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Hastings Technology Metals Ltd | ASX:HAS

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Mineral Sands and Rare Earths Conference Yangibana Rare Earths Project

**Tim Gilbert** Executive General Manager Mining Operations 19 March 2024

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### **COMPETENT PERSONS' STATEMENT**

The information in this presentation relating to Mineral Resources and Ore Reserves have been prepared by a Competent Person in accordance with the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code") and have been extracted from the release titled 'Annual Report to shareholders' dated 28 September 2023 which is available to view at www.asx.com.au under the code "HAS" (the original release). The Company confirms that it is not aware of any other new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. Hastings confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

The information that relates to Mineral Resources is based on information compiled by David Princep and Lyn Widenbar. Both Mr Princep and Mr Widenbar are independent consultants to the Company and members of the Australasian Institute of Mining and Metallurgy ("AusIMM"). Mr Princep and Mr Widenbar have sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this announcement and to the activity which they are undertaking to qualify as a Competent Person as defined in the JORC Code.

The information that relates to the Ore Reserves at Bald Hill, Simon's Find, Fraser's, Auer, Auer North, Yangibana and Yangibana North is based on information reviewed or work undertaken by Mr Stephen O'Grady. Mr O'Grady is an independent consultant to the Company, a member of the AusIMM, and a Director of Intermine Engineering Consultants. Mr O'Grady 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. Mr O'Grady consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

The scientific and technical information that relates to process metallurgy is based on information reviewed by Ms Narelle Marriott (former General Manager Process Development) of Hastings Technology Metals Limited. Ms Marriott is a member of the AusIMM and has sufficient experience 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. Ms Marriott owns shares in the Company and participates in the Company's employee share plan. Ms Marriott consents to the inclusion in this announcement of the matters based on their information in the form and context in which it appears.

The information that relates to Exploration Results in relation to the Yangibana Project is based on information compiled by Dr Louis Schürmann (PhD) (Chief Geologist) of Hastings Technology Metals Limited. Dr Schürmann is a Fellow of the AusIMM and has sufficient experience that is relevant to the activity being undertaken to qualify as a Competent Person as defined in the JORC Code. The Qualified Person has verified the data disclosed in this release, including sampling, analytical and test data underlying the information contained in this release. Dr Schürmann consents to the inclusion in the announcement of the matters based on his information in the form and context in which it appears.

## **CORPORATE SNAPSHOT**

Significant value upside from development of the Yangibana Rare Earths Project ("Yangibana Project")

**\$0.63** 

Share price<sup>1</sup>

## \$81.5 million

Market capitalisation

### 129.4 million

Ordinary shares on issue<sup>2</sup>

\$294 million

Net Assets

## \$42 million

Cash balance at 31 December 2023<sup>3</sup>

### 21.15%

Investment in rare earth materials and magnet producer Neo Performance Materials (TSX:NEO)

### **Major shareholders**

- 12% Executive Chairman Charles Lew and family
- 8.45% L1 Capital
- ~45% Top 20 Shareholders



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<sup>7</sup> At 18 March 2024 <sup>2</sup> Additional 6.5 million shares issued to Alpha Investment Partners as collateral for \$50 million At-The-Market facility <sup>3</sup>Inclusive of \$3.6m in restricted cash

### **Yaı** Rese Curr Inve

### Yangibana Project

Reserve inventory of 20.9mt with high NdPr:TREO ratio

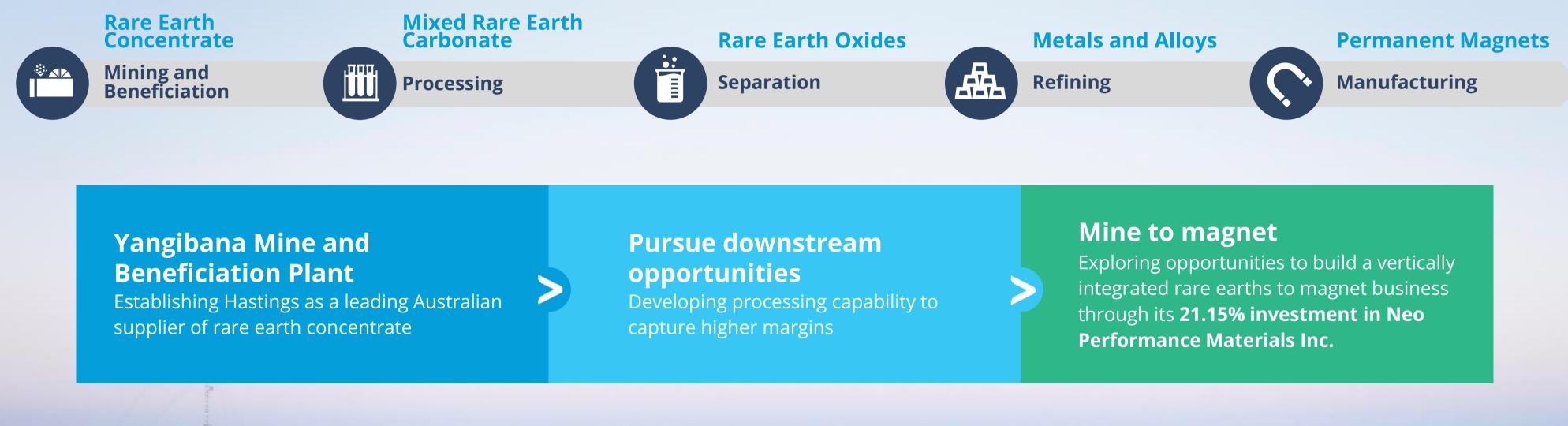
Current mine life of 17 years with significant upside

Investment of \$142 million in early works



## HASTINGS' STRATEGY

Building on the long-life of the Yangibana Project to unlock value through downstream processing opportunities





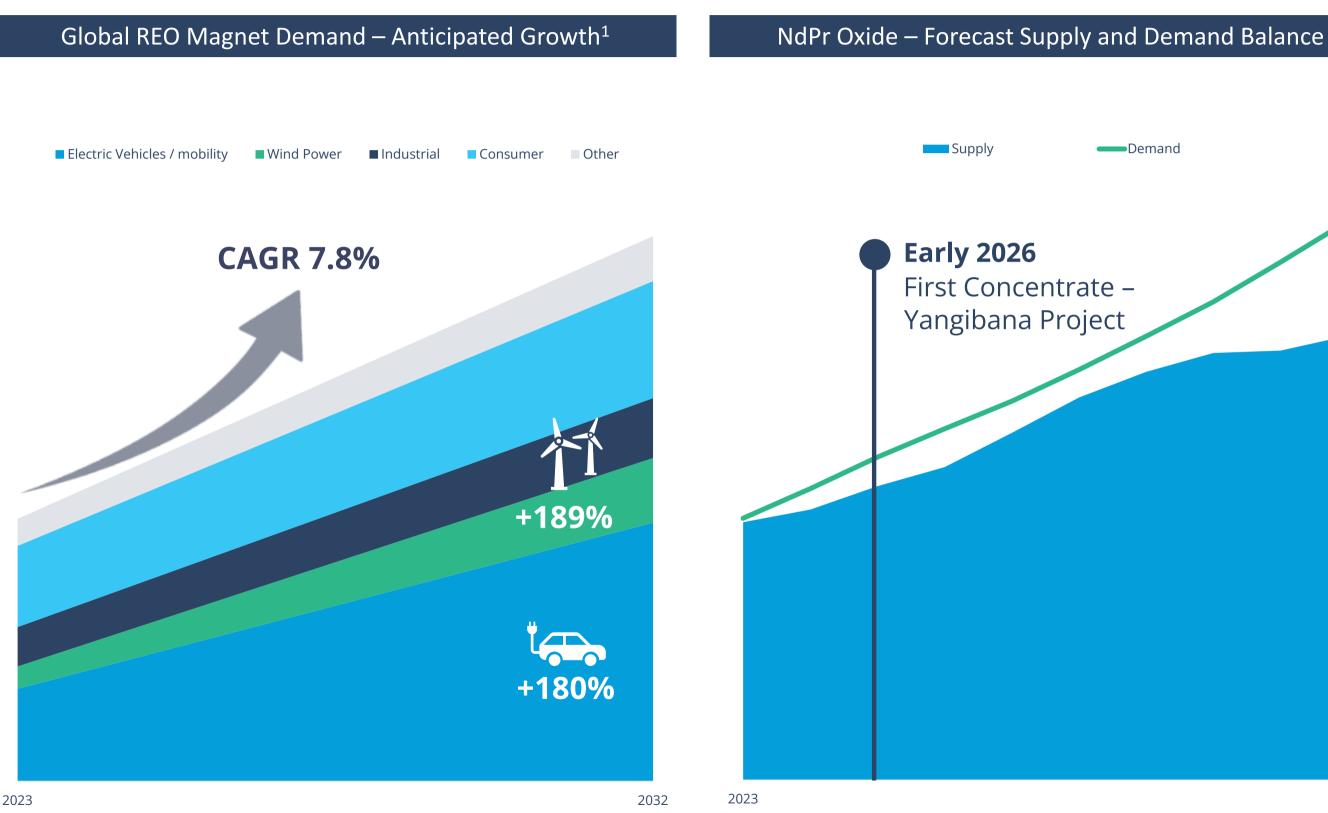
## **PROJECT OVERVIEW**

- 1 -





### **13X YANGIBANA PROJECTS TO MEET 2032 DEMAND** Supply deficit for rare earths driven by growth in demand for permanent magnets this decade



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<sup>1</sup> Global REO Magnet Demand represents rare earth elements used in magnets only (Nd, Pr, Dy, Tb oxides) Source (Global REO Magnet Demand – Anticipated Growth): Adamas Intelligence Forecast (April 2023) Source (NdPr Oxide – Forecast Supply and Demand Balance): Adamas Intelligence Forecast (Rare Earth Magnet Outlook to 2040 Q2/2023)

### Demand



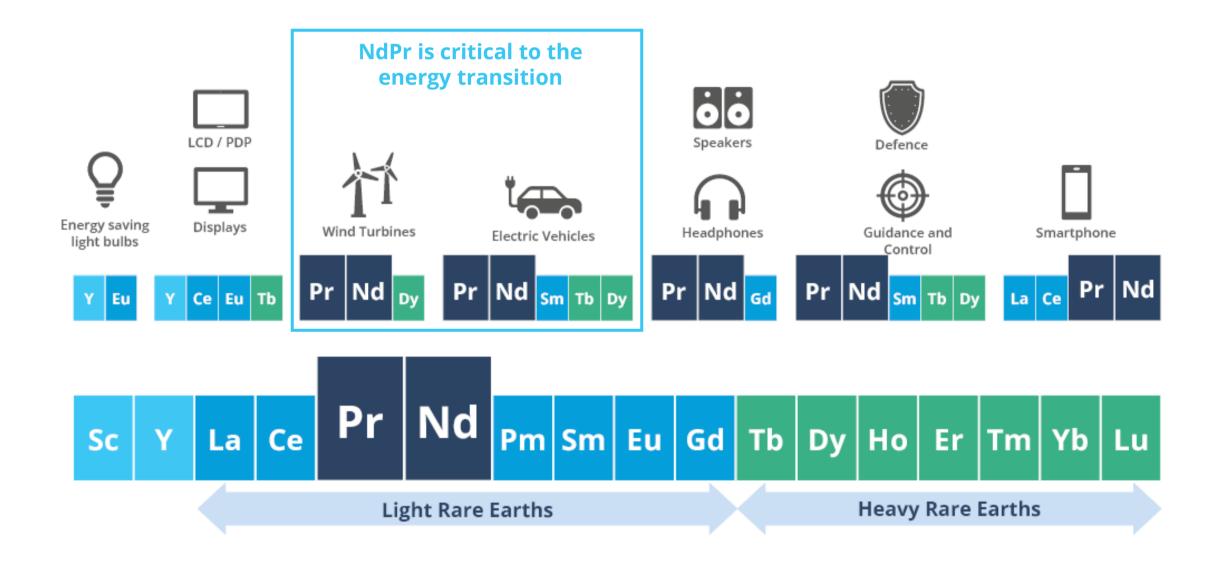
- Compound Annual Growth Rate ("CAGR") of 7.8% for rare earth magnets driven predominantly by electric vehicles and renewable energy technologies
- Significant demand gap to continue growing for the next decade

### Supply

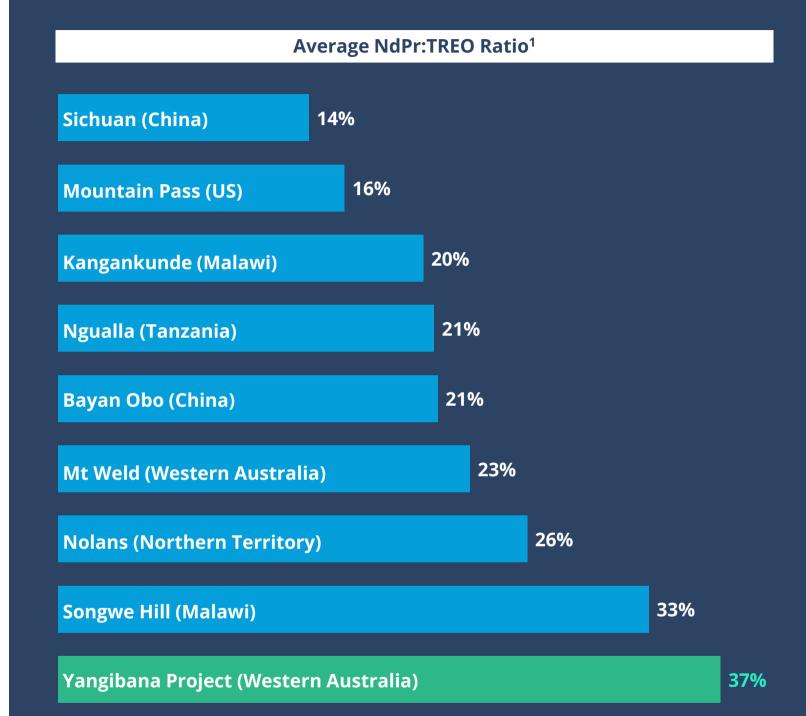
- 13x Yangibana Projects required by 2032 to support demand
- Near-term supply-side risks due to long project development lead times
- Market-wide cost escalations impacting potential developers

## **UNIQUE TIER ONE ASSET**

World-class deposit with unrivalled high percentage of NdPr:TREO in the orebody in a tier one jurisdiction, supplying the critical raw materials for rare earth magnets







Average NdPr:TREO ratio surpassing

most global projects

37% average NdPr:TREO ratio over life of mine, with up to 52% in certain parts of the orebody

## YANGIBANA PROJECT SNAPSHOT<sup>1</sup>

Fully permitted and high-margin project with multigenerational opportunities for the Gascoyne region

17 years

Life of mine

### 37%

Average NdPr:TREO ratio over life of mine, with up to 52% in certain parts of the orebody

### ~1.1mtpa

Material to the crusher, followed by a grinding and flotation circuit

### Employment

Construction Jobs>470Operations Jobs>270

**20.9mt** Ore Reserves

## **High margins**

First quartile on global operational margin curve, as assessed by CRU Group<sup>2</sup>

### 37,000tpa

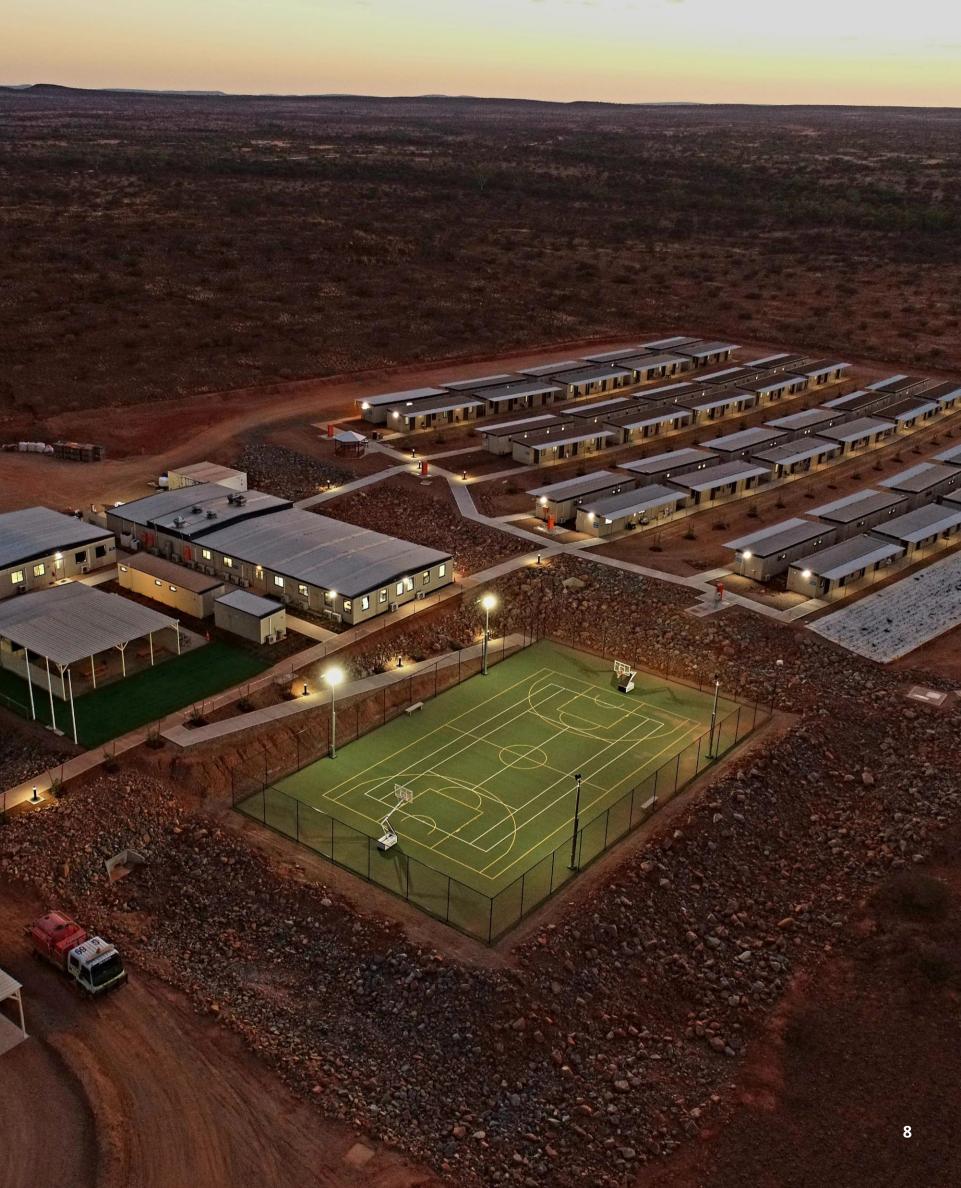
Rare earth concentrate at 27% TREO, containing ~3,400tpa of NdPr oxide

## Economic contribution

\$1 billion in Commonwealth tax income\$240 million in WA state royalties\$65 million in Native Title royalties

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<sup>1</sup>*Refer ASX Announcement: "Corporate Presentation - Staged Development Strategy", dated 31 May 2023* <sup>2</sup>*CRU Independent report: "Updated REE Prices and Margin 2023", dated 23 August 2023* 



## **PROJECT EXECUTION SIGNIFICANTLY DE-RISKED** Yangibana Project is shovel ready and fully permitted to move into development

### **Key Workstreams**

### **Technical and regulatory**

- Fully permitted for development and first concentrate production in 2026
- Native Title agreement in place with Traditional Owners
- Completion of Staged Development Study in Q2 2023
- Mine plan optimisation for first five years targeting lower strip ratios while maintaining grade to the process plant
- Beneficiation plant flowsheet extensively tested and de-risked

### **Execution and cost** management

- \$210 million EPC contract awarded to GR Engineering Services for construction of process plant
- \$120 million invested in construction of non-processing infrastructure – completed in Q4 2023
- \$22 million invested in long-lead critical path items
- Engineering designs for beneficiation plant at 81% complete
- Detailed design for bulk earthworks, civil and structural elements advanced

### **Commercial and funding**

- Offtake agreement in place for twothirds of annual concentrate production with thyssenkrupp Materials Trading
- Binding term sheet in place with Baotou Skyrock for integrated tolling and offtake agreement for a minimum of 10,000tpa of concentrate
- Non-binding indicative financing proposals received from multiple parties
- Final due diligence phase progressed including investor and bank site visits and due diligence calls with Hastings partners

### **Operational Readiness**

- Experienced management team in place with strong track record of project delivery
- Ongoing work to build internal processes and capabilities
- Negotiation ongoing on key commercial agreements, including:
  - Power purchase agreement for the Project's power station
  - Catering contract issued to market for competitive tender



## **CAPITAL COSTS**

\$142 million capital investment<sup>1</sup> provides strong base to ramp up construction



### Non-Processing Infrastructure

\$120 million invested to date<sup>1</sup> in finalising early site works

- Kurrbili Accommodation Village
- Yangibana Airstrip
- SipHon Well Borefield
- Site Access Roads

## Critical path equipment

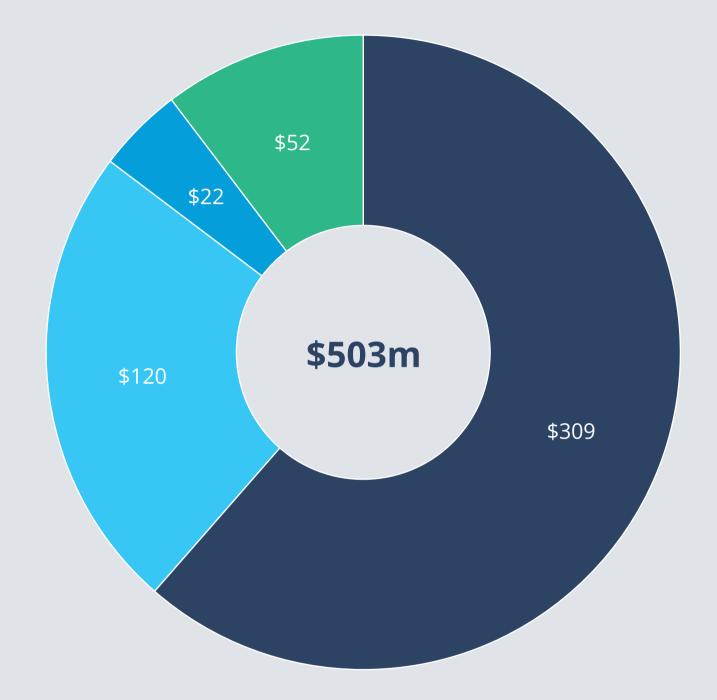
\$22 million invested to date<sup>1</sup> in long lead items

- In Transit/Delivered SAG Mill and Regrind Mill
- Fabrication Flotation Cells, Thickener, Mill Liner Handler

### **EPC contract**

\$210 million contract awarded to leading WA engineering and construction company GR Engineering Services<sup>2</sup>

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Remaining capital costCritical Path Equipment

Non Processing Infrastructure

Contingency

## YANGIBANA PROJECT'S PROGRESS





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Yangibana Airstrip



## MINING SCHEDULE<sup>1</sup>

Focus on first five year to identify cost saving and enhance economic returns

### Lower strip ratio

Mining model is strategically designed to target zones with well-defined grade and strip ratios, ensuring efficient extraction and maximising resource value, while maintaining feed grade to the process plant

### 

### **Process plant site**

Strategically located close to eight-kilometre long zone of economic mineralisation at Bald Hill, Simon's Find and Fraser's

### 

### **Higher free cashflow**

Maximising returns in the early years of operations and reducing in the capital payback period

### High margins

Leveraging favourable basket composition with high NdPr, the Yangibana Project is expected to be one of the highest margin producers globally, sitting in the first quarter of CRU's operational margin curve

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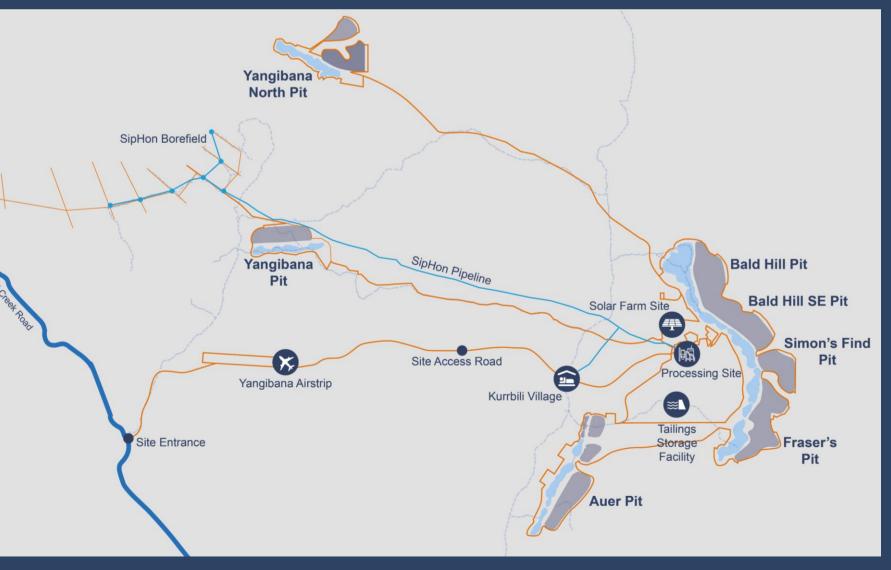
Ore Tonnes Mined (Mt) 0.7 0.7 0.7

0.5

0.0

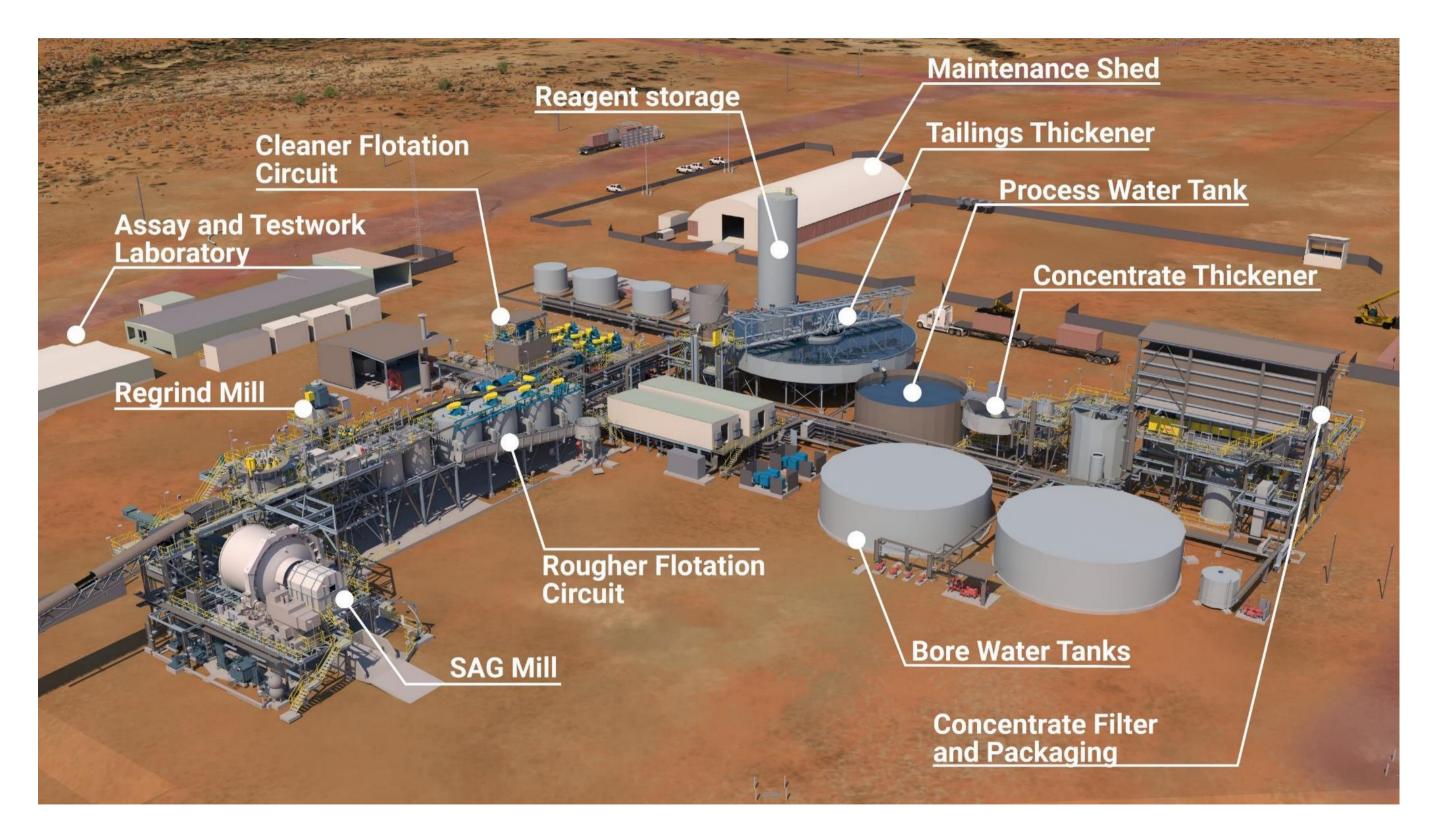
### Life of mine optimised mining sequence by orebody





## **BENEFICIATION PLANT CONSTRUCTION**

EPC contract in place with leading engineering and construction firm GR Engineering Services





Refer ASX Announcement: "HAS Reduces Yangibana Delivery Risk - Awards EPC Contract", dated 3 May 2023

### \$210 million contract<sup>1</sup>

Fixed price lump sum portion of \$180 million and provisional sum portion of \$30 million

### **Key benefits**

Lowers project delivery risks, lower cost, greater certainty on timeframe, process and product quality guarantees

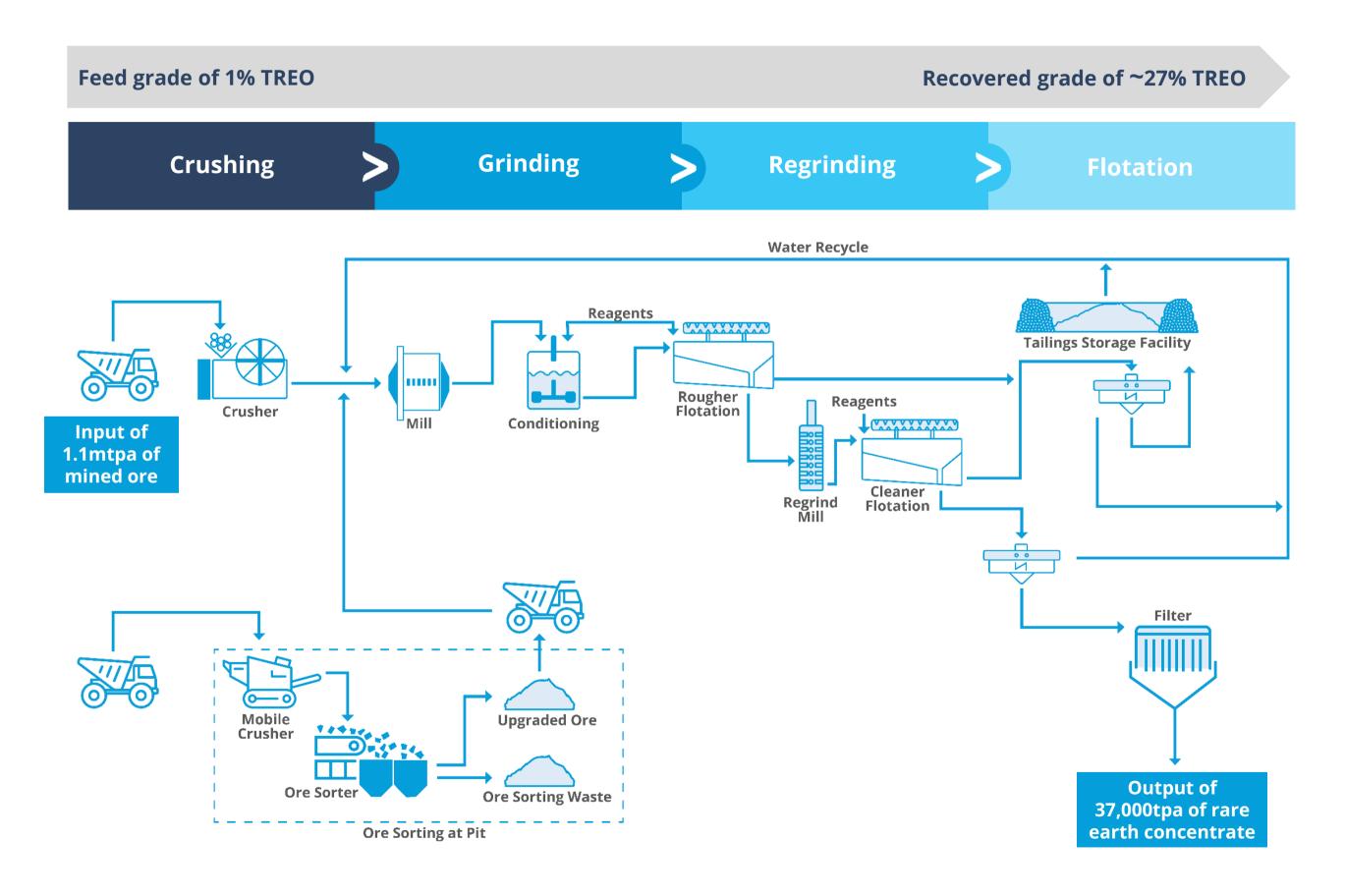


### **Performance guarantees**

Commissioning and operational support to ensure facility achieves quality and throughput guarantees

## **BENEFICIATION PROCESS**

Conventional flotation process which has been extensively tested and de-risked



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### >100 bench scale tests

Completed at four commercial labs to develop robust beneficiation flowsheet

### >80 variability samples

Covering expected range of grade and mineralogy tested through standard flowsheet



### Two pilot plant tests

Successfully validated simple and effect flowsheet

### **Successful bulk samples**

For use in downstream engineering equipment design test work

### Scale up from 150kg/h to 124t/h

Translation of process development batch and pilot programs into engineering design

## **OPERATING SUSTAINABLY**

Leading ESG credentials outperforming our peers and competitors in sustainability performance

### **Health and Safety**

Five years lost time injury free

### **Climate Change**

Commitment to minimum 40% renewables allowed for in capital forecast for Yangibana power station

### **Public benefit**

>470 and >270 jobs during construction and operations respectively and >\$1 billion in commonwealth tax income and >\$240 million in state royalties

### **Cultural Heritage**

Voluntary native title project agreement in place with the Thiin-Mah Warriyangka, Tharrkari and Jiwarli People

Agency	Rating	Agency	Rating
sustainalytics a Morningstar company RATED	Included in Sustainalytics' 2024 ESG top rated companies list	GOLD 2022 ECOVACIS Isustainability Rating	Gold Rating – ranked in the top five per cent of companies assessed
TCFD TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES	Formal supporter of the Task Force on Climate-Related Financial Disclosures	Global Compact	Participant of the Ten Principles of the UN Global Compact
<b>IFC</b>	Positively assessed against the IFC performance standards (World Bank)	EQUATOR PRINCIPLES	Positively assessed against the Equator Principles IV (World Bank)





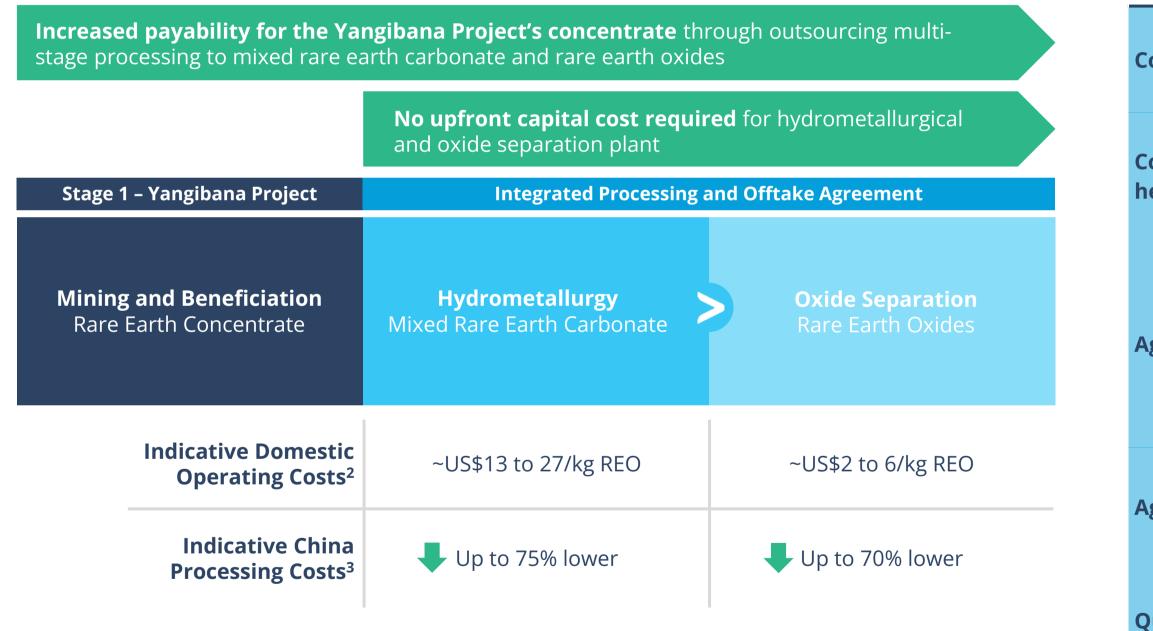


## PROJECT ECONOMICS AND OFFTAKE ARRANGEMENTS



## BUILDING A DIVERSIFIED CUSTOMER BASE<sup>1</sup>

Higher rare earth oxide revenue achieved through an integrated offtake and processing arrangement with negotiations underway to conclude similar arrangements for remaining volumes within thyssenkrupp framework





Refer ASX Announcement: "Presentation - Offtake and Economics Update", dated 16 February 2024
 Source: refer Slide 24
 Based on integrated tolling and offtake agreement with Baotou Sky Rock

	thyssenkrupp	TS SKYROCK		
Counterparty	thyssenkrupp Materials Trading	Baotou Skyrock Rare Earth New Material Co., Ltd		
Counterparty neadquartered	Essen, Germany	Baotou, China		
Agreement type	Binding Framework Agreement towards take or pay offtake contract	Binding Term Sheet for processing and offtake arrangement		
Agreement term	10 years (commencing on start of production)	5 years (from operations start) + 5 years (at Hastings' election)		
Quantity	Years 1-5 ~67% of production Years 6-10 ~30% of production	10,000tpa		

## **ROBUST PROJECT ECONOMICS<sup>1</sup>**

Improved metrics driven by move from previous domestic profit-sharing model to realising 100% of net revenue, as well as lower processing fees under the Baotou Skyrock agreement



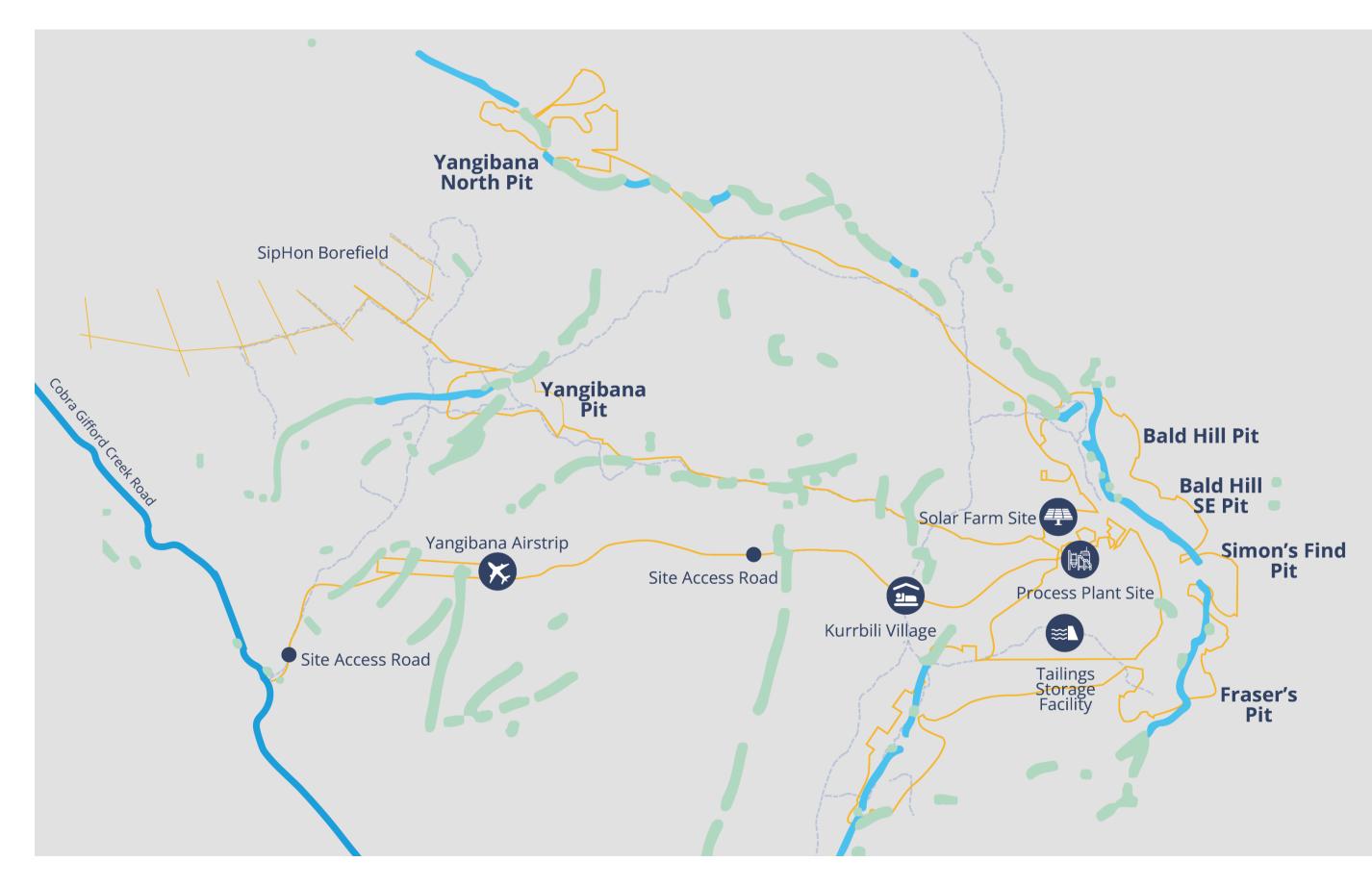
Refer ASX Announcement: "Presentation - Offtake and Economics Update", dated 16 February 2024

## FUTURE GROWTH OPTIONALITY



## **RESOURCE AND RESERVE DEVELOPMENT**

Significant exploration targets providing growth optionality



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<sup>1</sup> Refer to Slide 24 – Mineral Resources (Measured and Indicated) are inclusive of those Mineral Resources modified to produce the Ore Reserves Disclaimer: There is no certainty that further exploration work will result in the determination of Mineral Resources (or Ore Reserves)





Priority areas identified to expand mine life beyond initial 17 years to build long-term value for shareholders

## 66km strike length

Significant exploration upside with only one-third of strike length (24km) defined as a resource



40 – 60 million tonnes, confined to ironstone hosted mineralisation

Existing 29.93mt Mineral Resource has been defined over 24km of strike length

Additional exploration potential strike length of 42km identified

## **STRATEGIC HIGHLIGHTS**

Significant progress made to de-risk the pathway to first concentrate production in 2026

Globally significant world-class asset	<b>World-class rare earth deposit</b> with high proportion of neodymium and praseodymium (average of 37% over mine life) in the rare earth basket, producing minerals critical to the global energy transition
De-risked project execution strategy	<b>Shovel ready and fully permitted</b> with \$142 million invested in non-processing infrastructure and long-lead critical path equipment and EPC contract in place to commence main construction
High margin offtake supporting robust project economics	<b>New processing and offtake arrangement</b> to deliver improved economic returns including post-tax NPV <sub>11</sub> of \$865 million and IRR of 31.28% and enhance project funding options and flexibility
ESG focus	<b>Leading ESG credentials</b> assessed by independent third-parties, providing <b>employment and business development opportunities</b> for local communities and Traditional Owners
Clear long-term strategy to maximise value	Yangibana is a <b>multi-generational project</b> with significant exploration upside to support the increase in mine life, while also evaluating opportunities for <b>value-adding downstream processing opportunities</b>







## **Our Vision and Values**

To be a leading Australian producer of rare earth minerals needed to meet the global transition to renewable energy and advanced technologies.

### **>**Passion We are **loyal** to the project and work passionately to deliver our vision.

## >Tenacity

We pursue new opportunities and solutions with integrity and persistence.

## >Teamwork

We are **honest** and work as one team to achieve our common goal.

**>Owner's Mindset** We strive towards **excellence** and take care and responsibility in everything we do.





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Hastings Technology Metals Limited ABN 43 122 911 399

> Level 6, 197 St Georges Terrace Perth Western Australia 6000

**T:** +61 8 6117 6118 **E:** info@hastingstechmetals.com

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## **APPENDIX A: SOURCE DOCUMENTS**

PEER COMP	PEER COMPRISON – NDPR:TREO RATIO								
Mine	Ownership	Ticker	Stage of Development	Capex (A\$m)	Reserves Tonnage (mt)	TREO Grade	Category	NdPr:TREO ratio	Source
Yangibana	Hastings Technology Metals Ltd	HAS:ASX	Pre-production	503	20.93	0.90%	Proven and Probable	37%	6 February 2023: ASX Announcement: "Yangibana Ore Reserves Increase by 25%"
Songwe Hill	Mkango Resources Ltd	MKA:TSXV	Feasibility	479	18.15	1.16%	Proven and Probable	33%	<b>5 July 2022:</b> SEDAR Announcement: "Mkango Announces Results of Definitive Feasibility Study For The Songwe Hill Rare Earths Project In Malawi - NPV of US\$559.0 Million And IRR of 31.5%"
Nolans	Arafura Rare Earths Ltd	ARU:ASX	Pre-production	1,680	29.50	2.90%	Proven and Probable	26%	<ul> <li>11 November 2022: ASX Announcement: "Nolans Project Update"</li> <li>13 December 2023: ASX Announcement: "Arafura Rare Earths: Equity Raise Presentation"</li> </ul>
Mt Weld	Lynas Rare Earths Ltd	LYC:ASX	Production	N/A	19.7	8.60%	Proven and Probable	23%	<b>6 August 2018:</b> ASX Announcement: "Lynas announces a 60% increase to Mt Weld Ore Reserves, one of the world's richest sources of Rare Earths"
Bayan Obo	China Northern Rare Earth Group High- Tech Co Ltd	600111:CH	Production	N/A	>2,200	2.55%	Proven and Probable	21%	<b>15 December 2020:</b> Ord Minnett Report, "Hastings Tech Metals, Thematic Firing" S&P Capital IQ Pro: Property ID 31805 Reserves and Resources
Ngualla	Peak Rare Earths Limited	PEK:ASX	FEED Completed	441	18.5	4.8%	Proved and Probable	21%	<ul> <li>24 October 2022: ASX Announcement: "Ngualla Rare Earths Project Completion of Bankable Feasibility Study Update"</li> <li>30 November 2023: ASX Announcement: "Completion of FEED Study"</li> </ul>
Kangankunde	Lindian Resources Limited	LIN:ASX	Stage 1 Feasibility due Q1/2024	N/A	261 (Resource)	2.19%	Inferred	20%	<ul> <li>3 August 2023: ASX Announcement: "Maiden Mineral Resource"</li> <li>7 Feb 2024: ASX Announcement: "Indaba Mining Conference Presentation"</li> </ul>
Mountain Pass	MP Materials Corp	MP:NYSE	Production	N/A	29.3	6.32%	Proven and Probable	16%	<b>28 February 2023:</b> SEC Filing: Form 10-K – Annual Report,
Sichuan	Rising Nonferrous Metals Share Co. Ltd	600259:CH	Production	N/A	N/A	N/A	N/A	14%	15 December 2020: Ord Minnett Report, "Hastings Tech Metals, Thematic Firing"

HYDROM	METALLURGICAL AND SEPARATION COSTS OF DOMESTIC DEVELOPERS AND OPERATIONS         Ownership       Ticker       Total Costs / Processing Costs (\$m)       REO Production (tpa)       Source         Arafura Rare Earths Ltd       ARU:ASX       US\$138m       4,919t       7 February 2 11 November         Lynas Rare Earths Ltd       LYC:ASX       A\$346.2m       16,780t       12 October 2				
Mine	Ownership	Ticker		REO Production (tpa)	Source
Nolans	Arafura Rare Earths Ltd	ARU:ASX	US\$138m	4,919t	-
Mt Weld	Lynas Rare Earths Ltd	LYC:ASX	A\$346.2m	16,780t	12 October 2
Eneabba	Iluka	ILU:ASX	A\$160m	12,400t	4 April 2022:

Note: Cost indication range was based on Hastings' Onslow Hydrometallurgical study and desktop analysis of peers' processing costs escalated to 2024 real\$. Note estimates are a desktop study only. AUD/USD rate of 0.65 was adopted.

MINERAL RESOURCES AND ORE RESERVES <sup>1</sup>									
TOTAL JORC (2012) MINERAL RESOURCES (30 OCTOBER 2022)				TOTAL JORC (2012) ORE RESERVES BY DEPOSIT (6 EFBRUARY 2023)					
Category	mt	%TREO	%NdPr	TREO tonnes	Deposit	mt	%TREO	%NdPr	NdPr: TREO
Measured	4.97	0.96	0.37	47,721	Bald Hill	8.12	0.79	0.32	41
Indicated	19.51	0.88	0.32	171,936	Fraser's	1.77	1.01	0.43	43
Sub-total	24.49	0.90	0.33	219,657	Simon's Find	2.69	0.53	0.28	53
Inferred	5.45	1.05	0.31	57,298	Auer	2.83	0.96	0.34	35
TOTAL	29.93	0.93	0.32	276,955	Yangibana	1.31	0.79	0.37	47
<sup>1</sup> Refer ASX announcement "Yangibana Ore Reserves Increase by 25%", dated 6 February 2023; numbers may not add due to rounding; for reference that the Ore Reserves stated is included as part of the Mineral Resources Disclaimer: There is no certainty that further exploration work will result in the determination of Mineral Resources (or Ore Reserves)				Yangibana North	4.21	1.29	0.34	26	
				TOTAL	20.93	0.90	0.33	37	

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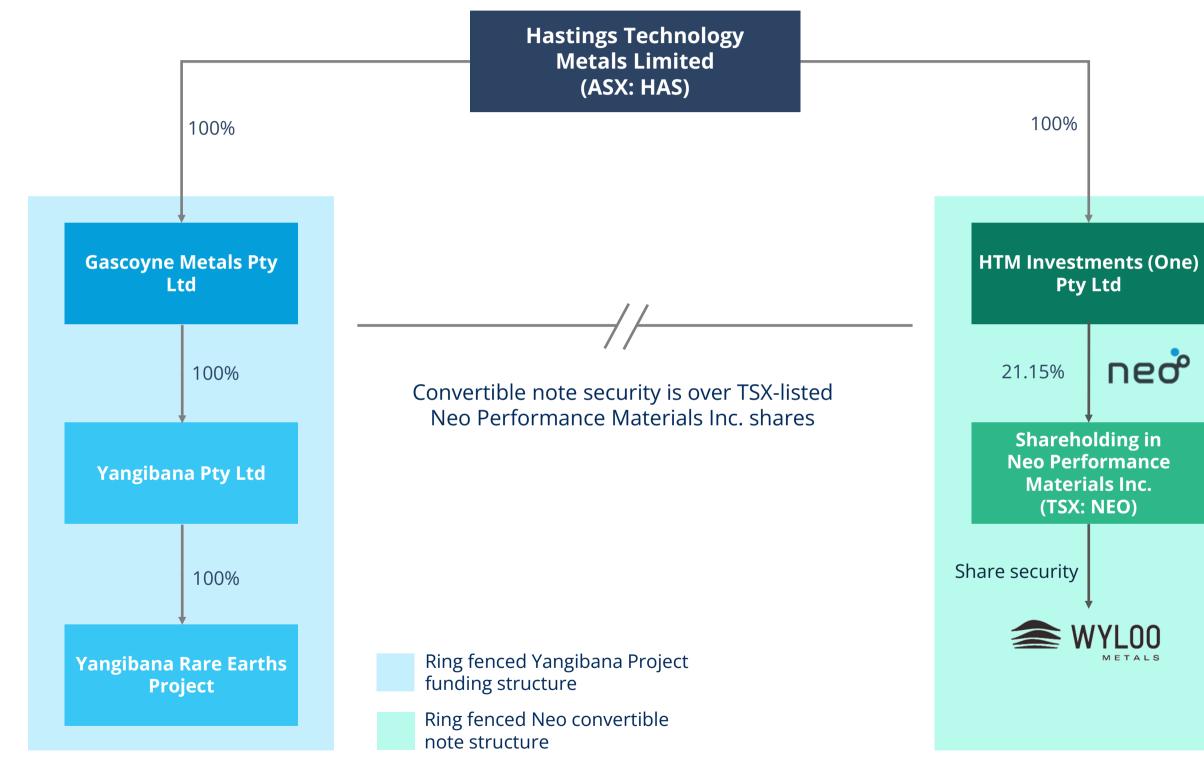
**y 2019:** ASX Announcement: "Nolans DFS Delivers Robust Project Economics" **ber 2022:** ASX Announcement: "Nolans Project Update"

*r 2023:* ASX Announcement "2023 Annual Report"

22: ASX: Announcement "Eneabba Rare Earths Refinery – Final Investment Decision Presentation"

## **APPENDIX B: CORPORATE STRUCTURE**

Separate ring-fenced funding structures with Wyloo convertible note secured over Neo shares



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Yangibana Project encompasses 100% owned tenements through Yangibana Pty Ltd and tenements owned 100% by Gascoyne Metals Pty Ltd

Investment in Neo Performance Materials Inc. and limited recourse funding is ring fenced