MAGNETITE

MINES



Global Iron Ore & Steel Forecast Conference

March 2022

Disclaimer

IMPORTANT NOTICE

The purpose of this presentation is to provide general information about Magnetite Mines Limited ("MGT"). It is not recommended that any person makes any investment decision in relation to MGT based on this presentation. This presentation contains certain statements which may constitute "forward-looking statements". Such statements are only predictions and are subject to inherent risks and uncertainties which could cause actual values, results, performance or achievements to differ materially from those expressed, implied or projected in any forward-looking statements.

No representation or warranty, express or implied, is made by MGT that the material contained in this presentation will be achieved or prove to be correct. Except for statutory liability which cannot be excluded, each of MGT, its officers, employees and advisers expressly disclaims any responsibility for the accuracy or completeness of the material contained in this presentation and excludes all liability whatsoever (including in negligence) for any loss or damage which may be suffered by any person as a consequence of any information in this presentation or any error or omission therefrom. MGT accepts no responsibility to update any person regarding any inaccuracy, omission or change in information in this presentation or any other information made available to a person nor any obligation to furnish the person with any further information.

ADDITIONAL INFORMATION

This presentation should be read in conjunction with the Annual Report at 30 June 2021 together with any announcements made by MGT in accordance with its continuous disclosure obligations arising under the Corporations Act 2001. Any references to resources estimations should be read in conjunction with MGT's Mineral Resources statement for its Magnetite projects at 30 June 2021 and subsequent releases to the Australian Securities Exchange as referenced. MGT confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and, in the case of estimates of mineral resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. All amounts within this presentation are stated in Australian Dollars consistent with the functional currency of MGT, unless otherwise stated. Tables contained within this presentation may contain immaterial rounding differences.

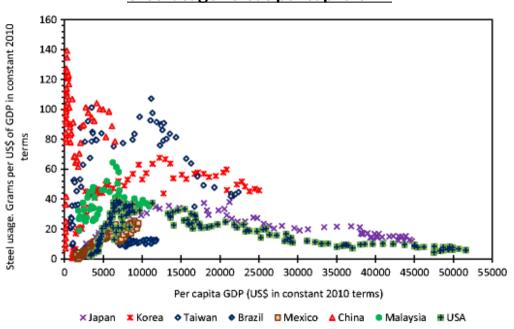
ACKNOWLEDGEMENT OF COUNTRY

Magnetite Mines, our shareholders and our stakeholders acknowledge the Ngadjuri People as the Traditional Owners of the lands on which the Razorback Iron Ore Project is located. We respect their continuing custodianship of this Country, and their spiritual and cultural beliefs and practices.



Steel intensity of use models widely used, but many issues

Steel usage versus per capita GDP



- Conventional analysis suggests steel intensity in a country increases as countries develop, peaking then plateauing ('peak steel')
- But many other factors at play, such as trade, stocks, technology, GDP composition, 'de-intensification', recycling, environmental factors etc
- China's pathway has not proved amenable to traditional intensity or econometric tools

Crowson, P. Intensity of use reexamined. *Miner Econ* 31, 61–70 (2018);
Open Access This article is distributed under the terms of the Creative Commons Attribution 4.0 International License



Forecasting Accuracy – 2015 perspective

Peak steel in 2015?

"China's steel production has already hit a peak, or to put it another way, it has hit a turning point."

CISA, Feb 2015

"Concerns raised as China steel enters 'peak zone'"

FT, Feb 2015

"the increasing market consensus is that China is at or close to reaching the maximum level of steel output and demand" Reuters, Feb 2015

Iron ore oversupply?

"BHP Billiton is expecting at least another ten years of iron ore oversupply before the market balances out."

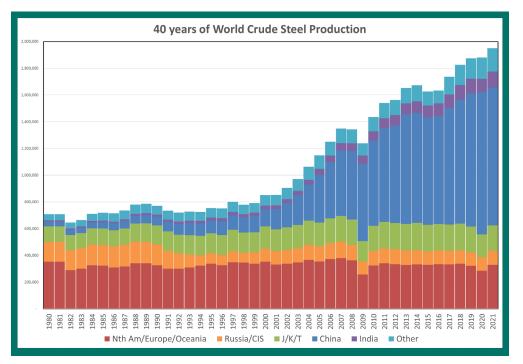
mining.com, Jun 2016

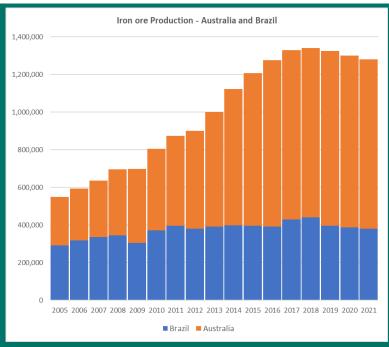
"There are many iron ore mining projects in the investment pipeline, and considerable capacity is likely to be added over the next two to three years. We estimate that at least 145 million mt and perhaps as much as 370 million mt of new capacity will come on stream in the period up to and including 2017.

Anton Löf and Magnus Ericsson, E&MJ, Nov 2015



Actual outcomes





- > Traditional steel production stable; growth shifting from China to newly industrialising economies
 - > Asia (excluding China) and Africa has over 60% of global population but only 17% of crude steel production
- Without large scale, long lead investment, production exposed to operational issues and supply depletion



The Iron Ore Market

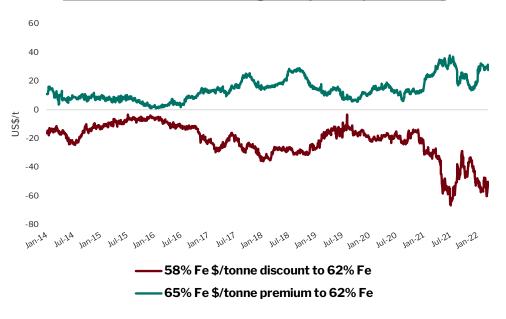
Lower-emissions steel from high-grade ore

"To succeed in decarbonizing the global steelmaking industry there needs to be a greater recognition of how much the iron ore supply base needs to change. Vast volumes of existing production will need to be replaced by higher-grade supply, first to meaningfully reduce CO2 emissions from the prevailing BF/BOF technology, and later to meet the demands of a DRI sector at least an order of magnitude larger than it is today"

PETER HANNAH FASTMARKETS/METAL BULLETIN

https://www.fastmarkets.com/article/3974510/iron-ores-critical-role-in-decarbonizing-steelmaking

Fastmarkets iron ore index grade spreads (US\$/tonne)



CRU

"Steelmakers need to adopt best practices that prioritise decarbonisation with existing assets. Some of these best practices include installation of energy efficient technology, optimisation of the blast furnace (BF) burden (e.g. with high-grade ore)"

 $\frac{https://www.crugroup.com/knowledge-and-insights/insights/2021/decarbonisation\%0B-challenges-in-the-steelmaking-industry$



Large Resource, Long Life

The Braemar and Razorback

LARGE, ACCESSIBLE MINERAL RESOURCES

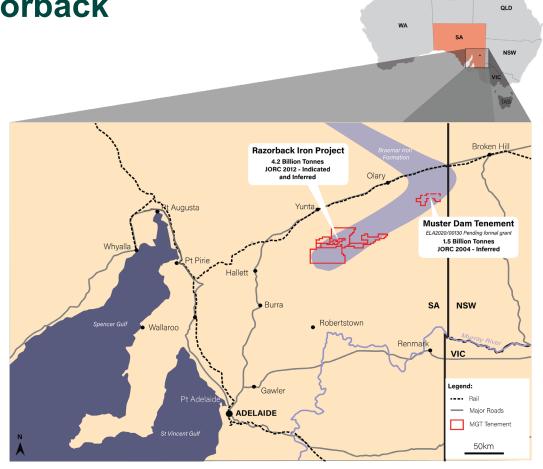
- ➤ Company Mineral Resources of 5.7Bt including Muster Dam^{1,2,3,4}
- > 240km to Adelaide from Razorback.

ESTABLISHED INFRASTRUCTURE NEARBY

- Heavy freight open access rail.
- ➤ High voltage powerlines connected to main Australian grid.
- Operational iron ore port with capacity.

FAVOURABLE REGION

- ➤ Supportive and stable government in a tier 1 jurisdiction.
- ➤ Low intensity pastoral country.





NT

Minimal Capital

Existing Infrastructure

Crystal Brook-Broken Hill railway connects to Whyalla Port

Broken Hill

Muster Dam Tenement
ELA2020/00130 Pending formal grant
1.5 Billion Tonnes

JORC 2004 - Inferred

NSW



 Whyalla expected to have capacity for increased throughput

- Strong investment case for constructing a rail loop once in production
- At >4Mtpa production, the rail loop is estimated to be paid back in five years

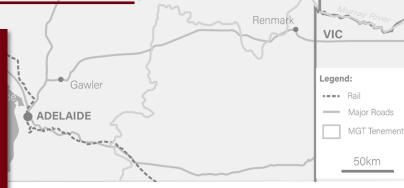


Whyalla

Rt Augusta

Wallaroo

- Access to competitive energy with high renewables content
 - Built under long term
 Transmission Service Tariff –
 no upfront capex



Robertstown

Razorback Iron Project

4.2 Billion Tonnes

JORC 2012 - Indicated

and Inferred

Proposed rail loop to

Burra

mine site

Company Strategy

Staged Development of a new iron ore province - the Braemar

South Australia

Favourable

- business setting
- with growing iron
- ore demand,
- premiums for high
- grade products and
 - limited new supply.

Large Razorback resource with

- world-class
- infrastructure and
- favourable mining
- jurisdiction.

Low-capital, long-

- **life** development is readily fundable
- with high returns⁵.

Experienced team

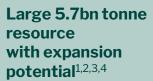
- systematically
- assembling the
- building blocks for
- a sustainable and
- attractive business.



Delivering Premium Iron Ore to High Demand Markets



LONG LIFE with OPTIONALITY



► Expansion Study⁶ - results confirmed significant upside potential of scaling up Razorback and the advantages of an intergenerational resource.



LOW INITIAL PROJECT CAPITAL

Staged Razorback development with **ESG** advantages

- Mining/Strip minimal stripping.
- ▶ Power Fast coast grid power.
- ▶ Infrastructure existing rail and port access.
- Low emissions renewable power and low emissions product.



HIGH-GRADE PRODUCT



DELIVERING

68% Fe product⁵

Higher than any of the routinely quoted iron ore indices.

First ore on ship planned for late 2024/early 2025

- Tier 1 Jurisdiction supportive government.
- ► High-quality Team - extensive iron ore and project experience.



Unlocking the Braemar

Attractive, Staged Development Pathway

STAGE 1
15.5Mtpa plant capacity
= 3Mtpa capacity

STAGE 2
31.0Mtpa plant capacity
= 5Mtpa capacity

STAGE 3
46.5Mtpa plant capacity
= 7Mtpa capacity



A STAGED DEVELOPMENT APPROACH offering outstanding returns with future expansion options

- > DFS based on 3Mtpa of capacity and minimum upfront capital
- ➤ Substantial resources support further optionality and long mine life



ATTRACTIVE ECONOMIES OF SCALE, additional cash flow and enhanced shareholder value

- Competitive \$US40/t all-in 62% Fe iron ore breakeven price.
- > Two-year payback on incremental expansion



PREMIUM PRODUCT for the transitioning steel industry

- ➤ 68% high-grade product is attractive to steelmakers
- A growing population, continued urbanisation, and developing economies drive demand.

Expansion Study

Overview

✓ COMPLEMENTARY to the current DFS

- DFS based on 3Mtpa of capacity and minimum upfront capital
- Expansion Study assessed benefits of increasing production following this initial Stage 1 development

√ HIGH-QUALITY & ROBUST engineering

- Disciplined, technically-led approach to resource development
- Data and analysis based on 2021 PFS studies from best-in-class consultants (Hatch, GHD)

✓ LARGE RESOURCE supports higher production

- 87% of production in first ten years of expansion cases from Probable Ore Reserves
- Expansion cases based on run-of-mine ore of 1.4bn tonnes equivalent to just 32% of Razorback's 2012 JORC

✓ ATTRACTIVE PATHWAY

- Scale leads to capital and operating economies
- NPV8 of \$2.5B with overall returns of 27% post tax (incremental expansion IRR 33%)

Key operational and financial metrics

	Unit	Staged Expansion	Single-Step Expansion	PFS Plant Optimised ¹
Iron ore price (62% Fe)	US\$/t	110	110	110
AUD:USD exchange rate ²	:	0.71	0.71	0.71
Model duration	Years	33	32	30
LOM ore	Mt	1.365	1,365	461
LOM concentrate	Mt	193	193	68
LOM strip ratio	t:t	0.13	0.13	0.10
LOM yield	%	14.4	14.4	14.7
Nominal plant feed at scale	Mtpa	46.5	46.5	15.5
Average annual product at scale	Mtpa	6.7	6.8	2.2
Development capital	A\$m	1,985	1,985	665
Average net cashflow	A\$m	459	491	127
Post-tax NPV	A\$m	2,239	2,455	660
Post-tax IRR	%	25%	27%	19%
All-in breakeven ³	US\$/t	41	40	53

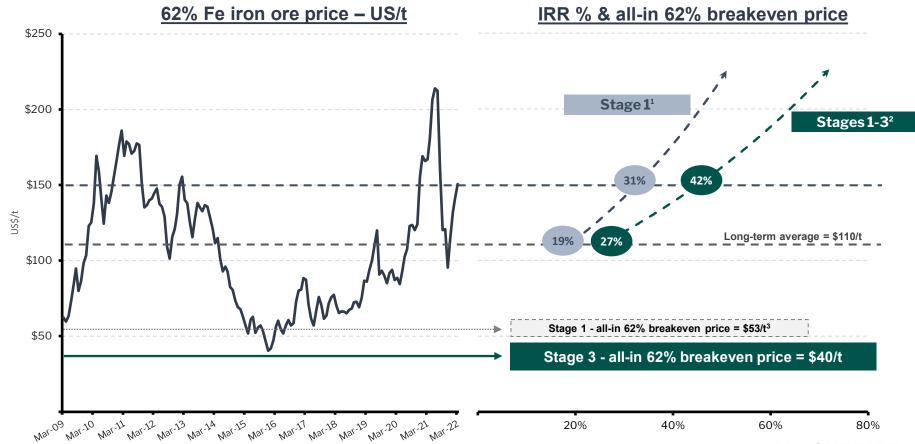
As the Plant Optimised case provided the basis of design for Stage 1 of the Expansion Study case, it is the most logical reference case

^{2.} The average AUD:USD exchange rate in the three months to February 2022 was 0.7165

^{3.} The 62% Fe iron ore price at which the NPV-8 of post-construction net cash flows equals zero, calculated at the commencement of the last stage of production

Significant Upside Potential

Robust Economics



Stage 1 equivalent to PFS Plant Optimised case

Single-Step Expansion cas

The same metric at an AUD:USD exchange rate of 0.75 is US\$58/t

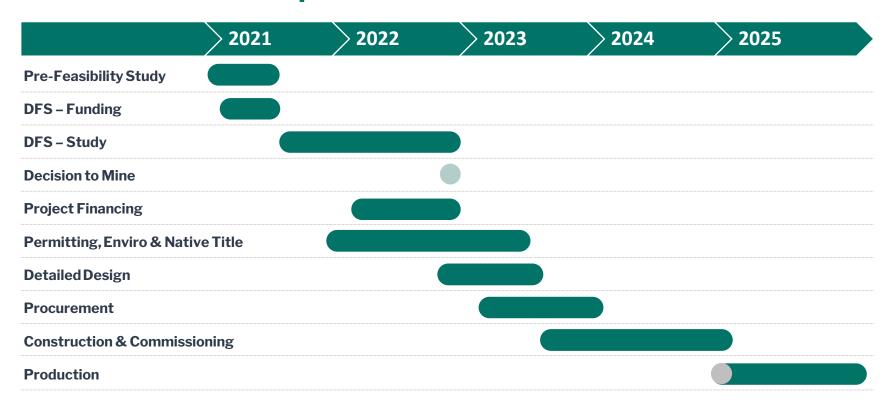
Environment, Social and Governance (ESG)

- POWER is anticipated to be sourced from the South Australian grid, forecast to be 97% renewables-powered by 2025⁷, delivering an expected low scope 2 emissions profile.
- PREMIUM HIGH-GRADE PRODUCT supports the steelmaking subsector targeting low scope 3 emissions profiles.
- The preferred water supply for the expansion project is a **WASTEWATER** source with no current productive use
- Increased opportunities for GREATER LOCAL PARTICIPATION including procurement and workforce development.
- Enduring relationships with FIRST
 NATIONS communities built on transparency, accountability and respect





Indicative Development Schedule*



^{*}Schedule subject to review as part of DFS currently underway



Next Steps

Delivering Premium Iron Ore to High Demand Markets



DELIVERING THE DFS - work programs underway

- Planning and engagement of key engineers
- Baseline permitting and mining lease studies
- Heritage and cultural studies, early stakeholder engagement
- Hydrogeological studies



ADVANCE RAZORBACK DRILLING programs

- Hydrology confirming water resource
- Metallurgical sample recovery and test work programs
- Mineral Resource
 infill and
 expansion.



FINANCE

- Meeting key lender requirements
- Debt finance, modelling and metrics
- Developing relationships with potential financiers
- Assessing possible strategic partnerships



EXPANSION OPTIONALITY demonstrated

- Future infrastructure requirements for expansion factored into Project design
- Further study work for expansion to commence once DFS is complete
- Focus on realising initial ~\$2bnProject value



CONTACT DETAILS

investor.relations@magnetitemines.com - +61 8 8427 0516 - www.magnetitemines.com



References

- 1. ASX Announcement 24/05/21 Razorback Iron Project Mineral Resource Upgrade
- 2. ASX Announcement 20/11/18 Ironback Hill Deposit JORC 2012 Resource Update
- 3. ASX Announcement 01/03/21 Muster Dam Iron Project Tenements awarded to Magnetite Mines
- 4. ASX Announcement 30/06/21 Maiden Ore Reserve for the Razorback Iron Project
- 5. ASX Announcement 05//07/21 Positive PFS Results for Razorback Iron Project
- 6. ASX Announcement 21/03/22 Magnetite Mines Confirms Benefits of Expansion at Razorback
- 7. Australia's emissions projections 2021, Australian Government Department of Industry, Science, Energy and Resources Oct 2021

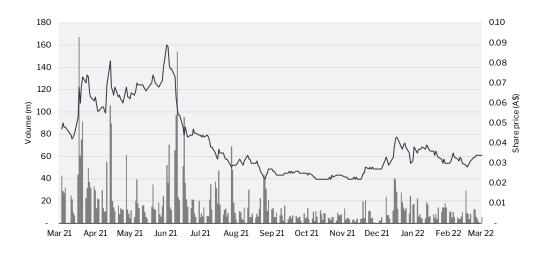




Appendix



Corporate Overview



BOARD AND OTHER **TOP 20** SHAREHOLDERS MANAGEMENT







CAPITAL STRUCTURE

3.159 M **Shares**

Unlisted 153.1M **Options**

(various – avg. \$0.03)

Share Price* A\$0.034

Market Cap* A\$107M



Board Members & Management



Peter Schubert EXECUTIVE CHAIRMAN & CEO

Peter was appointed Executive Chairman of Magnetite Mines on 3 Sep 2018. Peter has a track record of identifying, growing and developing businesses with a focus on the resources sector, with over 30 years of direct experience in international and domestic markets.



Mark Eames

BA Metallurgy (Hons) MBA MAUSIMM
TECHNICAL DIRECTOR

Mark has a successful track record in the global minerals industry in exploration, evaluation, development, acquisitions, operations, marketing and senior corporate management. He is a qualified metallurgist with extensive experience in Australia and overseas and has held senior roles working with the iron ore businesses of Glencore, Rio Tinto and BHP.



Malcolm Randall
Dip Applied Chem, FAICD
NON-EXECUTIVE DIRECTOR

Malcolm has more than 46 years' of extensive experience in corporate, management and marketing in the resources sector, including more than 25 years with the Rio Tinto group of companies. His experience has covered a diverse range of commodities including iron ore, potash brine, uranium, mineral sands and coal ark.



Jim McKerlie

BA Economics (Hons), Dip Fin Mgt
NON-EXECUTIVE DIRECTOR

Jim has an extensive career as an international chief executive and as a public company director including Chairman of Drillsearch for 8 years and of Beach Energy. He has chaired four IPOs and has depth of experience in technology and energy sectors. He is a Fellow of both the Australian Institute of Company Directors and the Institute of Chartered Accountants.



Board Members & Management



Paul White

Master of Business Administration
NON-EXECUTIVE DIRECTOR

Paul has a track record of driving organisational performance and delivering superior outcomes in both corporate and board positions. He was the CEO of ASX-listed Brisbane Broncos until March 2021, a position he held for a decade. Prior to this, Paul gained substantial executive experience with global mining companies including Anglo American and Xstrata



Stephen Weir

B.Eng Hons (Mech), Grad Dip. Appl. Fin. SIA
CHIEF DEVELOPMENT OFFICER

Most recently Stephen was Managing Director at RFC Ambrian where he provided corporate finance advice over a twenty year period to clients in the mining and energy sectors. Prior to that his career spans construction management of high-speed bulk material handling equipment, minerals and coal processing (John Holland), project management of technology introduction, Equipment and Industrial Services (Brambles) and Project Finance (Bankers Trust).



Trevor Thomas
MEarthSci (Hons) MAIG, MAUSIMM
GENERAL MANAGER (GEOLOGY)

Trevor is a long-term employee of Magnetite Mines with over 14 years experience as an exploration and resource development geologist. Over 12 years, he has been responsible for the project management of technical studies for the PFS and prior Scoping Studies and was responsible for the delivery of the Project's maiden Ore Reserve, Mineral Resource estimates and acquisition of the Muster Dam Iron Ore Project.



