



An Independent Critical Metals Producer

David Woodall – Managing Director

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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.

Summary

1. ASM Business Outline
2. What are Critical Minerals – Essential for New Technology
3. Critical Materials Demand – Rare Earth Magnets
4. Critical Materials – Security of Supply
5. Traditional Critical Materials Model
6. ASM Strategy in Action
7. Deliverables for our Integrated Material Business
8. ASM Strategy



ASM Business Outline

ASM

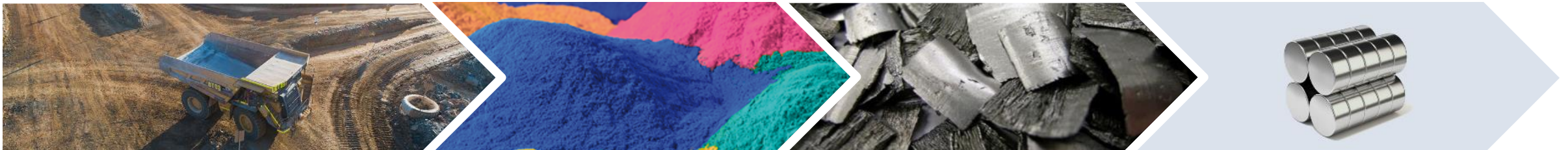
- A long life Polymetallic deposit of critical materials
- Producer of high purity critical clean metals
- Fully approved, construction ready, envisioned to be a “net zero carbon” operation

Market

- Essential for EVs, wind turbines, advanced technologies
- Supply chain dominated - pricing not transparent
- Rest of World produces low value concentrates and oxides

Growth

- Optimised Dubbo Project
- Metal Plants in strategic locations
- Korean / Australian partnership



Critical Materials – Essential for New Technology

**Electric Vehicles - ~5 kg
Rare Earth Permanent Magnets**



Growth - 3.4 M to M+ cars by 2030

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

**Wind turbines – 5 MW - ~3.0t
Rare Earth Permanent Magnets**



Forecast 7.9% annual growth - 2020 to 2024

Source: Research and Markets

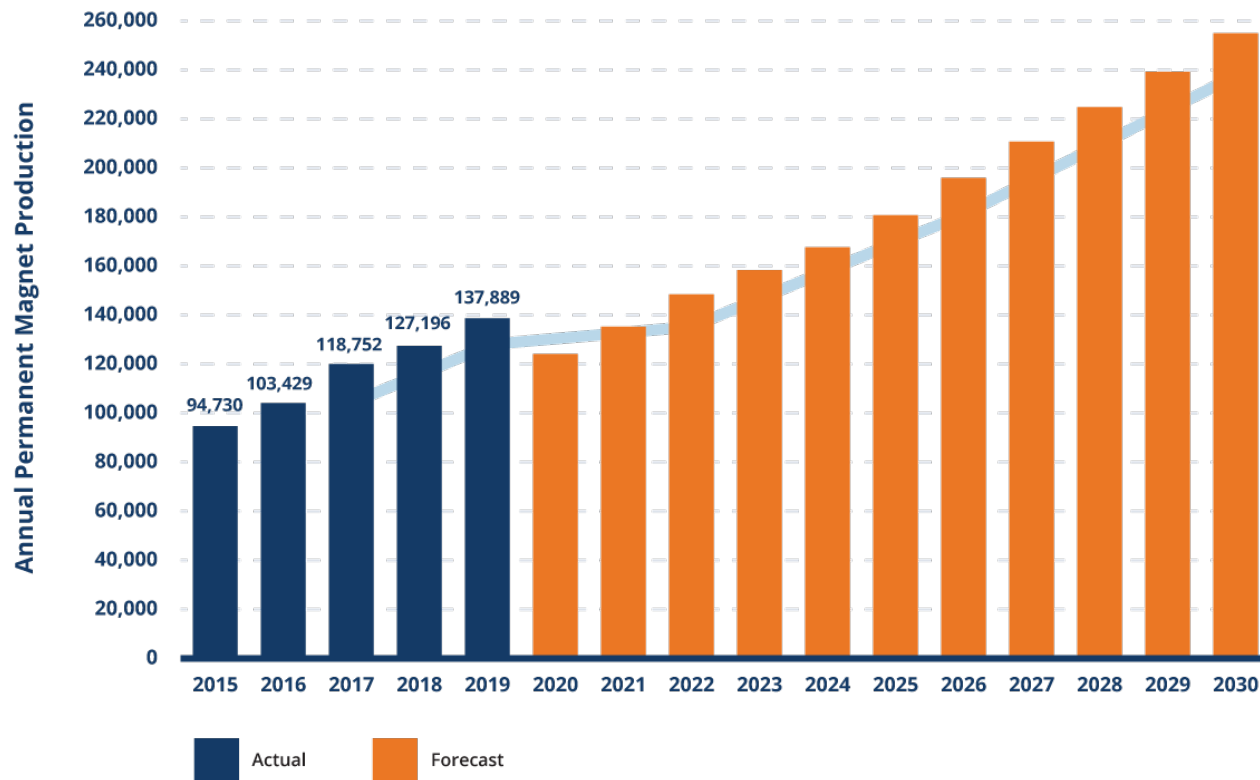
Defence / Aerospace



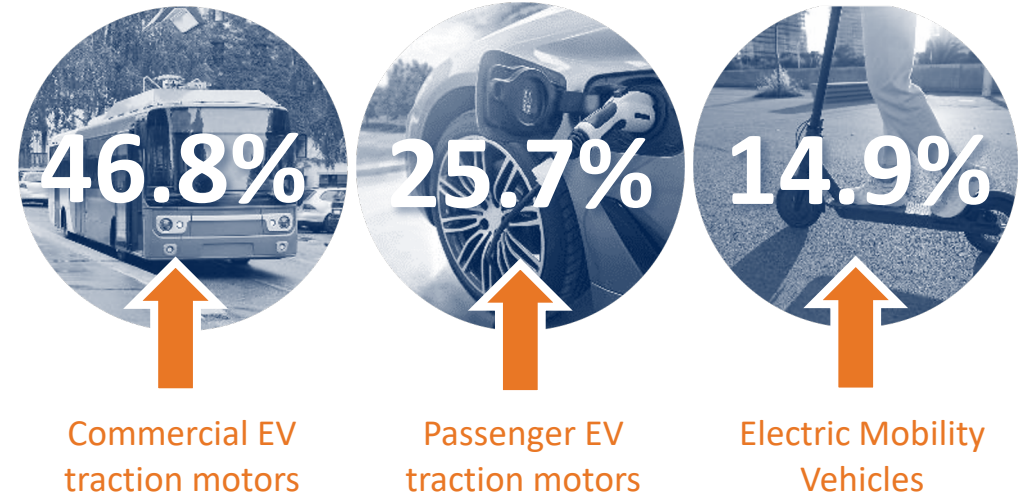
Jet turbines, GPS, defence systems

Critical Materials Demand - Rare Earth Magnets

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



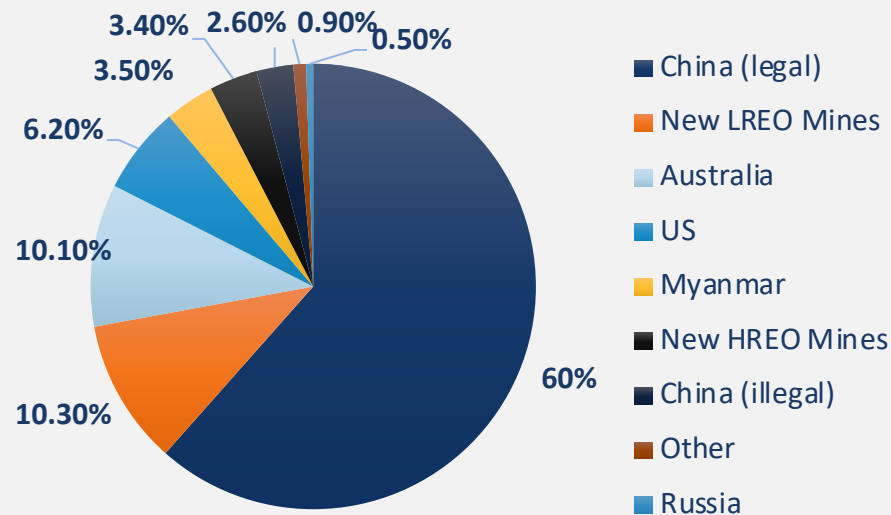
Growth Rare Earth Permanent Magnets to 2030



Critical Materials – Security of Supply

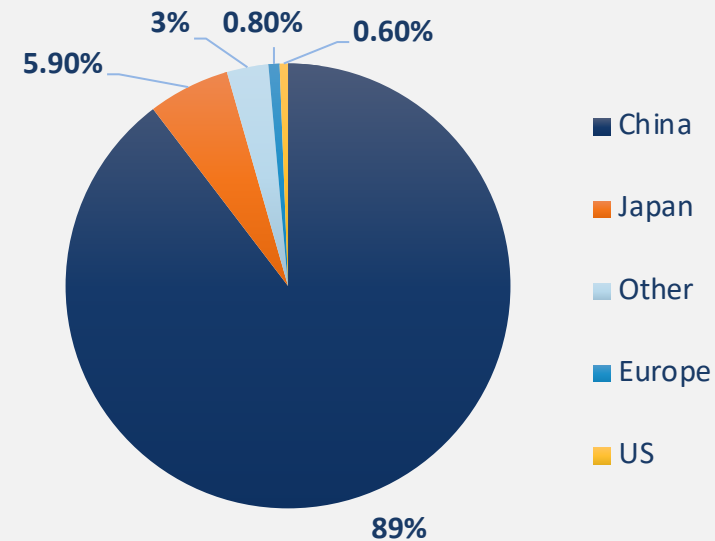
1. Market dominated and not transparent
2. Third parties control production beyond oxides.
3. Critical materials projects high capital intensity

Regional Production of Rare Earth Oxides - 2030



Source: Adamas Intelligence

Regional Manufacturing of Permanent Magnets - 2030



Source: Adamas Intelligence

Traditional Critical Materials Model



US \$ 4B

US \$ 40B

US \$ 400B

US \$ 4,000B

Traditional REE Supply

ASM Metallisation – Value Adding



Zirconium



Rare Earths



Niobium



Hafnium



Titanium

ASM Business and Growth

Dubbo

- + 75 year resource with potential to grow
- Polymetallic deposit not reliant on rare earth elements
- Fully permitted, construction ready, envisioned to be a “zero carbon”

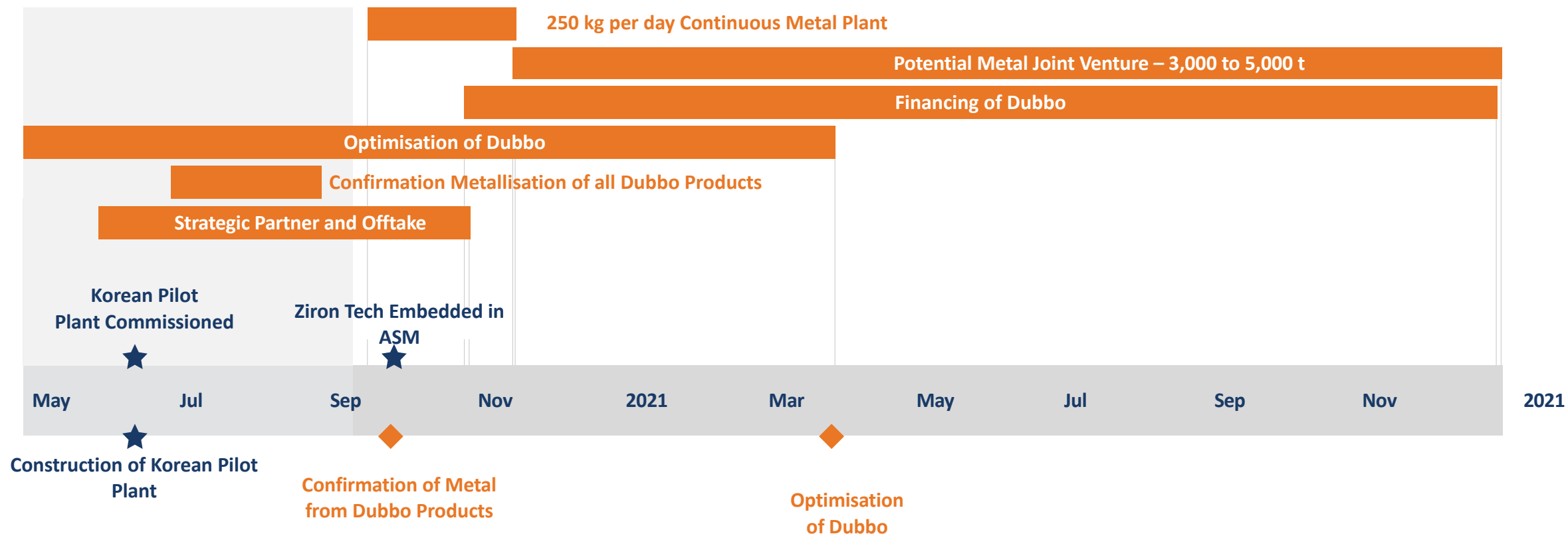
Technology

- Ownership of patents and all commercial rights
- World class Ziron Tech team focused on the technologies for the future
- A developer or preferred partner of innovative critical materials technology

Metal

- Dubbo oxides converted to metals and metal alloys
- Titanium metal / metal powder business
- A strong Korean / Australian partnership

Deliverables for our Integrated Material Business



ASM Strategy

ASM is:

- Developing the Dubbo Project for supply of critical materials products
- Adding value to Dubbo products through construction of a clean metals business using new metallisation technology
- Implementing a growth strategy with Korea to deliver metals and metal alloys for Korea's technology manufacturing industries





Dave Woodall

ASM Managing Director

 asm-au.com  [ASM_au](https://twitter.com/ASM_au)

Australian Strategic Materials Ltd

ASM a newly listed critical materials company:

- Australian Owned;
- A\$ 20M cash in the bank
- No debt

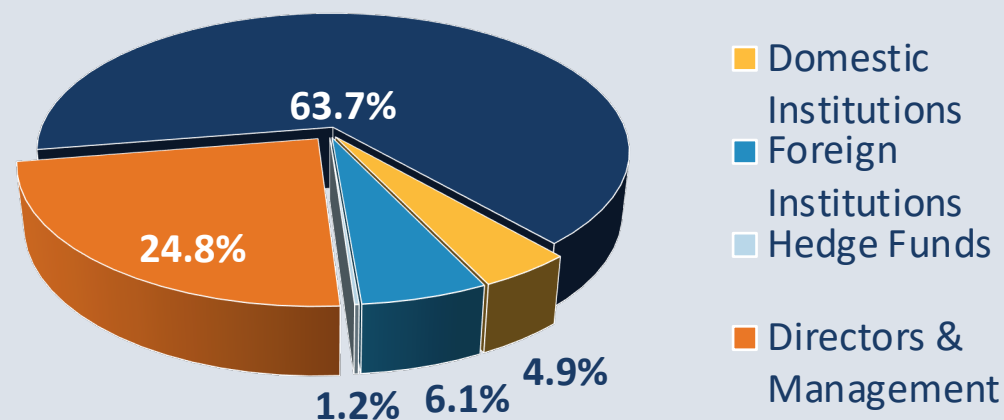
Experienced Board and Management Team focused on delivering:

- Development of the Dubbo Project
- Metallisation of all Dubbo Products
- High purity metals direct to customers



Directors

Ian Gandel	Chairman
David Woodall	Managing Director
Nicholas Earner	Non-Executive Director
Ian Chalmers	Non Executive Director
Gavin Smith	Non-Executive Director
Dennis Wilkins	Company Secretary



Dubbo Project Resources & Reserves

Dubbo Project – Mineral Resources

Resource Category	Tonnes (Mt)	ZrO ₂ (%)	HfO ₂ (%)	Nb ₂ O ₅ (%)	Ta ₂ O ₅ (%)	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 ZrO₂, HfO₂, Nb₂O₃, Ta₂O₅, Y₂O₃,

Dubbo Project – Ore Reserves

Reserve Category	Tonnes (Mt)	ZrO ₂ (%)	HfO ₂ (%)	Nb ₂ O ₅ (%)	Ta ₂ O ₅ (%)	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 in ASX announcement 29 July 2020 – Information Memorandum - 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

