

New Technologies and Manufacturing ASM - Independent Supplier of Critical Metals

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Competent Person

Unless otherwise stated, the information in this presentation that relates to mineral exploration, mineral resources and ore reserves is based on information compiled by Mr D I Chalmers, FAusIMM, FAIG, (director of the Company) who 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 Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Ian Chalmers consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears. Mr Chalmers is a shareholder of Australian Strategic Materials Limited.

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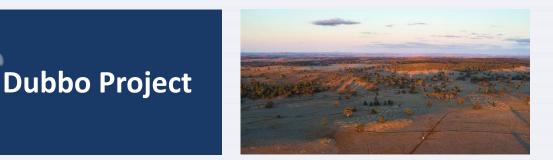
- Critical Materials Essential For New Technology
- Critical Material Supply
- **Critical Materials Demand**
- An Emerging Integrated Metals Supplier
- **Dubbo Project Optimisation**
- Evolution of ASM's Metals Business
- **Potential Timetable**

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ASM's Focus – Next 6 Months



ASM – Mine to Manufacturing



- Key products defined
- Flowsheet optimised to deliver key products, with potential at a lower capital and operating costs with increased revenue
- Envisioned to be "net zero carbon"



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- Ownership of a novel patented metallisation process
- World class Ziron Tech R&D team focused on new materials for emerging technologies
- Developer/preferred partner of innovative materials processing



- Enables preferred partnerships of metal production
- Delivered a new business unit on Titanium metal / metal powder business
- Enables the integration into global markets through boutique metal plants strategically located

Critical Materials – Essential for New Technology



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Growth - 3.4M to 25.3M EV cars by 2030

Source: Deloitte Insight – Electric Vehicle: Setting a course for 2030

Wind turbines – ~ 195kg of Nd/MW

Defence / Aerospace





Forecast 7.9% annual growth - 2020 to 2024

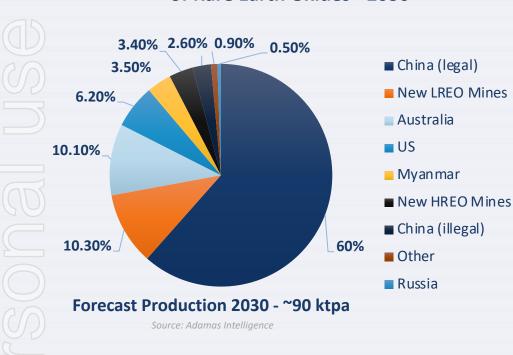
Jet turbines, GPS, defence systems

Source: EU's Joint Research Centre

Critical Materials Supply – Snap Shot

- I. Production of oxides, metals and metal powders highly concentrated
- 2. Suppliers of concentrates and oxides receive discounted Realised Pricing

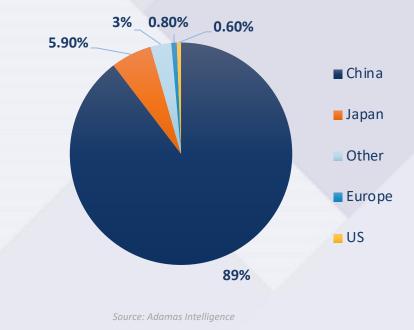
3. Metals and Powders integrated within manufacturing sectors where additional value is gained.



Projected Regional Production

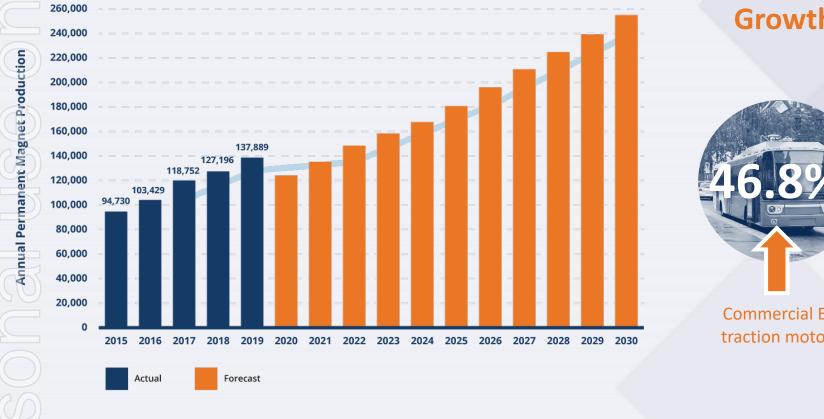
of Rare Earth Oxides - 2030

Projected Regional Manufacturing of Permanent Magnets - 2030

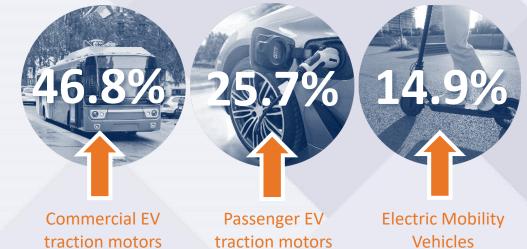


Critical Materials Demand - Rare Earth Magnets

Electric vehicles will consume 1t out of 4t of permanent magnets globally by 2030



Growth Rare Earth Permanent Magnets to 2030



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ASM – An Emerging Independent Critical Metals Supplier



Dubbo Plant Optimisation

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Defined Dubbo products	
Optimised flowsheet	
Potential improved project financial returns	





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Ziron Tech - Innovation – Technology - Value

ASM has 95% interest in Ziron Technology Corporation (Ziron Tech)

ASM owns the pilot plant and all IP related to the metallisation process







ASM's Integrated Metals Business

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Rare Earths	 Long term stable, secure, and sustainable supply; Potential to provide strip metal alloy for permanent magnets; Potential to be part of a permanent magnet solution
B Titanium	 Independent, lower cost, environmentally responsible supply Independent business that provides titanium metal, metal alloys and powders Potential to integrate into 3D manufacturing
Critical Metals	 Supply zirconium and hafnium metal for present and future demand Supplier of Niobium Metal Independent supply of critical metals

Global Independent Metals Producer



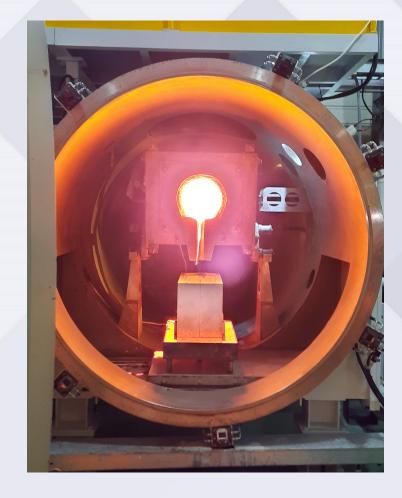
Potential Timetable – Sustainable, Secure & Stable Supply



ASM Focus – Next 6 Months

Complete optimisation of the Dubbo Project Progress Offtake and Strategic Partner discussions Progress EPC / EPCM Financing Progress Korean metal plant Progress financing of the Dubbo Project

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Dave Woodall ASM Managing Director





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Dubbo Project Resources & Reserves

Dubbo Project – Mineral Resources

Resource Category	Tonnes (Mt)	ZrO₂ (%)	HfO₂ (%)	Nb₂O₅ (%)	Ta₂O₅ (%)	Y ₂ O ₃ (%)	TREO* (%)
Measured	42.81	1.89	0.04	0.45	0.03	0.14	0.74
Inferred	32.37	1.90	0.04	0.44	0.03	0.14	0.74
Total	75.18	1.89	0.04	0.44	0.03	0.14	0.74

*TREO% is the sum of all rare earth oxides excluding ZrO_2 , HfO_2 , Nb_2O_3 , Ta_2O_5 , Y_2O_3 ,

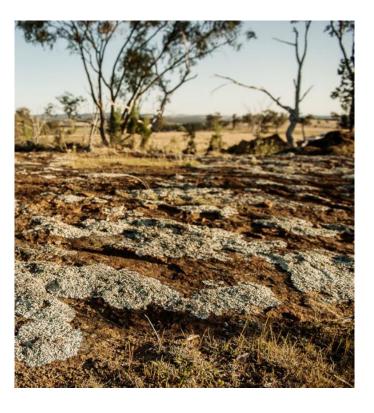
Dubbo Project – Ore Reserves

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Reserve Category	Tonnes (Mt)	ZrO₂ (%)	HfO₂ (%)	Nb ₂ O ₅ (%)	Ta₂O₅ (%)	Y ₂ O ₃ (%)	TREO* (%)
Proved	18.90	1.85	0.04	0.440	0.029	0.136	0.735
Total	18.90	1.85	0.04	0.440	0.029	0.136	0.735

*TREO% is the sum of all rare earth oxides excluding ZrO₂, HfO₂, Nb₂O₃, Ta₂O₅, Y₂O₃,

Note: Full details including Competent Person statements can be found in the ASX announcement 29 July 2020 (Information Memorandum & Demerger Booklet) and in the Company's Annual Report (ASX release 7 October 2020) - the Company confirms that all material assumptions and technical parameters underpinning the estimated Mineral Resources and Ore Reserves, as disclosed continue to apply and have not materially changed. The Company also confirms that the form and context in which the Competent Person's findings are presented have not been materially modified.



Corporate Profile

	Conital Structure	
	Capital Structure	
	Ordinary Shares	119.05 million
C	Share Price (1 December 2020)	A\$4.18
	Market Capitalisation	A\$497.63
	52 week low/high	A\$0.84/\$4.25
	Cash (30 September 2020)	A\$16.5M
	Enterprise Value	A\$481.13M
	Average Daily Turnover (3 Months)	A\$1.75 million

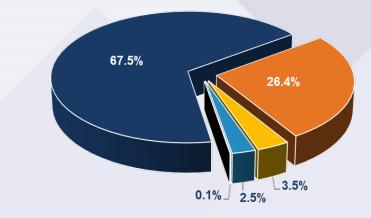
Experienced Board and Management Team focused on delivering:

Development of the Dubbo Project

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Production of high purity metals direct to customers Integrate further in the critical metals value chain





- Hedge Funds
- Retail & Others
- Directors & Management
- Foreign Institutions
- Domestic Institutions