

Element 25 Limited Investor Update



Building a world-class Zero Carbon Manganese business

August 2022 – Diggers & Dealers Mining Forum

ASX:E25

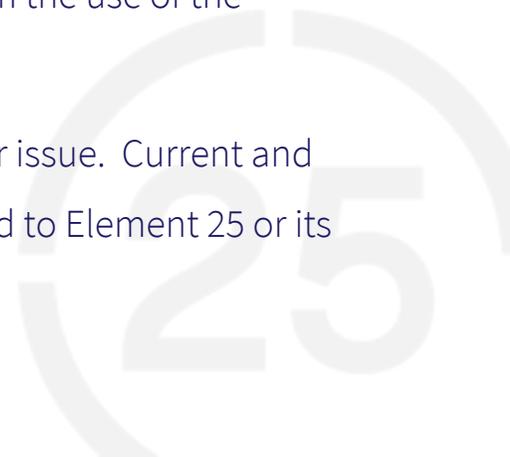
Disclaimer

This presentation contains only a brief overview of Element 25 Limited and its associated entities (“Element 25”) and their respective activities and operations. The contents of this presentation, including matters relating to the geology of Element 25's projects, may rely on various assumptions and subjective interpretations which it is not possible to detail in this presentation and which have not been subject to any independent verification.

This presentation contains multiple forward-looking statements. Known and unknown risks and uncertainties, and factors outside of Element 25’s control, may cause the actual results, performance and achievements of Element 25 to differ materially from those expressed or implied in this presentation.

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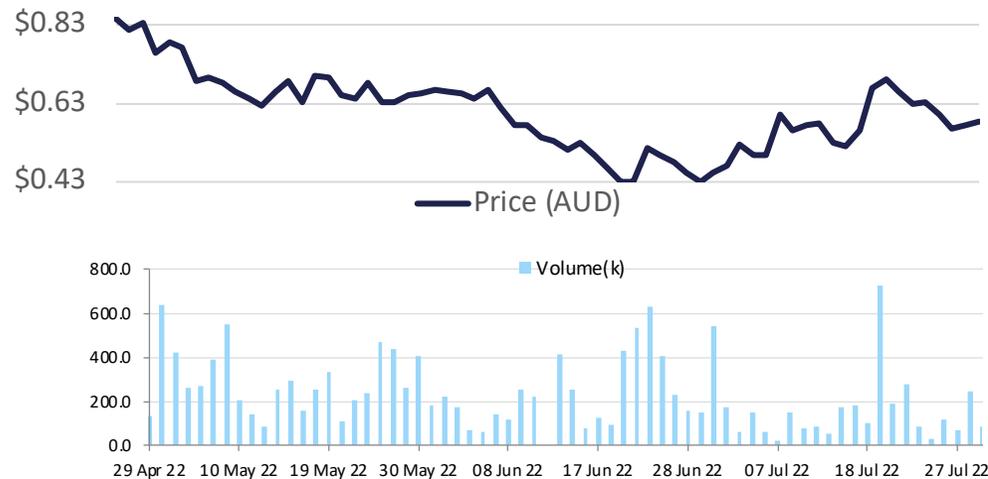
The information contained in this presentation is not a substitute for detailed investigation or analysis of any particular issue. Current and potential investors and shareholders should seek independent advice before making any investment decision in regard to Element 25 or its activities.



Introduction

Financial Information	
ASX Ticker	E25
Shares on Issue	153M
Share Price	\$0.54
Debt	Nil

3 Month Share Price and Volume



Introduction

Developing the world class **Butcherbird Manganese Project** in Western Australia to produce high quality **manganese concentrate** and **battery grade** High Purity Manganese Sulphate Monohydrate (**HPMSM**) products for traditional and new energy markets.



¹Reference: Company ASX release 17 April 2019. ²Reference: Company ASX Release 3 December 2020. ³Reference: Fraser Institute Annual Survey of Mining Companies, 2019, ⁴Reference: Company ASX Release 26 May 2021, ⁵Reference: Company ASX Release 16 June 2021

Experienced Owners Team – Knowledge Stays In-House



Seamus Cornelius
Chairman
Lawyer



John Ribbons
Non-Executive Director
CPA



Justin Brown
Managing Director
Geologist



Ian Huitson
Mining
Mining Engineering



Sias Jordaan
Marketing Manager
Accountant



Neil Graham
Development Manager
Chemical Engineer



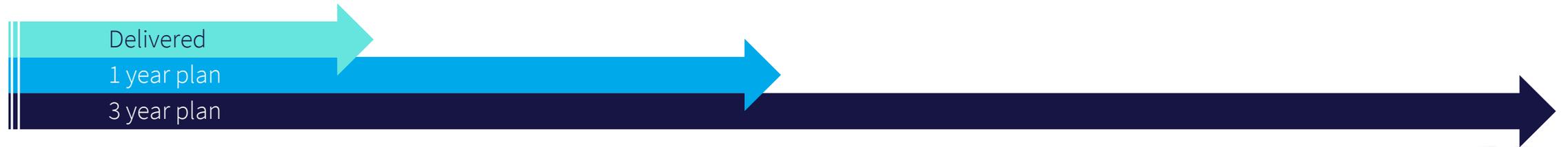
Michael Jordon
Chief Financial Officer
CPA



Les Middleditch
Study Manager
Mining Engineer

**Extensive in-house experience and expertise
supported by carefully selected external consultants**

Our Strategic Vision...



Cashflow
Low capital cost, rapid start up to establish E25 as a producer while minimising dilution.

Expansion
Improved resource utilisation, reduction in unit operating costs, increased operating cash.

The Prize
Position E25 as a globally dominant producer of high purity, sustainable manganese products.

Zero Carbon Manganese™
Best in class, zero carbon, ethically produced, scalable high purity manganese for global markets.

Not all manganese is created equal



Serving the Established...

- Manganese (**Mn**) is the fourth most used metal on earth in terms of tonnage.
- Used in steel, specialty alloys and aluminium products.
- Traditionally the market has been dominated by the steel and alkaline battery industries.
- There is no substitute for manganese in steel.
- **E25 manganese concentrate and EMM feed this market.**

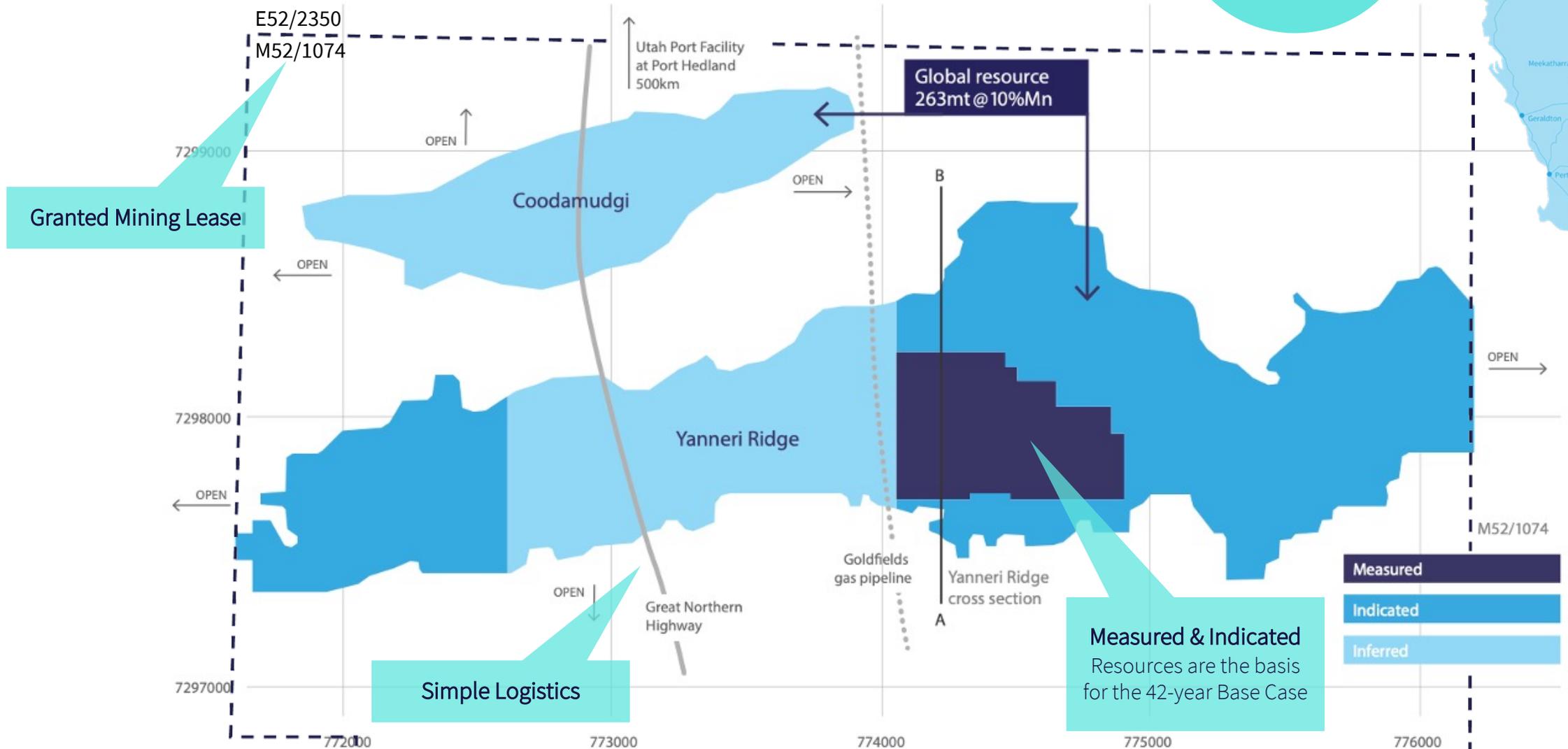
And the Emerging...

- The electrification of the global vehicle fleet requires vast amounts of cathode materials.
- Nickel and cobalt supplies cannot meet projected demand for new energy vehicle (NEV) growth.
- Batteries are trending toward higher manganese content for safer, more cost-effective solutions.
- **E25 high purity manganese will feed these markets.**



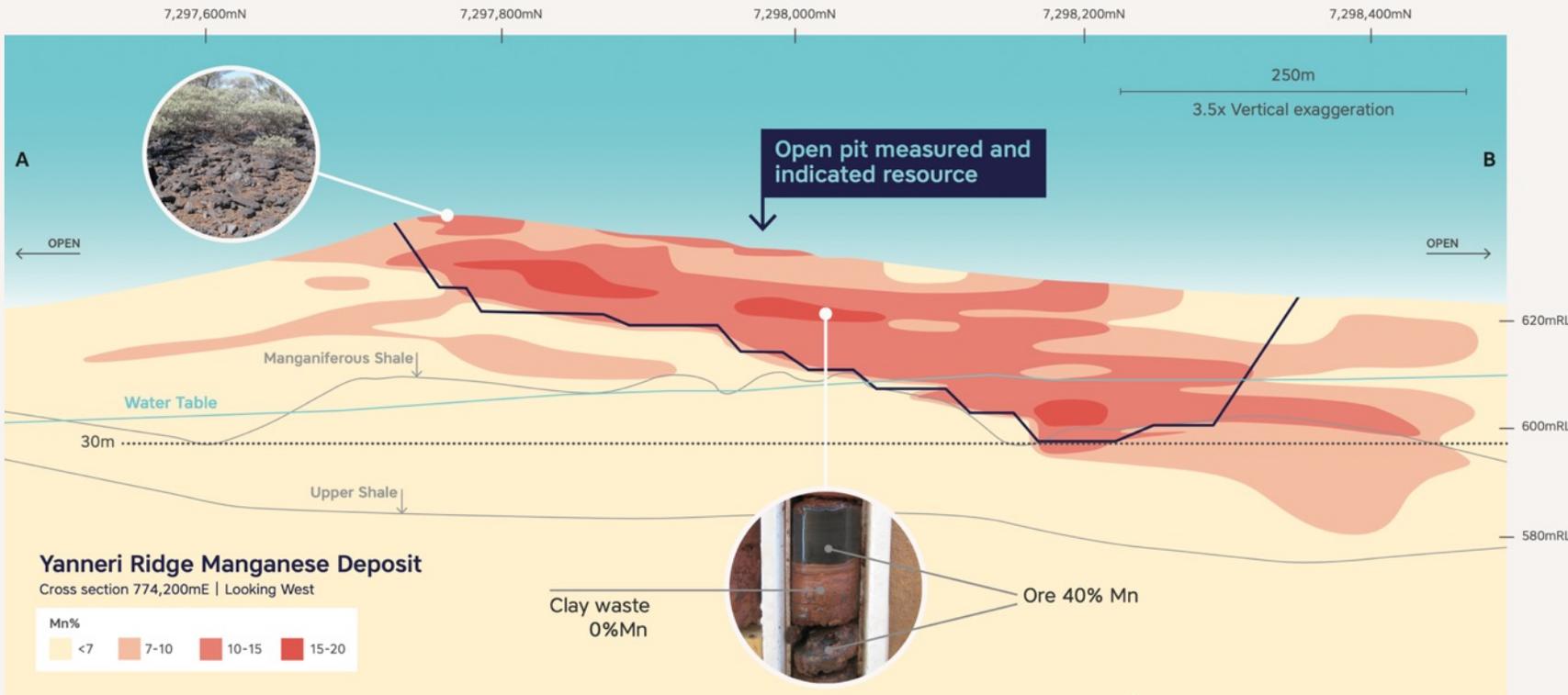
Great infrastructure endowment, fully permitted

100% E25 owned, long term tenure.



Very simple geology equals low-cost, low environmental impact manganese units

Classification	Tonnes (Mt)	Mn (%)	Contained Mn (Mt)
Resource	263	10.0	20.8
Reserve	50.6	10.3	5.22



RESOURCE GROWTH POTENTIAL

- Enough resource base for multi-decade long expansion pathway.
- Can produce concentrate, battery grade HPMSM and EMM without resource limitation.

ENVIRONMENTALLY BENIGN OPERATION

- Ore from surface
- No explosives required
- No waste water
- One reagent – water
- Extremely low levels of contaminants

Stage 1: Project Delivery Complete – Engineering Optimisation Progressing



ROM Stacks

Process Water Storage

Tails Storage

Main Access Road

Processing Plant

Ore Stockpiles
Feedstock for
HPMSM
conversion

Latest Quarterly Report – First Operating Cashflow Neutral Quarter Since Start-Up



66,000t

Mn concentrate sold



A\$11.8 million

Product sales



A\$20.8M cash

After receipt of funds in transit.



A\$0.83 million

Spend on new equipment

Solid Performance under challenging conditions:

- Unseasonal rainfall event in May (>100mm)
- Logistics costs (incl. shipping) remain high
- Diesel costs remain at record levels
- Labour market tightness persists

Foundational quarter of operations:

- Improved manganese price environment
- New processing equipment delivered
- Process modifications in progress
- Expecting improved operational outcomes

New Energy Vehicle (NEV) Demand Growing Strongly



58% by 2040

percentage of new vehicles that will be EV or hybrid



54 million

EV passenger sales by 2040



from 2033

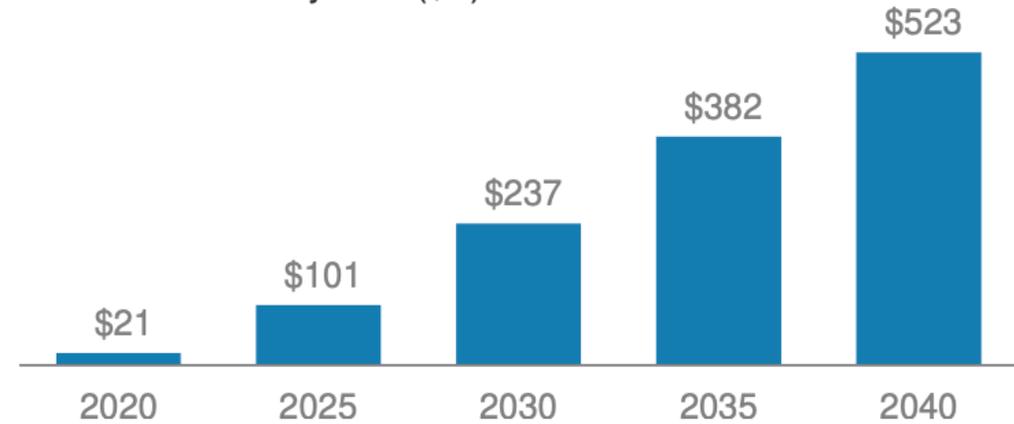
decline emissions from road transport



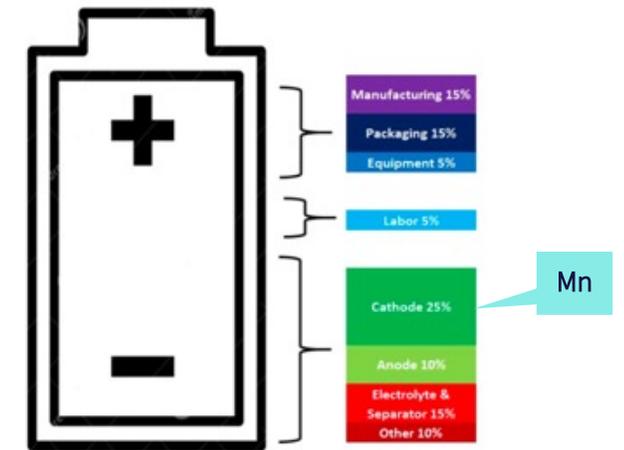
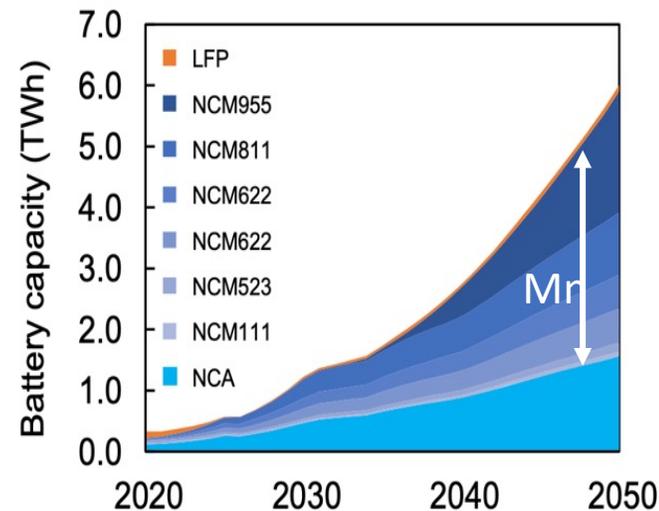
17.6M by 2040

barrels of oil displaced by EVs each day

Global EV Battery TAM (\$B)

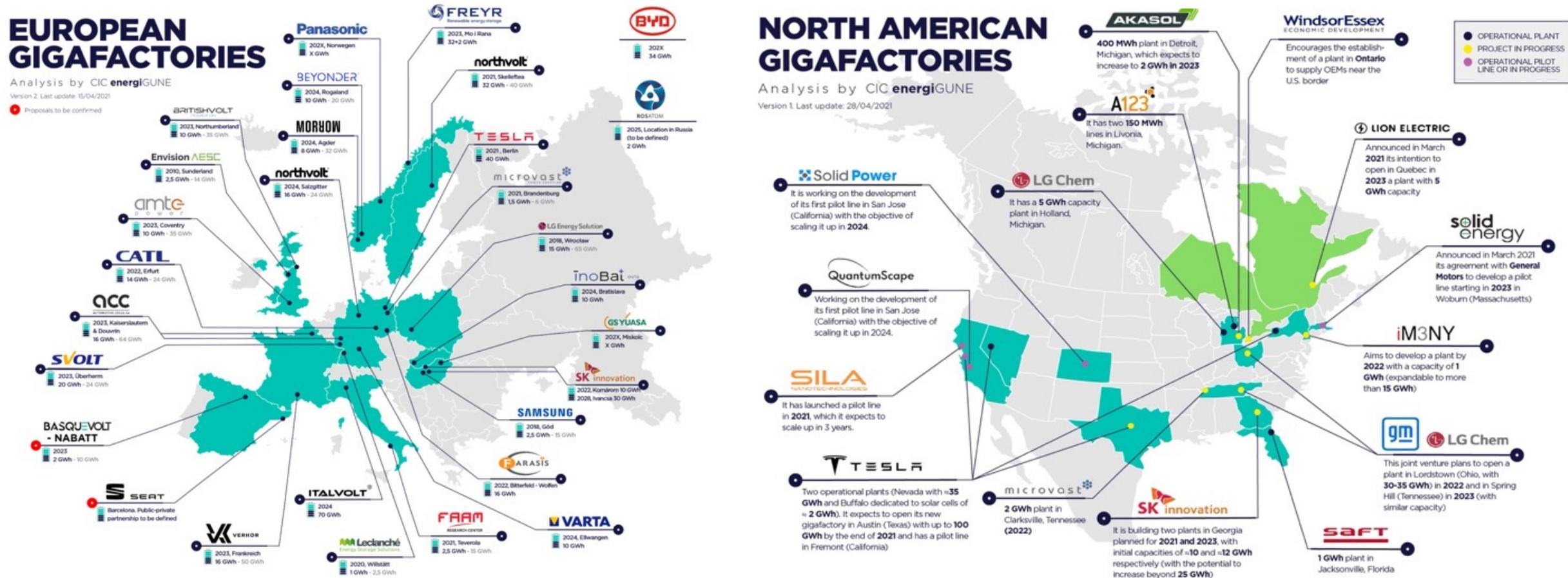


Source: Company data, Morgan Stanley Research



Market Response is Dramatic

The EV transition is no longer a concept, it is well underway and accelerating.



If not manganese, then what?

58% by 2040

percentage of new vehicles that will be EV or hybrid

54 million

EV passenger sales by 2040

from 2033

decline emissions from road transport

17.6M by 2040

barrels of oil displaced by EVs each day

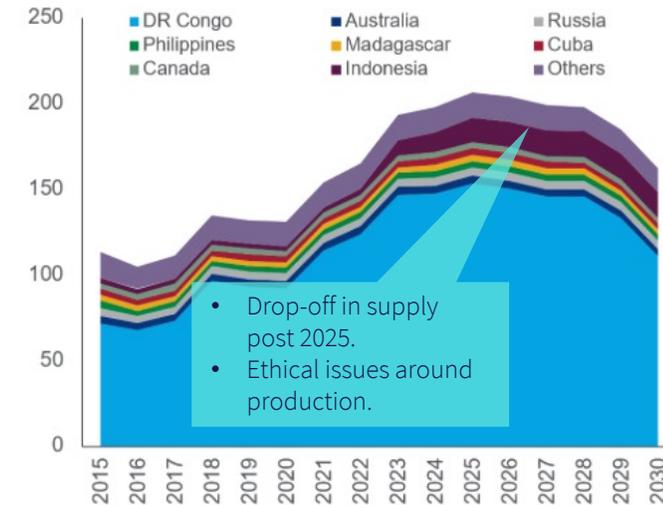
"We would like to get out of cobalt altogether and have a zero cobalt situation."

Doug Parks, GM Executive VP

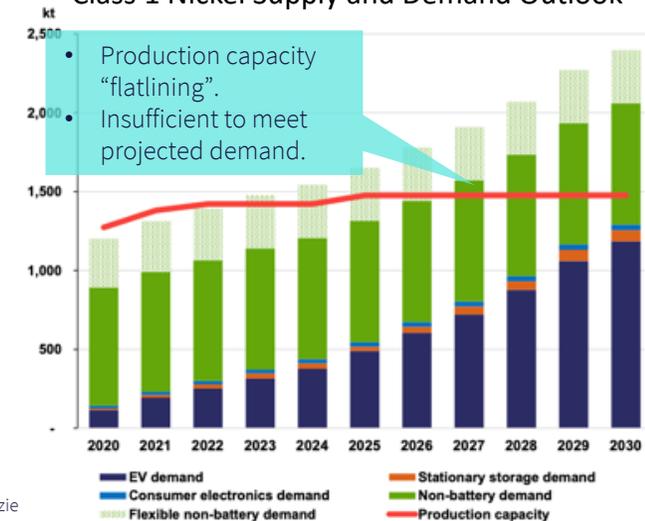
The Verge, December 2021

- Manganese is the cheapest, most abundant of the NMC cathode materials (Ni,Mn,C).
- Nickel and cobalt have supply constraints, manganese does not.
- For cobalt, there are serious ethical concerns around production methods¹.
- Manganese is perfectly placed to provide the material needed to satisfy the worlds hunger to electrify.
- **Battery makers have manganese rich cathode designs in their roadmaps post 2025.**

Global mined cobalt output (Kt)



Class 1 Nickel Supply and Demand Outlook

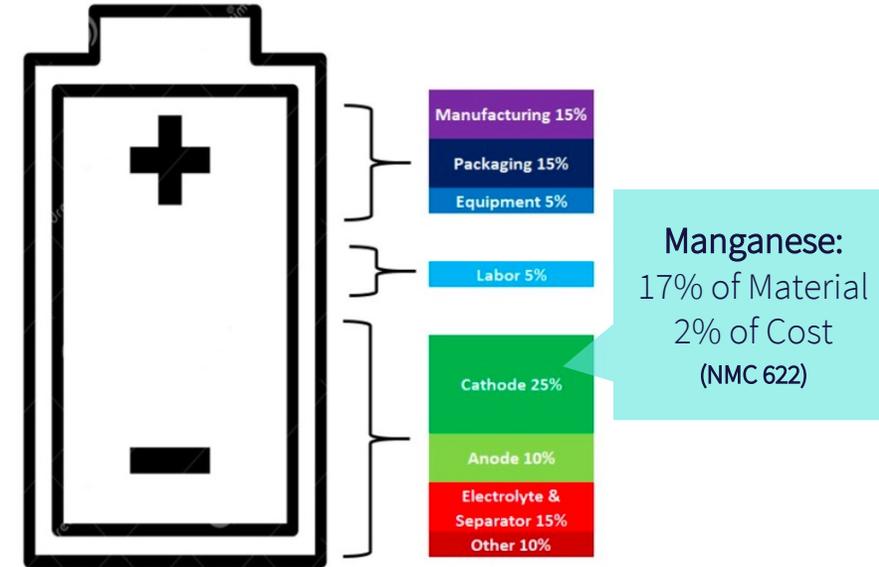


¹<https://www.visualcapitalist.com/ethical-supply-the-search-for-cobalt-beyond-the-congo/>

If not manganese, then what?



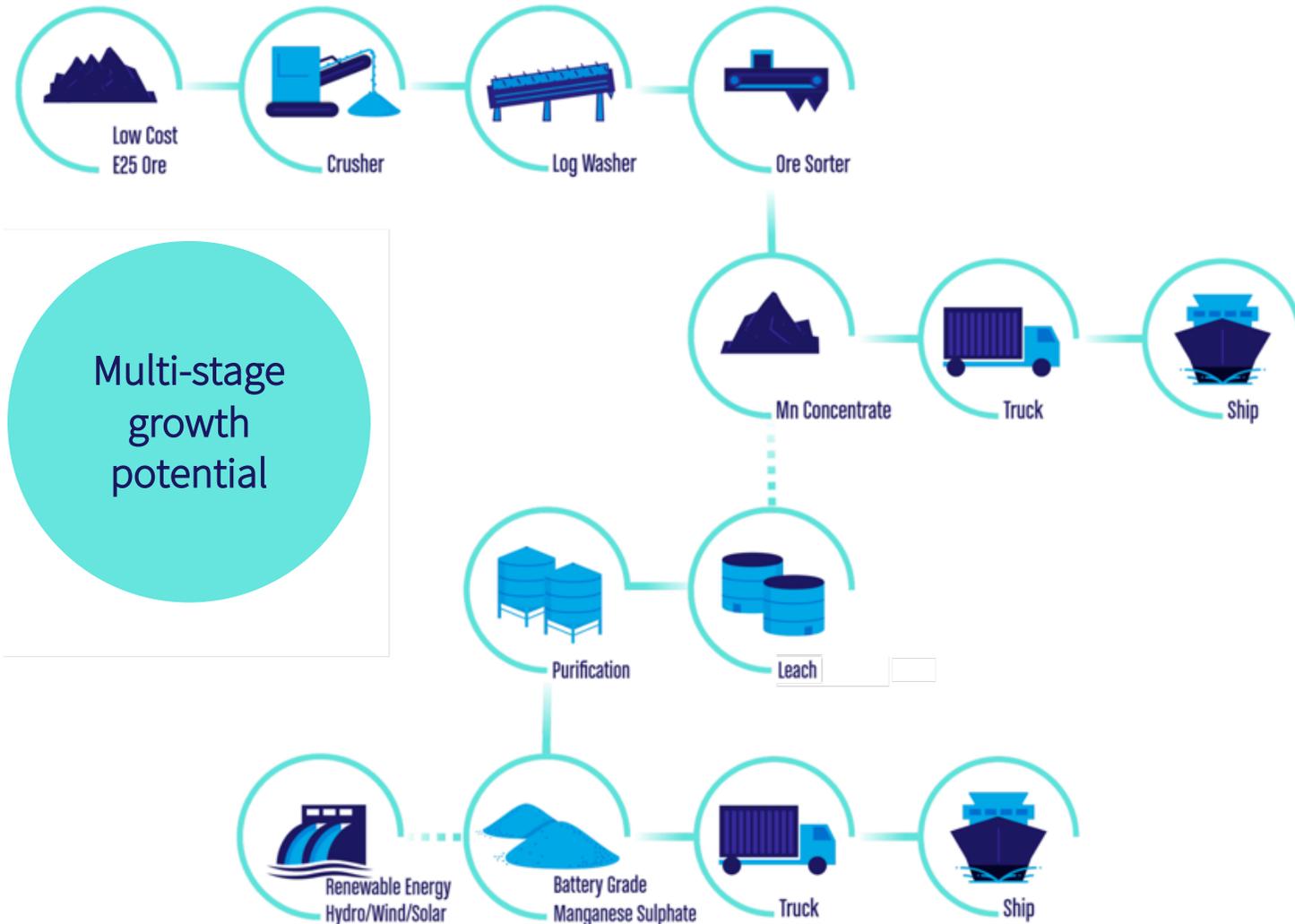
- VW, Tesla and Stellantis have announced moves to high **manganese** cathodes.
- High **manganese** means better energy density and lower cost.
- Transition will require large volumes of high purity **manganese sulphate (HPMSM)**.



High-manganese cathodes are considered one of the strongest candidates for the next generation of lithium-ion batteries because of their cost advantage, cobalt-free nature, and strong electrochemical performance,”

Roskill 2021.

Our Goal - Zero Carbon High Purity Manganese...



Stage 1

First production of manganese concentrate to sell to manganese alloy manufacturers

Stage 2

Expansion of the concentrate production to produce manganese feedstock to convert to $MnSO_4$

Stage 3

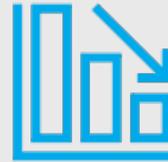
Establishing a conversion facility to convert the concentrate to battery grade HPMSM with renewable energy

Low cost, efficient HPMSM process – significant improvements...

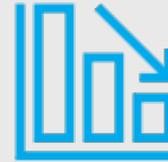
Problems with Current Technologies

- Large volumes of waste residues
- Toxic Reagents
- Inefficient
- Higher Cost
- Outdated processing technology

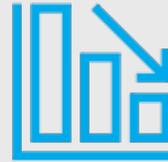
The Element 25 Process makes significant changes & improvements...



Reagents/Cost



Carbon Emissions



Waste Residue

Element 25 Process

- More efficient (fast kinetics, reduced energy)
- Minimises reagent requirements
- Reduced carbon intensity
- Lower volumes of waste residues
- Non-toxic residues may be able to be repurposed.



99.9%
MnSO₄

Conversion of concentrate to HPMSM – EV fuel, Scoping Study delivered...

- Compelling economics.
- Modular, multi-stage growth strategy.
- Volumes tailored to demand growth.
- Development strategy flexibility.
- Designed to capture EV transition value opportunity.

MnSO₄

50,000 t/a

expanding to 150ktpa over three expansion stages



A\$1.52 billion

NPV₈ post-tax



47%

IRR pre-tax

E25 is following a rapid growth strategy to become a globally significant HPMSM producer.



A\$200 million

capital cost including working capital



19 months

payback period
60:40 debt:equity



December 2024

commissioning
scheduled

Stage 3 Processing Location Optionality – Multiple Plant Potential



EU

KR

US

MY

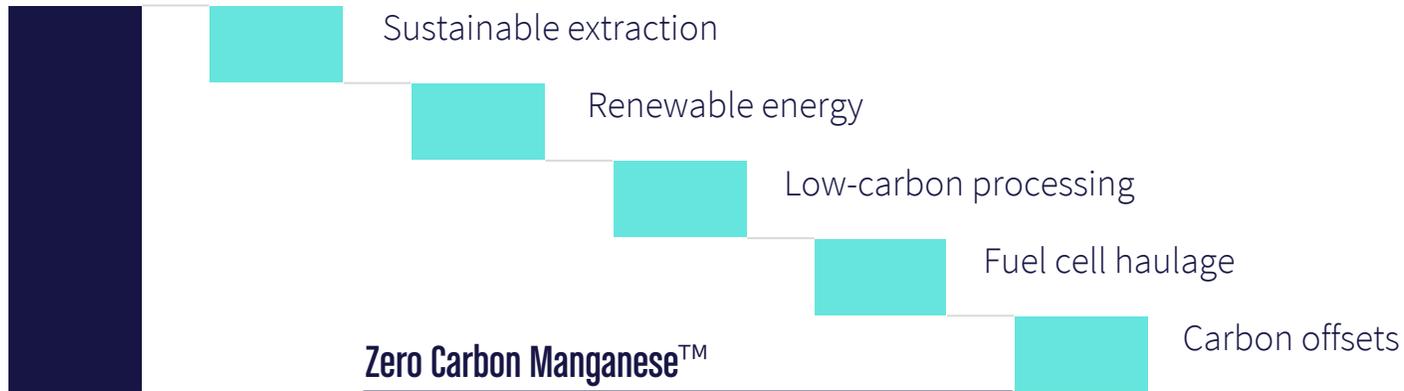
AU

Mn Concentrate Feedstock (33% Mn):
Up to 1M tonnes per annum manganese concentrate production planned at the Butcherbird Project in Western Australia.

- E25 manganese concentrate is a very stable, easily transported feedstock.
- Allows location optionality for the processing facility.
- Multiple potential sites being explored.

**Design One
Build Many**

Zero Carbon Manganese™ – ESG considerations integral to our thinking



Other potential pathways that Element 25 is investigating:

- Extensive wind and solar resource data set collected at site (>1 year)
- Energy modelling confirmed cost advantage with renewable solutions
- Green hydrogen powered mine fleet and bulk haulage
- Battery powered bulk haulage trucks to be made available in Australia late 2022¹
- Green hydrogen reduction reagent potential (similar to “Green Steel”)
- Supply chain transparency and ESG accounting
- Collaboration with other ESG focused companies to pursue new solutions

¹<https://www.gizmodo.com.au/2022/02/hydrogen-truck-melbourne/>

Sustainable Extraction



Renewable Energy
Powered Processing



New Energy Fuel



Partnering with Circular for Supply Chain Transparency & ESG Accounting



The First ESG Transparent Manganese Supply Chain

- Circular's platform will underpin real-time traceability of Element 25's (E25) manganese products. The partnership plays a critical role in E25's strategic pathway to Zero Carbon Manganese.
- Circular's platform will enable real-time, digital visibility of dynamic ESG metrics, including CO2 intensity and energy mix used, will be made available to downstream market participants, including offtake partners.



Batch unique identifier: 1437847

Your product is associated with a unique QR code that enables it to be tracked and verified.

Element 25

Manganese Sulphate

ESG metrics summary, January 2025

This is a digital summary of the ESG metrics attributed to the Manganese products received from Element 25 (ACN 119 711 929).



BAG IDENTIFICATION ID#1437847



Your product has been tracked using Circular's blockchain traceability platform, including relevant Element 25 ESG metrics and product specifications.

- 01 Jan, 2025
HPMSM Refinery
 - HPMSMR_1004000 - Goods-Out
 - HPMSMR_1003000 - End-Of-Production
 - HPMSMR_1002000 - Start-Of-Production
 - HPMSMR_1001000 - Goods-In
- 21 Dec, 2024
Mine
 - MIN_1001000 - Goods-Out



ESG METRICS AND SPECIFICATIONS

Weight

1t

Carbon intensity (t CO₂-e / t)

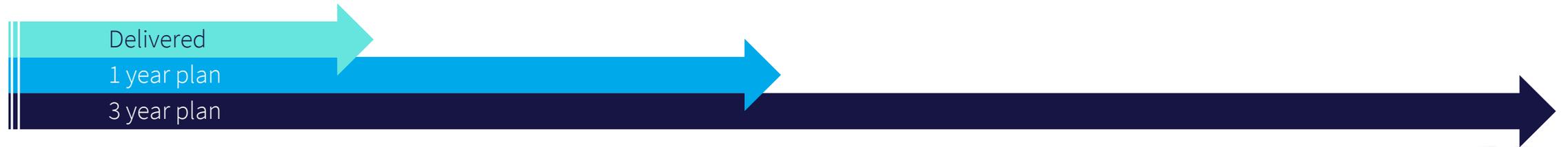
5.5t

Metal content

32%

TRACEABILITY
EXAMPLE

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Investment Summary

- ✓ Australia's largest onshore manganese deposit comprising >260 Mt of manganese ore in JORC resources
- ✓ Long mine life – 42 years using only 20% of the global resource, significant potential to expand with further drilling
- ✓ Simple mining and processing, a “wash plant”
- ✓ No blasting or dewatering required
- ✓ Strengthening performance of Butcherbird processing as E25 nears steady state commercial production
- ✓ Pathway to expand production to 1Mtpa Mn concentrate
- ✓ Expansion strategy includes the production of High Purity Manganese Sulphate (**HPMSM**) as EV fuel for Li-ion batteries



Thank you

Element 

For more information, please contact Element 25 Limited:

+61 8 6315 1400

admin@e25.com.au

www.element25.com.au

**Come & see
us at booth
#120**

ASX:E25

Reserves and Resources

Maiden Ore Reserve¹

Category	Tonnes (Mt)	Mn (%)	Contained Mn (Mt)
Proved	14.4	11.5	1.65
Probable	36.2	9.8	3.56
Total	50.6	10.3	5.22

Global Mineral Resource²

Category	Tonnes (Mt)	Mn (%)	Si (%)	Fe (%)	Al (%)
Measured	16	11.6	20.6	11.7	5.7
Indicated	41	10.0	20.9	11.0	5.8
Inferred	206	9.8	20.8	11.4	5.9
Total	263	10.0	20.8	11.4	5.9

- 89% conversion of measured and indicated resources to reserve.
- Maiden Reserve only exploits approximately 20% of global mineral resource.
- Excellent potential for future expansion.
- More drilling has potential to add to global resource.

¹Reference: Element 25 Limited ASX release dated 19 May 2020.

²Reference: Element 25 Limited ASX releases dated 17 April 2019.

Competent Person's Statement

The information in this presentation that relates to Exploration Results is based on information compiled by Mr Justin Brown who is a full-time employee of the Company and is a member of the Australasian Institute of Mining and Metallurgy. Justin Brown has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is 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'. Justin Brown consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

All references to Mineral Resources pertain to the ASX release dated 17 April 2019. The Company confirms that all material assumptions, underpinning the estimations continue to apply and have not materially changed.

All references to Mineral Reserves pertain to the ASX release dated 19 May 2020. The Company confirms that all material assumptions, underpinning the estimations continue to apply and have not materially changed.

For further information on Element 25 Limited and its Projects please visit its website at www.element25.com.au which contains copies of all continuous disclosure documents to ASX, Competent Persons' Statements and Corporate Governance Statement and Policies.

DISCLAIMER

The views expressed herein are not necessarily the views of the Australian Government, and the Australian Government does not accept responsibility for any information or advice contained herein.