Element 25 Limited Investor Update

Building a globally significant, low cost, high purity manganese project to supply high growth markets.

Investor Presentation – AIMEX Conference August 2019



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 a number of 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.



Corporate Overview

Element 25

Financial Information				
ASX Ticker		E25		
Shares on Issue		92M		
Share Price		\$0.19		
Market Capitalisation		\$17.5M		
Cash & Investments (at 30 June 2	~\$8.7M			
Debt		Nil		
Enterprise Value		~\$9M		
Board and Management				
Seamus Cornelius	Chairman			
Justin Brown	Managing Director			
John Ribbons	Non Executive Director			
lan Huitson	Study Manager			
Sias Jordaan	Marketing Manager			

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Share Price Performance



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The High Purity Manganese Market

Processing ore to to high purity chemical products, NOT manganese concentrate for bulk shipping.

HPMSM

EMM

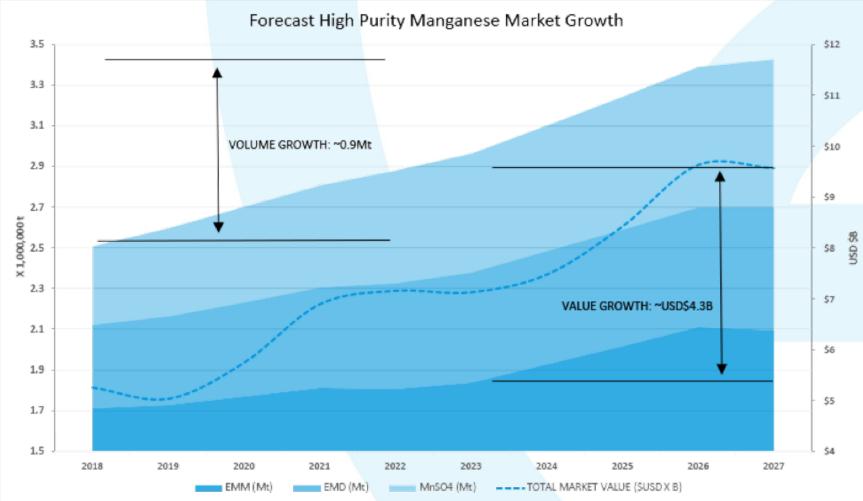
What is High Purity (Class 1) Manganese?



 Electrolytic Manganese Metal ("EMM") E25 Primary product Well understood Bankable 	 Used in series 200 SS and specialty alloys Largest market, ~1.8Mt or ~US\$4B annually, steady growth Chinese producers: lack of domestic ore = African ore = high costs Easy to market, simple offtake, predictable pricing, US\$2K-\$3K/t Forms the E25 base case to underpin debt finance E25 expects to be the lowest cost producer globally 	 ESTABLISHED DEMAND STEADY GROWTH EASY OFFTAKE MOST BANKABLE
 Battery Grade Manganese Sulphate E25 Secondary product New, fast growing market Huge blue sky upside potential Will increase exposure over time 	 Used in fertilisers and new energy NMC and LNMO batteries Small market, ~0.1Mt or ~US\$0.2B/a, BUT (very?) fast growth Currently produced by dissolving EMM Challenging to market for now, small parcels BUT highest price, US\$3.5-4K/t Market growth potentially 10 fold to 2030 E25 expects to be the lowest cost producer globally 	 NEW DEMAND HIGHEST GROWTH DIFFICULT OFFTAKE BANKABLE?



High Purity Manganese Market Forecast = Strong Growth



Reference: Metal Bulletin Commissioned Manganese Market Report April 2018



Competitor's Costs are Rising

China's competitiveness is being eroded by rising costs.



Chinese Producers are struggling to control costs...

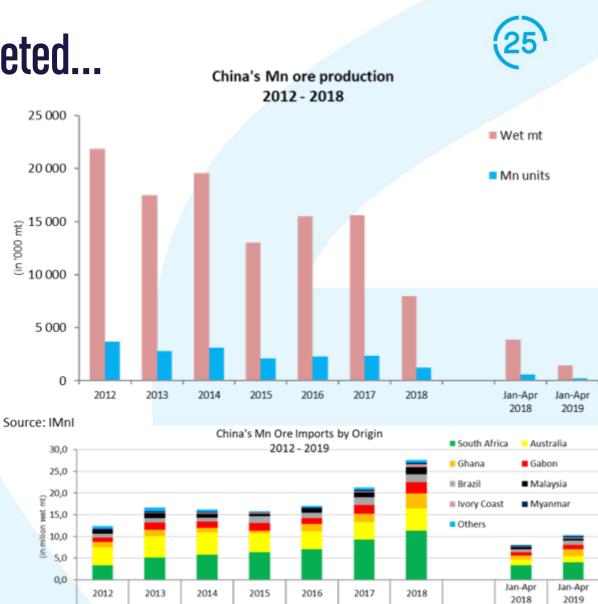
- Ageing infrastructure.
- Expensive African ore; local ores are depleted.
- Labour intensive processes.
- Difficulties sourcing labour and rising costs.
- Increasing power costs
- Complex logistics.
- Waste disposal and other environmental problems rife.





Chinese manganese mines are depleted...

- Local production is dropping YoY.
- Grades are declining YoY.
- Imports rising each year.
- Demand continues to grow.
- Ore costs are now the biggest cost driver for Chinese high purity manganese producers.
- Costs are rising in China.





World Class Manganese Resource

Australia's largest onshore manganese resource is ripe for development to produce high purity products, NOT manganese concentrate for bulk shipping. Multiple competitive advantages mean lower costs of production.

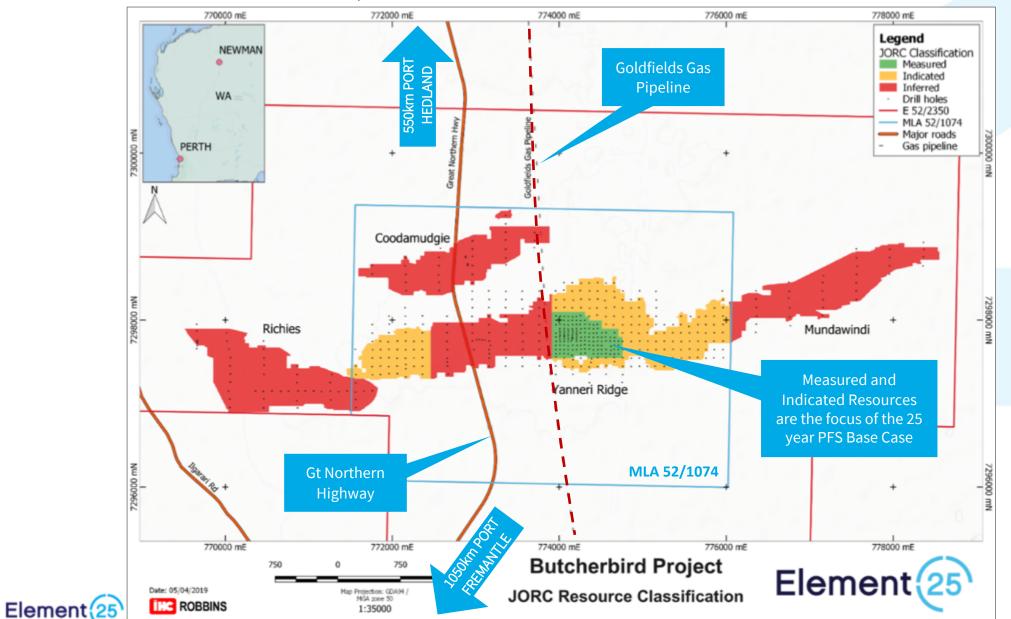
The Butcherbird Manganese Project

- Huge resource, currently >260 Mt of manganese ore in Measured, Indicated and Inferred JORC resources*.
- Excellent local infrastructure (**bitumen road and gas pipeline**).
- 100% owned by Element 25 Limited.
- Located in WA, a tier 1 mining jurisdiction.
- Very simple geology, no strip and free dig.
- Measured and Indicated resources are the focus of the 25 year PFS.
- Metallurgically process proven.
- Scoping Study completed, Pre Feasibility Study well advanced.



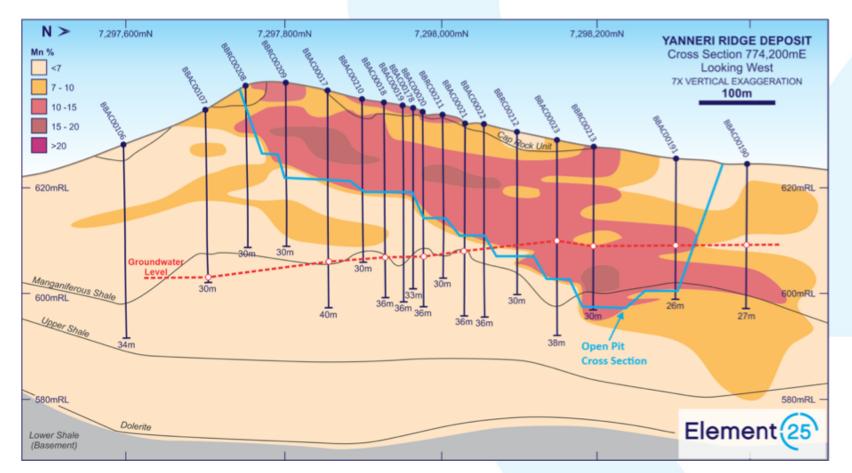


World Class Resource, Great Infrastructure Endowment



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Simple Geology





- Flat lying stratiform ore body, very simple geology.
- Ore zone starts at surface and is laterally continuous.
- No selective mining required.
- Low strip ratio of 0.2:1 based on preliminary pit optimisations.
- Ore zone is above the water table.
- Free dig with localised ripping.



Simple Logistics

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- Does not require bulk loading facility access.
- Product is transported in 1t bulker bags.
- Conventional road-haulage on the Great Northern Highway.
- Route is 100% bitumen, with year round access.
- Two port options via Fremantle (south) or Port Hedland (north).





A Lower Cost, Cleaner Processing Pathway

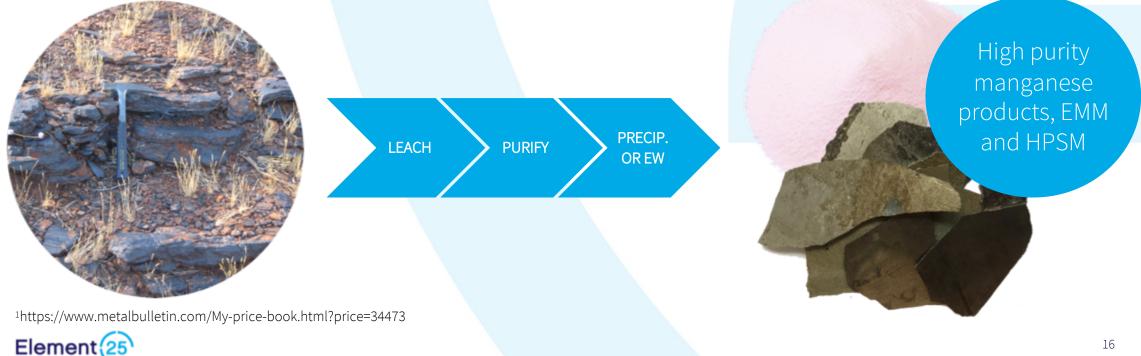
"Every once in a while, a new technology, an old problem, and a big idea turn into an innovation."

Dean Kamen, Inventor.

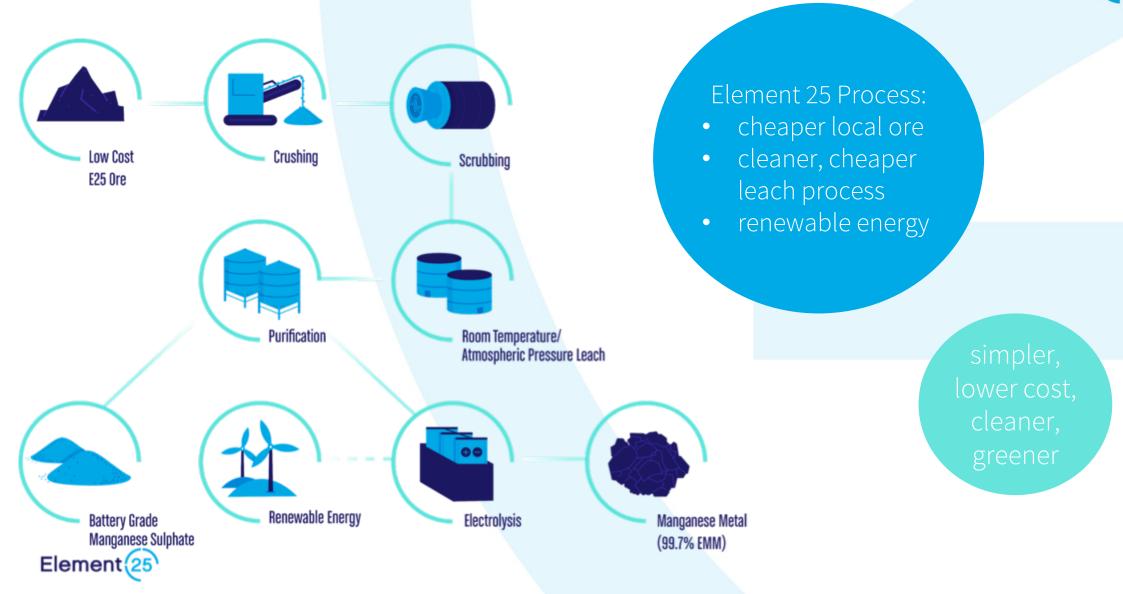
Breakthrough Technology



- CSIRO co-developed process produces high purity manganese with less energy and lower emissions.
- Products include high purity manganese sulphate ("HPSM") for NMC Li-Ion battery cathodes and Electrolytic Manganese Metal ("EMM") for specialty steels.
- These are high value products. Electrolytic Manganese Metal (EMM) >USD\$2,000/t¹.



Element 25 Uses a Simpler, Lower Cost, Cleaner Process



Energy Solution: Gas, Wind or Solar

"Research from Morgan Stanley estimates that renewables will be the cheapest source of power in the world in less than three years."

Business Insider Australia, 8 July 2017.

Electrowinning Metals is Energy Intensive

- Making metal through electrolysis involves passing a current between a cathode and anode through a pregnant liquor.
- Under the right conditions, metal is plated on the cathode.
- Making manganese metal (EMM) takes approximately
 6.5MWh/t of metal produced.
- Electricity to power the cell house is the largest single cost in making EMM at Butcherbird.
- A cost effective power solution is critical.





Renewable Energy - Lower Emissions and Getting Cheaper





Wind turbines cost trend²¹

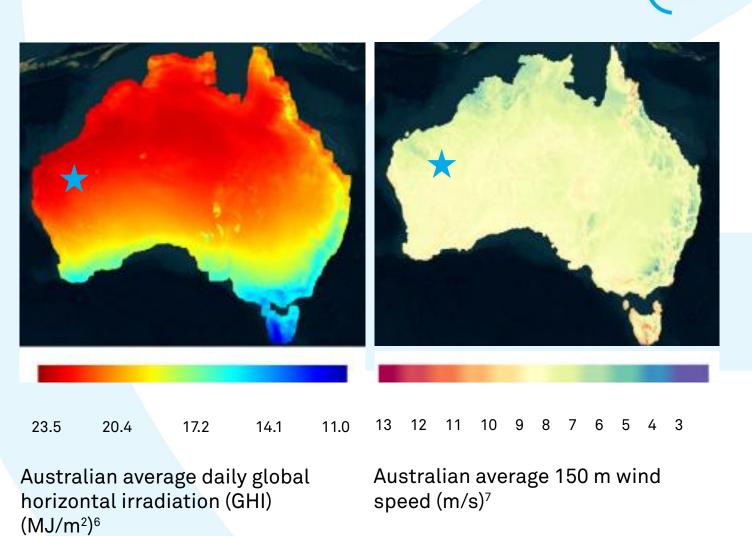


Solar PV modules cost trend¹⁹

Reference: ARENA, 2018: Hybrid power generation for Australian off-grid mines.

Wind/Solar Resource

- Much of Australia has good wind and solar resources.
- The southern Pilbara has good solar and wind.
- An ideal region for hybrid generation.



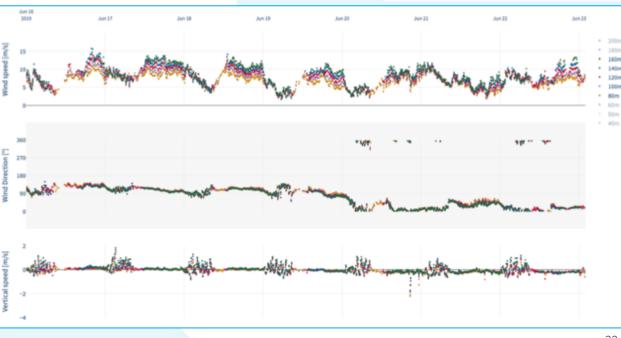


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Wind/Solar Resource Mapping

- Real-time wind and solar data being collected at site via Triton SODAR.
- Ten minute sampling interval.
- Multiple sampling heights from 40-200m.
- Data collection to be ongoing through PFS and DFS.

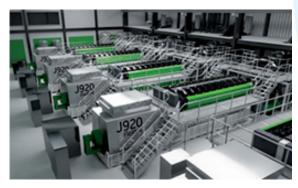








Energy Optionality Allows for Optimal Energy Mix







Gas generation:

- Reciprocating gas engines/turbines
- Cost effective base case power solution
- 100% gas power assumed in the Scoping Study

Wind turbines:

- Competitive Levelised Cost Of Energy ("LCOE")
- Long mine life supports favourable PPA terms
- Protection from gas price changes

Solar photovoltaics:

- Competitive LCOE
- Offsets lower daytime wind speeds
- Assists in smoothing the renewable power supply

EMM EW consumes ~6.5 MWh/t of electricity



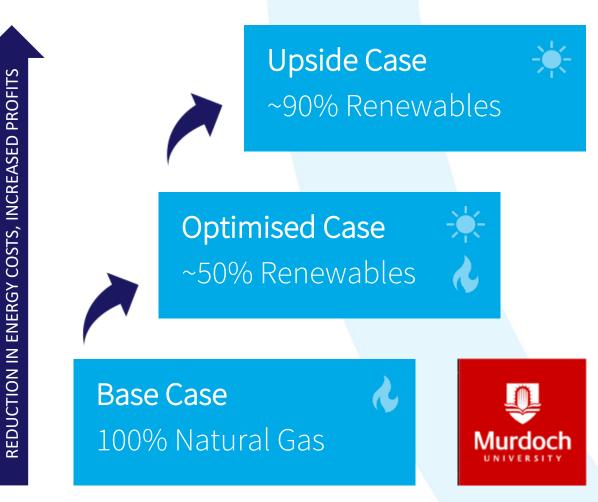
Expected energy mix is 50% wind and solar plus 50% gas, halving emissions and reducing cost over gas only*



*Subject to final PFS modelling

Making Metals with Renewables - IDE





INTERMITTENT DYNAMIC ELECTROWINNING

- Optimising electrowinning process to utilise dynamic energy supply.
- Finding the limits on key variables such as voltage, current density, solution chemistry.
- Designing management systems to use dynamic energy while maintaining quality.
- Co-funded to \$490K by the Australian Renewable Energy Agency ("**ARENA**").



Exporting Renewable Energy as Metals?

- Renewable energy powered electrowinning of metals embeds the renewable energy into the product for export.
- Technology potentially applies to a range of commodities including manganese, copper, lead, zinc, nickel etc.
- Positions Australia to become a leader in renewable energy exports.
- A viable alternative/adjunct to hydrogen exports which are currently a hot topic? Why not?

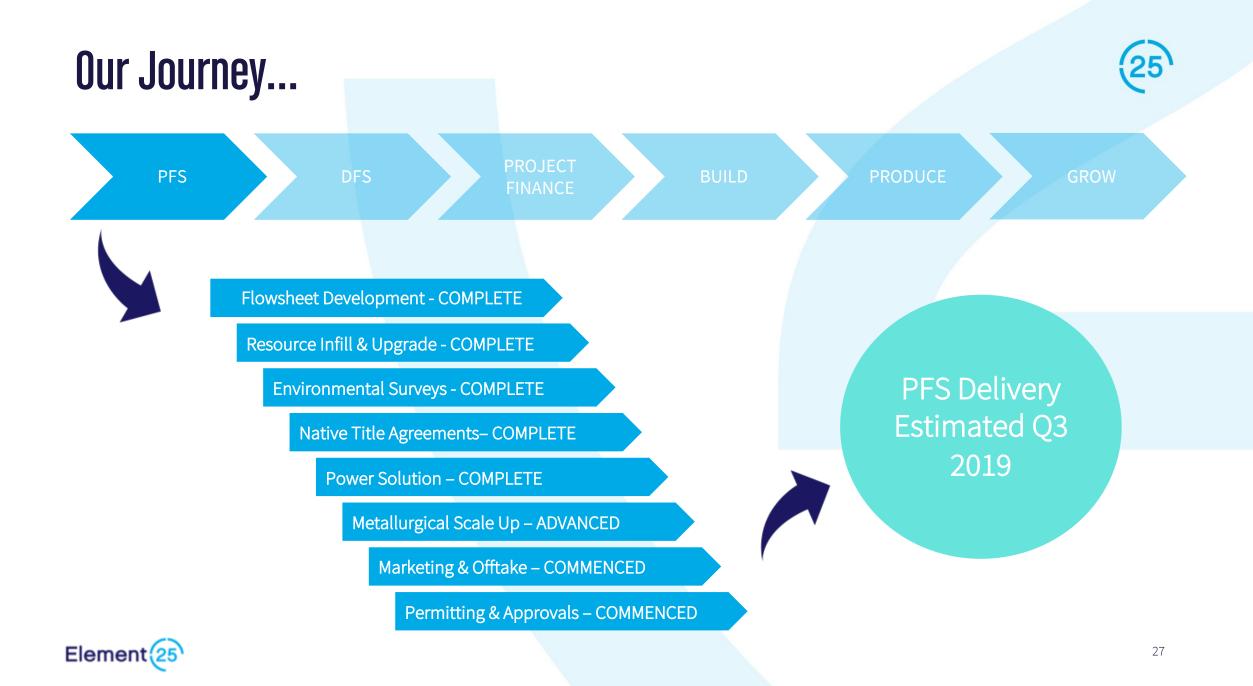






Next Steps for Element 25?

Scoping Study complete and positive. What is the pathway to development..?



A Strong Team...

- An experienced owner's team for core disciplines.
- Experienced industry partners for specialist skill sets.
- All bases covered.
- Owner's team will grow as the project progresses.



Worley Group



Lycopodium

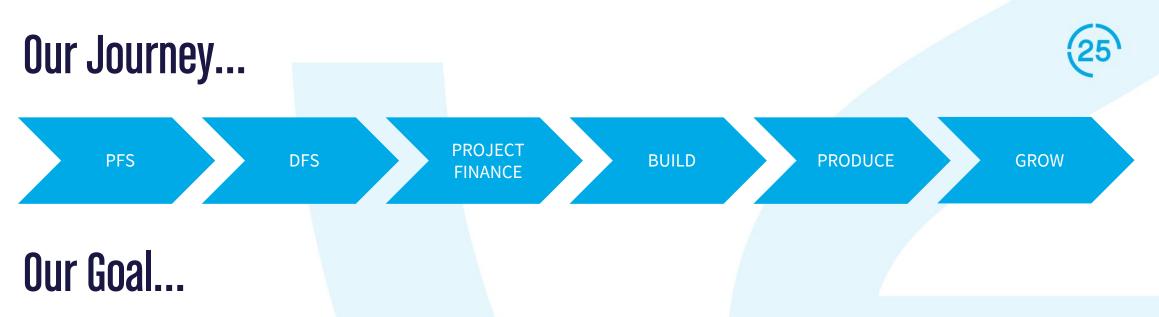
Advisian



Murdoch

ALS





- Produce the cleanest, greenest manganese products globally.
- Become a globally significant high purity manganese producer.
- Achieve best in class quality and cost profile.
- Operate ethically and sustainably in a Tier 1 jurisdiction.
- Generate strong sustainable investor returns over the long term.





Thank you.

For more information, please contact Element 25 Limited: +61 8 6315 1400 admin@e25.com.au www.element25.com.au















Appendices





Competent Person's Statement



Note: The information in this presentation that relates to Exploration Results, Exploration Targets and Mineral Resources 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.

Please note with regard to exploration targets, the potential quantity and grade is conceptual in nature, that there has been insufficient exploration to define a Mineral Resource and that it is uncertain if further exploration will result in the determination of a Mineral Resource.

All references to Mineral Resources pertain to the ASX release dated 16 April 2019. 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.



World Class Manganese Resource



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

- Significant potential remains to increase the resource with further drilling.
- Scale of development not resource constrained.

Resource is not closed off and can be extended.

Reference: Element 25 Limited ASX release dated 17 April 2019.

