

A Fully Integrated and 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.



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ASM – Emerging Metal Producer



ASM (Mine to Manufacturer) Metallisation in Korea

products direct to end users

Non-Chinese producers

Oxides mostly sent to **China and Japan**

Non-Chinese producers

Concentrates & Carbonates mostly sent to China

ASM provides:

- Full value captured along supply chain (no discounting)
- **Total Supply Chain Solution** geopolitical and process risk mitigation.
- Flexibility Grow oxide production (Dubbo expansion) and metal processing (metallisation plants across the world)



ASM – Mine to Manufacturing

Dubbo Project



- 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"

Ziron Tech



- 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

Metal



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



Critical Materials – Essential for New Technology

Electric Vehicles - ~5kg
Rare Earth Permanent Magnets

Wind turbines – ~ 195kg of Nd/MW

Defence / Aerospace



Growth - 3.4M to 25.3M EV cars by 2030

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



Forecast 7.9% annual growth - 2020 to 2024



Jet turbines, GPS, defence systems

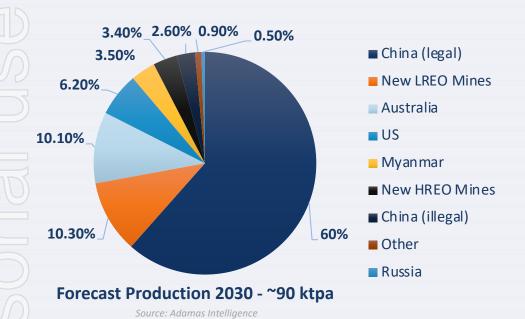
Source: EU's Joint Research Centre



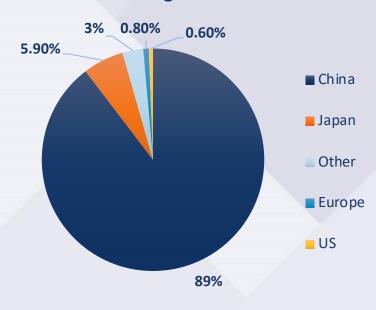
Critical Materials Supply – Snap Shot

- 1. 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 Manufacturingof Permanent Magnets - 2030

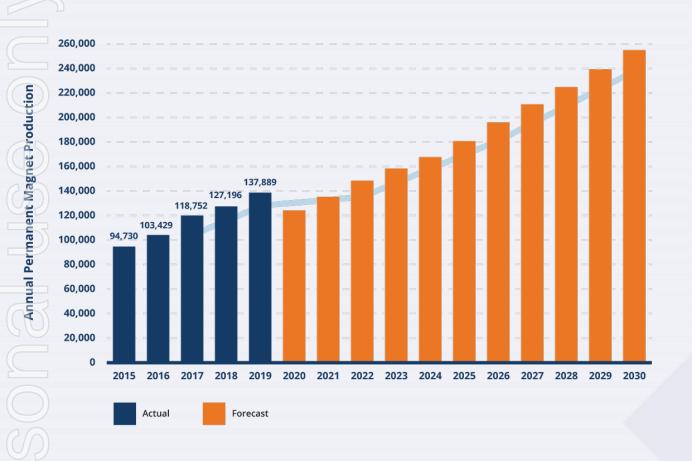


Source: Adamas Intelligence

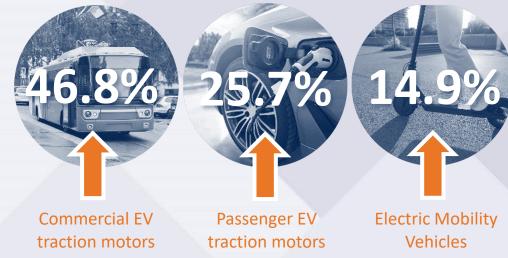


Critical Materials Demand - Rare Earth Magnets

Electric vehicles will consume 25% of permanent magnets globally by 2030



Growth Rare Earth Permanent Magnets to 2030





ASM – Fully Integrated Producer of Critical Metals



Present Producers and Developers	ASM Delivers
ROW Producers deliver lower value carbonates and separated oxides into market	✓ Fully integrated - All Dubbo products converted to metal.
90% of the conversion to metal achieved by Chinese rare earth refiners	✓ Only fully integrated commercial producer of metals, alloys and powders direct to End Users
 Value realised by end users and not the producers of carbonates and separated oxides 	✓ ASM value realised by the Environment, Communities, and Shareholders

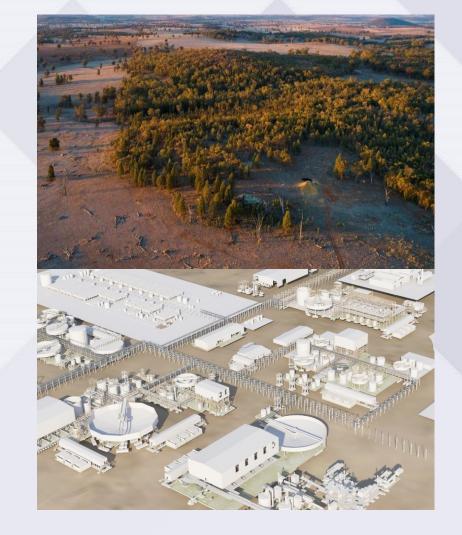


Dubbo Plant Optimisation

On Time and Budget for completion in Q1 2021

Flowsheet simplified and optimised

Potential improved project financial returns



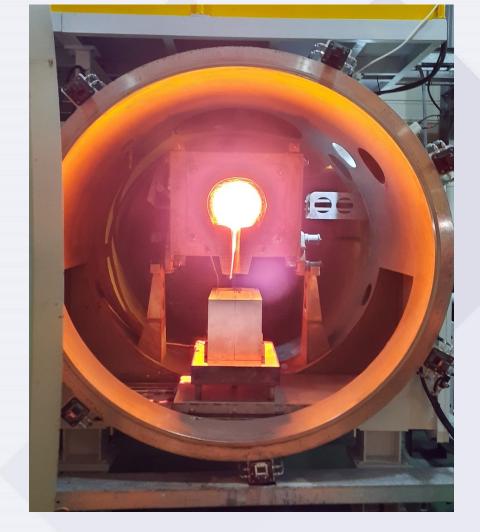


Ziron Tech - Innovation - Technology - Value

ASM has 95% interest in Ziron Tech)

ASM to expand pilot plant
All Metallisation IP owned by ASM

Proven Commercial Metal Production Ti, CuTi, Ti powder, Nd, Pr, NdPr, NdFeB, Dy





ASM Integrated Metals Business

Rare Earths

- Long term stable, secure, and sustainable supply
- Deliver strip metal alloy for permanent magnets direct to end user
- Opportunity to be part of a permanent magnet solution

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



A Global Independent Integrated Metals Producer

Complete Korean Metal Plant Scoping Study

Complete Detailed Engineering
Commence 1,000kg NdFeB alloy sample

Develop a Korean 5,200t metals facility

(Ti metal, NiTi, Cuti, Ti Powder, NdFeB alloy, and Dy)





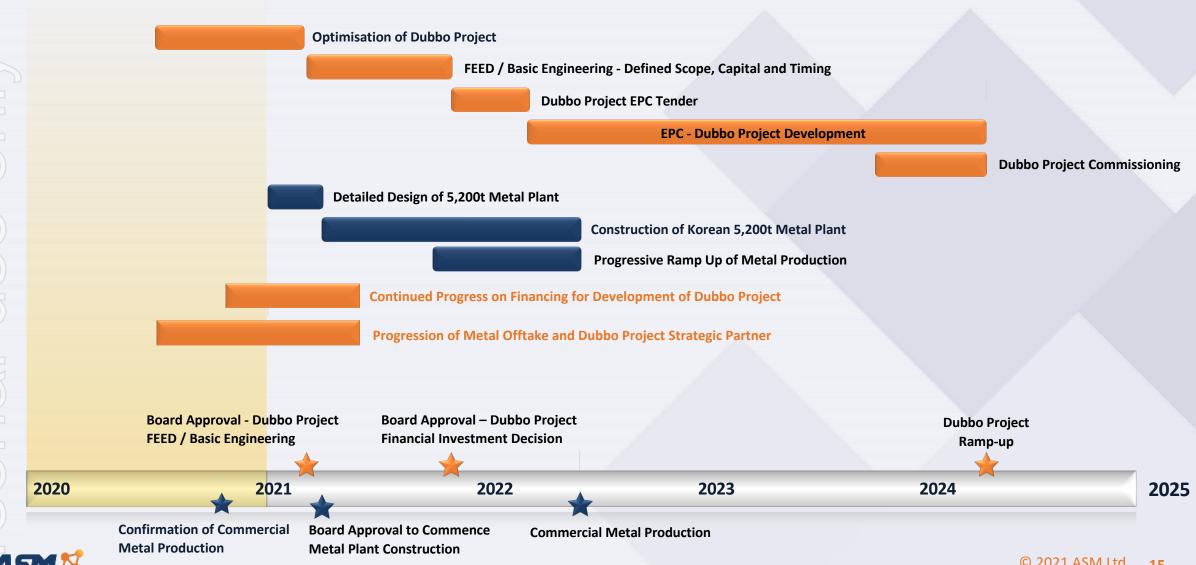
ASM Focused on Delivery

Delivered

- Acquired 95% of Ziron Technology Corporation (Ziron Tech)
- Produced high-purity zirconium metal powder, titanium copper alloy, ferroneodymium, neodymium iron boron (NdFeB) magnet alloy
- Korean Atomic Energy Research Institute (KAERI) confirmed de-hafniated zirconium metal meets Korean market requirements
- Agreement with Dongkuk Refractories & Steel signed to design, develop, assemble, install and verify a 250kg/day commercial plant



Potential Timetable - Sustainable, Secure & Stable Supply



ASM Focused on Delivery – Next 6 Months

Planned

- Optimisation of the Dubbo Project on target end of Q1 2021
- Scoping study complete on Korean Metal Plant
- Detailed Engineering of Korean Metal Plant commenced
- Continued progress on discussions;
 - With metal offtake and strategic partners
 - With Key Korean Government departments
 - With large Korean EPC / EPCM companies on development and financing of Dubbo
 - On financing of the Dubbo Project





Dave Woodall

ASM Managing Director





Dubbo Project Resources & Reserves

Dubbo Project – Mineral Resources

Resource Category	Tonnes (Mt)	ZrO₂ (%)	HfO₂ (%)	Nb₂O₅ (%)	Ta₂O₅ (%)	Y₂O₃ (%)	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 ZrO₂, HfO₂, Nb₂O₃, Ta₂O₅, Y₂O₃,

Dubbo Project – Ore Reserves

Reserve Category	Tonnes (Mt)	ZrO ₂ (%)	HfO ₂ (%)	Nb₂O₅ (%)	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 are included in the Company's annual governance statement in the Annual Report released to the ASX on 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



Corporate Profile

Capital Structure					
Ordinary Shares	119.05 million				
Share Price (27 January 2021)	A\$5.08				
Market Capitalisation	A\$604.8M				
52 week low/high	A\$0.84/\$6.84				
Cash (31 December 2020)	A\$12.4M				
Enterprise Value	A\$592.4M				
Average Daily Turnover (3 Months)	A\$2.45 million				

Experienced Board and Management Team focused on delivering:

- Development of the Dubbo Project
- Production of high purity metals direct to customers
 Integrate further in the critical metals value chain





