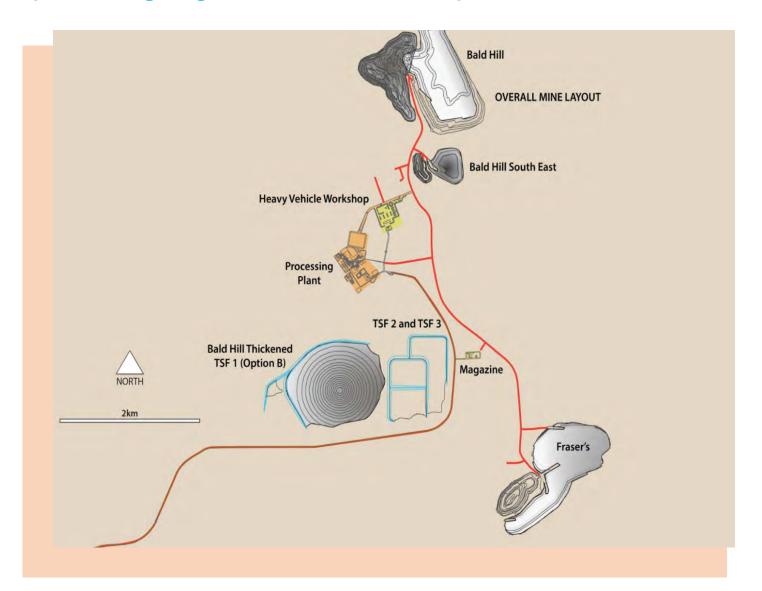
5

Community
Engagement via
signed Native Title
Agreement
Engagement with
Shire, State
authorities, local
pastoralists

Overall Mine Layout



Optimising logistics between deposits



- Mining by conventional drill and blast
- Pit optimisations were completed to determine the economic mining limits for each deposit
- Waste dumps located to minimise haulage distances
- Mining schedule based on value creation and waste reduction
- Water supply sourced from borefield near to process plant

Project Status









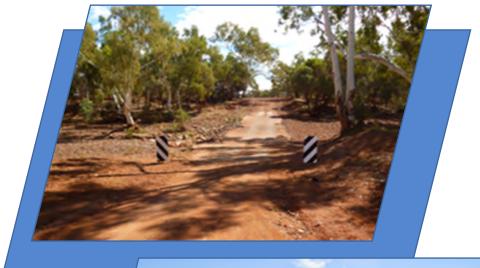
- Purchase Order placed for Accommodation Village (240 rooms), contract negotiations underway
- Tenders prepared for Bulk Earthworks
- Tenders issued for Long Lead Items (Rotary Kiln and Sulphuric Acid Plant)



Capital Cost for Infrastructure A\$50-60m



Expected Completion 4Q 2018





- Roads /Bulk Earthworks Access Roads & and River Crossings
- Accommodation Village and support infrastructure
- Upgrade airstrip at Gifford Creek
- Power Plant Diesel, LNG and Solar being evaluated
- Alternative Trucking & Shipping Logistics
- In discussion with NAIF for partial funding support on infrastructure

Timetable to Production





Milestones to production by Q1 2020

PROJECT IMPLEMENTATION SCHEDULE FOR YANGIBANA RARE EARTHS PROJECT

| | 20 | 17 | | 2018 | | | | | | 2019 | | | | | | | | | 2020 | | | | | | | | | |
|--|----|----|---|------|---|---|---|----|---|------|---|-----|--|---|---|---|-----|---|------|---|---|---|---|-----|---|---|---|---|
| Activities | N | D | J | F | M | Α | M | J. | J | A S | S |) N | | J | F | N | 1 A | M | J | J | Α | S | 0 | N D | J | F | M | Α |
| Definitive Feasibility Study (DFS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Permitting & Approvals | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design for Access Road & Bulk Earthwork for Accom Camp | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construct Access Road & Accomodation Camp | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basic Engineering Design (BED) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detailed Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Procure Long Lead Equipment - Rotary Kiln | | | | | | | | | 7 | H | | | | | | | | | | | | | | | | | | |
| Procure Long Lead Equipment - Sulphuric Acid Plant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Procurement (other equipment & bulk material) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Production Plant Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Commissioning | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Commercial Production Start | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

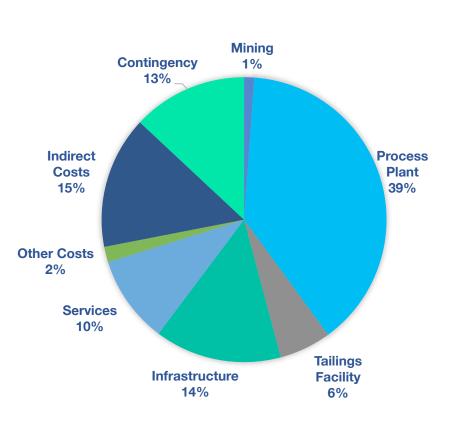
Above shows only the main Tender Packages



DFS Capital Cost A\$335m



An improvement of 20% from PFS



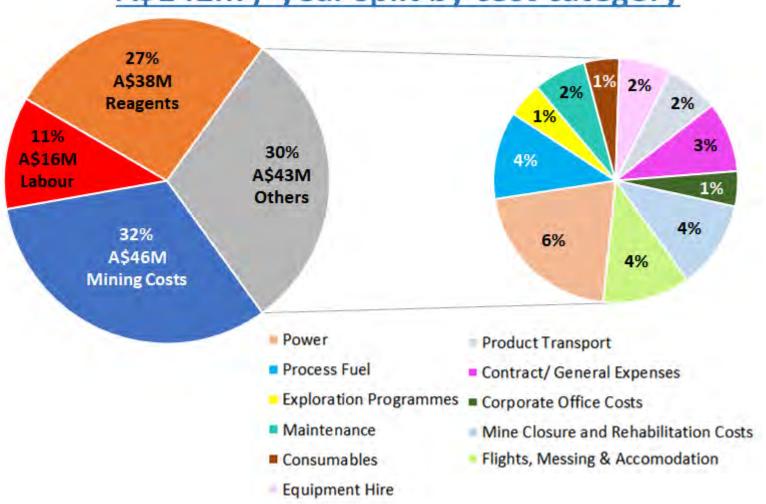
| Cost Centre | A\$ Million | Cost Centre | A \$ Million |
|--------------------------------|-------------|----------------------------|--------------|
| Process Plant | \$130.2 | Non Process Infrastructure | \$105.1 |
| Crushing and Screening | 3.6 | Mine Infrastructure | 3.9 |
| Grinding | 14.1 | TSF 1,2 and 3 | 19.5 |
| Flotation | 27.0 | Evaporation Pond | 0.3 |
| Beneficiation | 4.1 | Accommodation Village | 14.6 |
| Hydrometallurgy | 50.9 | Roads | 22.3 |
| Hydrometallurgy Reagents | 8.1 | Air strip | 1.6 |
| Reagents Plants | 19.7 | Plant / Mining Buildings | 9.8 |
| Pipe Racks | 2.7 | Water Supply | 9.2 |
| | | Power Supply | 17.0 |
| | | ICT | 0.9 |
| Cost Centre | A\$ Million | Other Services | 6.2 |
| Indirect Costs | \$56.3 | | |
| Spares & First Fills | 5.9 | Contingency | 43.7 |
| EPCM Costs | 37.6 | | |
| Owners Costs / Pre Production | 7.9 | | |
| Vendor Support / Commissioning | 3.6 | | |
| Project Insurances | 1.2 | Total Pre-Production CAPEX | \$335.3 |

DFS Operating Cost A\$17.06/kg of TREO



An improvement of 30% from PFS





- Processing Costs significant gains achieved in metallurgical process resulted in lower reagent consumption and costs decrease by 47%
- Minor increases in General & Admin costs mainly reflecting corporate admin expenses
- Resource increase in OPEX scope to further increase in future
- Mine closure costs included to LoM of 8 years – these will be diluted if LoM is extended beyond this period

Funding Programme

HASTINGS Technology Metals Limited

Commenced Q1 2018

Senior Debt and Subordinated Debt ~ A\$200 –250m

Equity ~ **A\$100m**

Working Capital ~ A\$30m

Cash in Bank ~ A\$25m

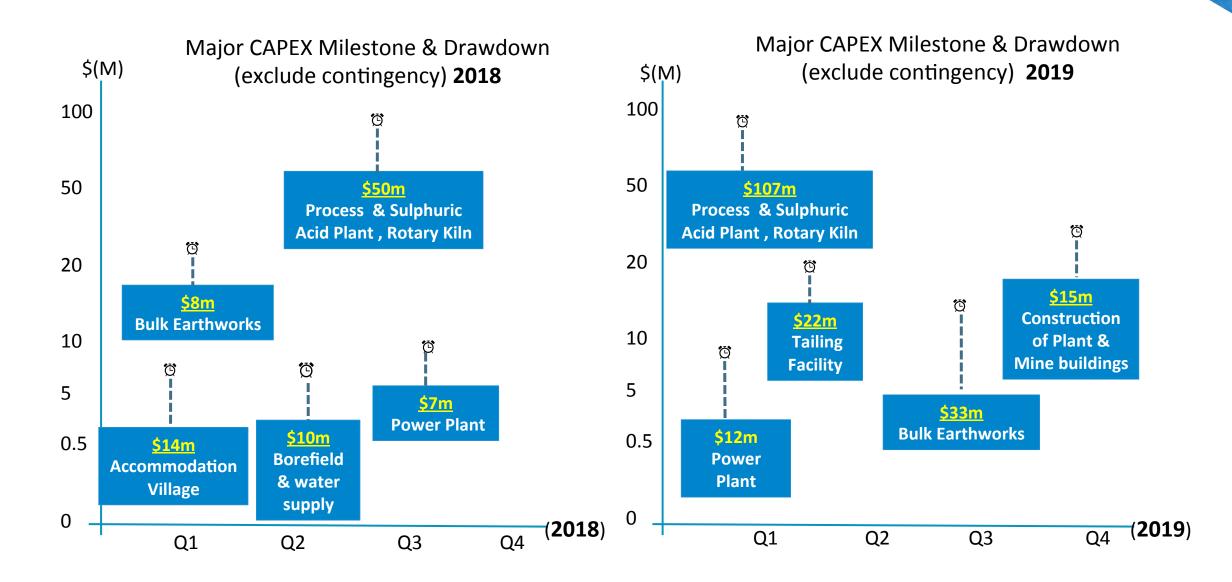
- Project Finance funding 65% Debt : 35% Equity
- Senior & Subordinated Debt financing potential sources:
 - ✓ Export Credit Agencies ie. Euler Hermes, JBIC,
 Government Ioan guarantee programs
 - ✓ Australian Government funded loan agencies ie. NAIF, CEFC
 - ✓ Short term Bridging Loan
 - ✓ Off take customer finance
- Working capital financing and trade lines
- Equity Private Placement, Rights Issue
- Cash post rights issue A\$25m (zero debt)

Project Drawdown





Milestones, Timeline & Expenditure

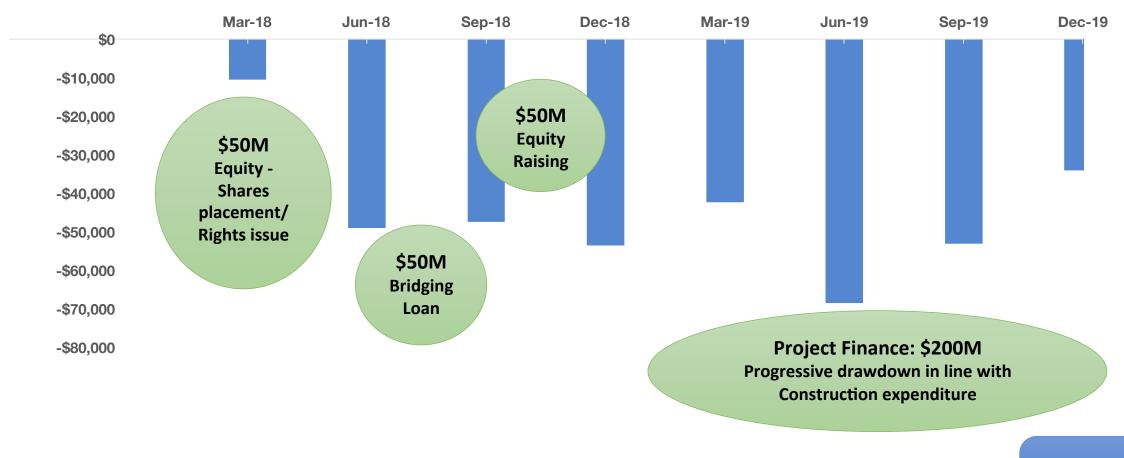


Projected Funding Drawdown



Schedule to determine funding requirement

HAS Projected Quarterly Drawdown and Proposed Cash Raising (A\$M)



 Current
 Mar 18
 Jul 18
 Oct 18
 Jan 19
 Aug 19

 \$25M
 \$50M
 \$50M
 \$150M
 \$50M

Total Cash

\$375M

Board of Directors



Experienced Directors and Management Team



Guy Robertson
Finance Director & Company
Secretary

- 30+ years CFO experience
- CFO for various ASX listed junior mining companies
- Senior finance executive in Jardine Matheson Group in Hong Kong and Australia including Jardine Lloyd Thompson, Colliers Jardine, and Franklins Limited



Charles Lew
Executive Chairman

- Corporate Finance Director HG Asia Securities 1990 - 1997
- MD of ABN Amro Investment Bank Singapore 1997 - 2000
- Independent Director of RHB Banking Group 2004 - 2016
- 30+ years experience in investment banking in London (HSBC & Robert Fleming) and in Singapore
- Private investor and entrepreneur in F&B, real estate, financial services, etc



Jean Claude Steinmetz
Non-Exec. Director /

Commercial Director

- Previously Chief Operating Officer for Lynas Corporation
- 25+ years Involved in the chemical industry with Rhodia and General Electric
- Chairman of the Auto Plastic and Innovative Materials Committee of Sino-EU Chemical Manufacturers Association

Management Team

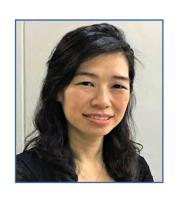
HASTINGS Technology Metals Limited

In depth experience and specialised skills



Andy Border General Manager Exploration

- 40+ years experience as a geologist
- Rare earths, copper, gold and industrial minerals
- Recent roles include Exploration Manager, COO and MD of a number of ASXlisted companies with projects in Australia and elsewhere



Pit Wah Chung
Chief Financial Officer

- 18+ years experience in financial reporting and tax
- Regional Financial Controller of Lifestyle Investment Group. CFO of Muddy Murphy's Holdings and Breadtalk Group Ltd
- Chartered Accountant of Singapore & fellow member of The Association of Chartered Certified Accountants (ACCA)



Hannes Zandberg
Project Director

- 30 years experience in mining, metallurgy, chemical refinery, infrastructure, power generation and advanced control systems; 10 years in operations and 20 years in projects
- Area Manager SNC-Lavalin Project Services, Project Director - Dundee Precious Metals, Engineering Manager – Moly Mines



Robin Zhang
Process Engineering Manager

- 20+ years experience in R&D, project engineering, plant commissioning & operations
- 8 years at Lynas Corporation -Senior Technical Services & Project Development Manager
- 11 years with Gansu Rare Earth Group, China - Deputy Director of Technical Centre

Specialised Technical Team





Dr Kwan Wong

KYSPYmet Mineral Processing Consultants - Flotation Specialist

- 50+ years practicing metallurgist with extensive flotation treatment experience in rare earth
- Evaluation of beneficiation 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 in Australian and overseas



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, copper, uranium, iron ore and RE industries



Valerie Quay

Legal Counsel

- Trained & Qualified Lawyer, Barrister at Law, Middle Temple UK
- 2 years at Herbert Smith, London
- Focus area and experience in corporate and commercial law
- Management & Strategy consulting at Mckinsey & Co, London
- Deputy Director Strategy and Corproate Governance, National Philantropic Centre, Singapore



Dr Nursen Guresin

Senior Metallurgist

- 30+ years in mining industry
- Expertise in physical (crushing, grinding)
- concentration processes) and chemical (hydrometallurgy, pyro-metallurgy electrometallurgy) ore processing
- Experienced in engineering studies metallurgical test work, site work (optimisation, trouble shooting, trials), audits, due diligence, Competent Person and NI 43-101 Reports, consultancy, research and lecturing

Four off-take MOUs signed





73% of Yangibana production under offtake MOUs to German and Chinese customers

- ➤ Thyssenkrupp Raw Materials Gmbh 5,000 tonnes per annum of Yangibana MREC for 10 years; for the German and European automotive and other industries
- Baotou Sky Rock Rare Earth New Material Co. Ltd 2,500 tonnes per annum (1 Aug 2017) Sky Rock produces high tolerance NdFeB permanent magnets. Main products include
 - Sintered Neodymium Magnets
 - Sintered Samarium Cobalt Magnets
- China Rare Earth Holdings Ltd 2,000 tonnes per annum (1 Sept 2017)
 - CREH started business in 1987 and listed on HKEX in 1999
 - Established manufacturer of rare earth derived and refractory products
- ➤ Qiandong Rare Earth Group (GQD) 1,500 tonnes per annum (13 Sept 2017)
 - GQD founded in 1988
 - Through 11 subsidiary companies involved in all parts of the rare earth product supply chain.
- ✓ Chinese offtake Selling price will be set at average of 3 months market prices prior to shipment
- ✓ On going negotiations for off-take agreements with Japanese customers

Summary





- Experienced management team with rare earth production experience
- Definitive Feasibility Study (DFS) completed Nov 2017
- Off-take MOUs signed with Thyssenkrupp, Germany and 3 Chinese RE producers
- Native Title Agreement signed
- Mining Lease granted for 21 yrs since March 2016



- MREC with high NdPr content
- DFS basket price:USD29.20/kg
- Mine construction 2Q 2018
 Production Q1 2020
- Probable Ore Reserves 5.15m tonnes
- JORC Resource Estimate currently @ 21.0m tonnes



- Market Cap A\$240m
- NPV A\$466m
- IRR 78%
- EBITDA payback 2.3yrs
- Cash post rights issue A\$25m
- No debt
- EVs exponential growth of 5x from 2020 to 2040

