

Providing an alternative, reliable, global supply of Critical Metals

May 2022



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Competent Person

The information in this document that relates to the Ore Reserves and Mineral Resource Estimates of the Dubbo Project are extracted from the Company's ASX Announcement dated 29 July 2020 titled "Information Memorandum and Demerger Booklet" available to view on the Company's website (www.asm-au.com) and www.asx.com.au and was completed in accordance with the guidelines of the JORC Code (2012).

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the Ore Reserves and Mineral Resource Estimates in the relevant market announcement continue to apply and have not materially changed.

The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

ASM: De-risking the Global Supply Chain



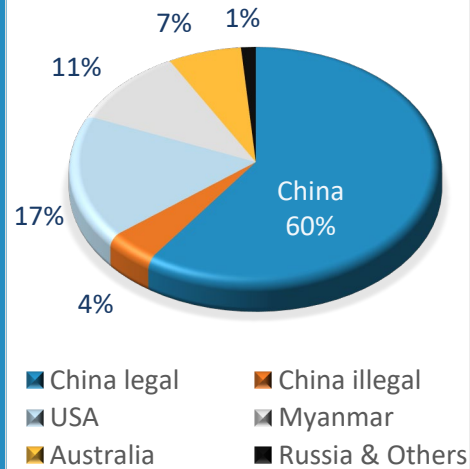
Global supply chain:

Concentrated

Lacks transparency

Significant risk across all stages

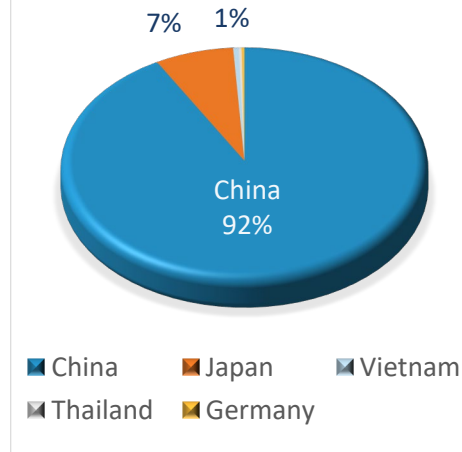
Upstream Mining & Extraction



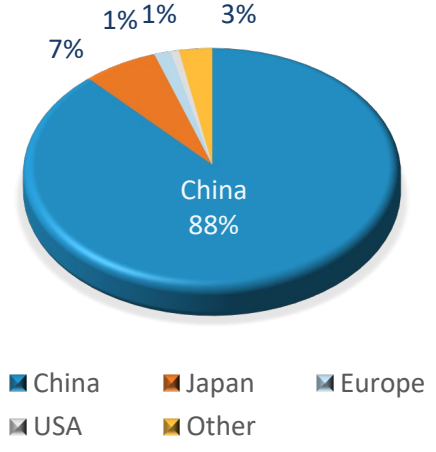
Midstream Separation & Refining



Downstream Metallisation & Alloying



End Use Magnetisation & Forming



Global Bottleneck

Rare Earth Products→

2021 Annual Production→

2035 Forecast Production→

Concentrates/Carbonates

226,000 t¹

Oxides

55,952 t²

103,342 t³

Metals and Alloys

205,000 t²

NdFeB Magnets

175,000-180,000 t²

341,950 t³

ASM – Mine to Metal



Our Vision

An alternative, secure and environmentally responsible supply of critical metals to the world

Dubbo Source

- Zirconium
- Rare earths
- Niobium
- Hafnium

External Source

- Titanium
- Rare earths

Dubbo oxides

3rd Party oxides

A global, vertically integrated mine to metals business

High Purity Metal Product

- Titanium metal, powder, alloy
- Permanent magnet alloy
- Dysprosium
- Ferro-niobium
- Niobium
- Hafnium
- Terbium
- Zirconium



Commissioning



Under consideration



Direct to Customers

Delivering a Vertically Integrated Solution

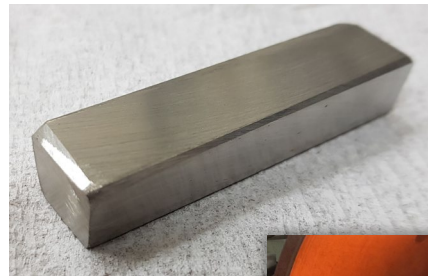
Dubbo Project

- Polymetallic resource - light and heavy rare earths, zirconium, niobium and hafnium
- Project approvals issued
- 20 year mine life producing metal oxides



Metallisation Business

- High purity metals and alloys
- Patented “green” metallisation process
- Low capital intensity and easily expanded



High Tech Manufacturing

- Diversified critical metals
- Permanent magnet alloys
- Product development to customer's specifications



Korean Metals Plant

Metals Plant

- Low capital, small footprint and readily scalable
- Located in Ochang Foreign Investment Zone, 115km south of Seoul
- Will produce metal, alloy and powder to customer specification

Rapid Development

- Acquisition of facility July 2021 expanded and registered in April 2022
- Phase 1 installation and commissioning continuing – installed capacity 2,200tpa
- Stabilise and improve efficiency of Phase 1, commence Phase 2 to capacity 5,200tpa

Technology

- Proven, innovative low energy metallisation process with lower environmental impacts
- ASM owned patented technology
- ASM R&D team developed the unique technology

Pilot Plant High Purity Metals Produced

| | | |
|------------------|-------|----------------|
| Praseodymium | 5.3kg | 99.3% |
| Dysprosium | 7.5kg | 99.53% |
| NdPr | 9kg | 99.65% |
| Zirconium powder | 8.6kg | >98% (Hf ~1%) |
| Titanium powder | 9.2kg | 99.83% |
| CuTi Alloy | 60kg | (70%,30%) |
| NdFeB | 6kg | (32%, 67%, 1%) |



Korean Metals Plant

Production and Financials

- Korean Metals Plant updated production and financials¹:
 - Phase 1 2,200tpa installation and commissioning through Q2 2022 with optimisation and ramp-up over second half 2022
 - Phase 2 5,200tpa installation anticipated mid 2023, with ramp up by end 2023, aligned to securing customer sales contracts
 - Capital in line with original estimate of USD 35-45 million
- Sales discussions progressing with potential customers in Korea and the USA for Korean Metal Plant products
- Korean Metal Plant provides the proof of concept for potential expansion based on market demand in Korea and globally

| Korean Metal Plant – 5,200tpa Summary | |
|---------------------------------------|-----------------|
| <u>Production</u> | |
| NdFeB Alloy | 3,600 tpa |
| CuTi Alloy | 1,600 tpa |
| Total Production Capacity | 5,200 tpa |
| <u>Financial</u> | |
| Annual Revenue | USD 270 million |
| Annual EBITDA | USD 40 million |

Footnotes¹:

- Final Production mix, revenue and EBITDA will be subject to customer demand and could include Nd, NdPr, Dy, CuTi and NiTi metals, NdFeB alloy or Ti powder
- Operating costs other than feed material costs are in line with original estimates ASX announcement: [March 2nd 2021 Scoping Study Demonstrates Feasibility of ASM Korean Metals Plant](#)
- Reliable published benchmark data for KMP end products is not available. Raw materials and sales price assumptions are based on key raw material inputs from Argus (5th May 2022) and Adamas (April 2022) and ASM's assessment of achievable sales pricing. This remains uncertain until customer sales contracts are secured.

Korean Financing Update

Original Korean Consortium Agreement

- USD 250 million equity investment for 20% of the Dubbo Project
- 2,800 tpa NdFeB 10 Year Offtake
- Exclusive Agreement

Revised Korean Consortium Framework Agreement

- Potential investments include post completion of the Engineering, Procurement and Construction Design¹ of the Dubbo Project:
- Facilitate a strategic investor to acquire 10% of Australian Strategic Materials (Holdings) Ltd (ASMH) shares for USD 125 million, and
 - An investment of USD 50 million via a convertible bond for a 30% stake in KSM Metals Co Ltd (ASM's subsidiary that owns the Korean Metals Plant).
 - A further USD 105 million equity investment in ASM,
 - 2,800 tpa NdFeB 10 Year Offtake – check consistency
 - Non-exclusive Agreement

Korean Consortium Financing Milestones and Next Steps

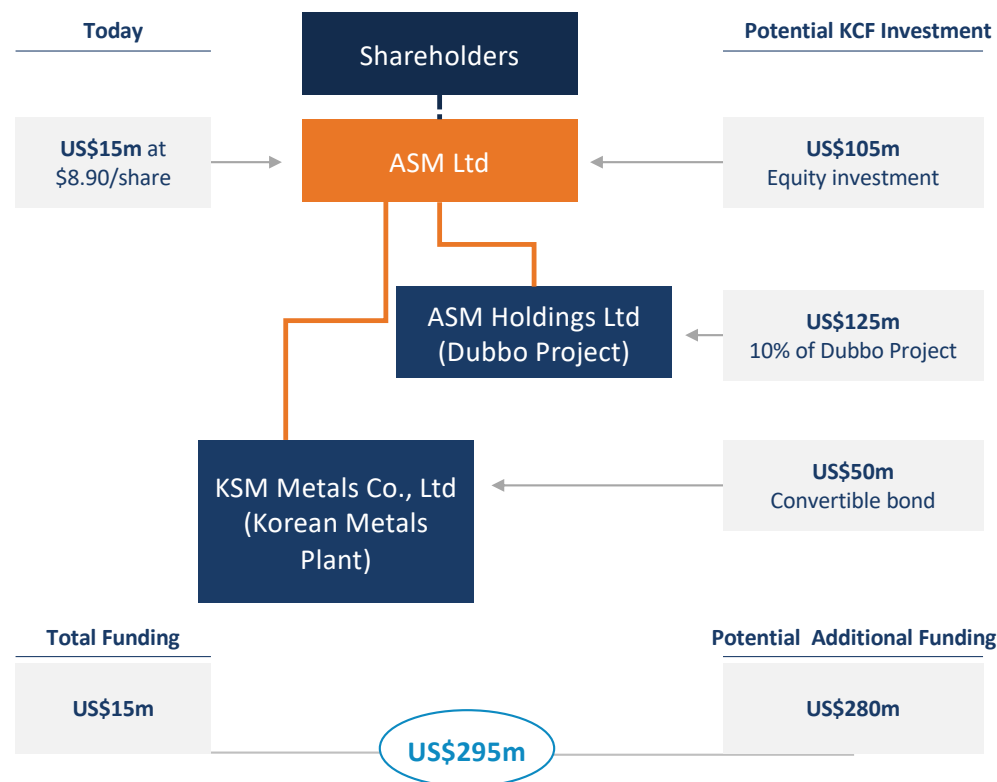
- Dubbo due diligence – completed
- Dubbo Engineering, Procurement and Construction Design¹ – mid 2023
- Completion of Agreement – Q3 2023

- Note 1: Engineering, Procurement and Construction Design:
- Front-end Engineering and Design (FEED)
 - Early Design of Key Work Packages
 - Open Book Project Cost Estimate

Overview of Revised Framework Agreement



Investment Structure



Comments

KCF has invested US\$15m in ASM Limited at A\$8.90 per share
Potential for a further US\$105m future investment as milestones are achieved

Potential for a 10% investment in the Dubbo Project, for US\$125m by a strategic partner

Potential investment of US\$50m into KSMM as a convertible note for 30% of KSMM

Milestones and Potential Next Steps

| | |
|--|------------------------|
| Dubbo Due Diligence | Successfully completed |
| Proposed Hyundai and Construction Contract | Mid - 2023 |
| Front-End Engineering Design | |
| Early Design of Key Work Packages | |
| Open Book Capital Cost Estimate | |
| Completion of Potential KCF Investments | Q3 2023 |



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Dubbo: Long Life Project - Strong Financials

Project

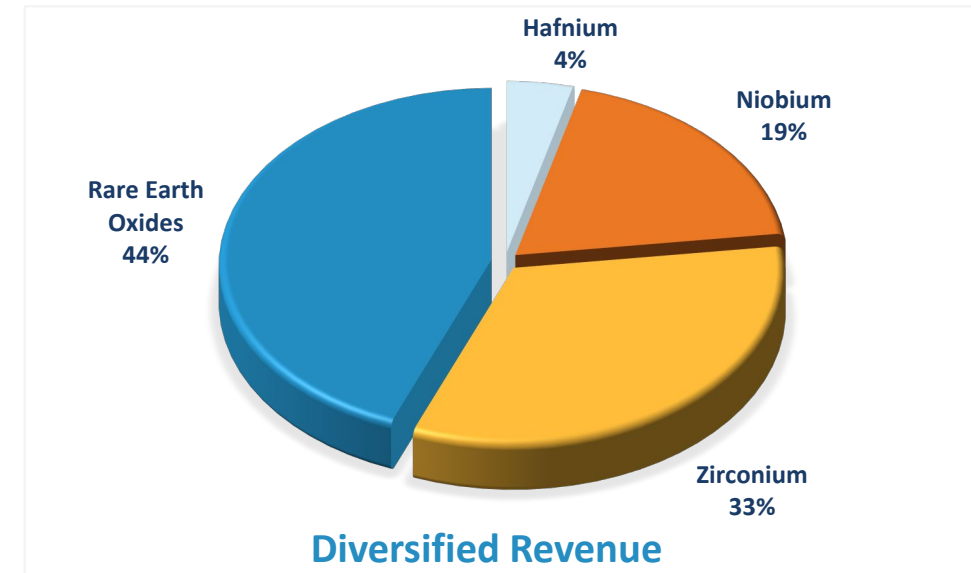
- 400km northwest of Sydney and 25km from Dubbo
- Proven flowsheet with Australian Nuclear Science & Technology Organisation
- Construction ready - major permits received, water license and land owned

Strong Financials

- Strong Free Cash Flow
- Meets all typical debt financial ratios
- **Pre-tax IRR 23.5%, Post-tax IRR 20.1%**

Robust Diversified Output

- Polymetallic project de-risking exposure to commodity price variation
- All products can be integrated into ASM's metal business
- Opportunity to increase hafnium production



| Key Outputs | USD million |
|---|-------------|
| Gross Revenue | \$11,851 |
| Total undiscounted pre-tax Free Cash Flow | \$5,581 |
| Annual Free Cash Flow (full ramp up) | \$319 |
| Pre-tax Project IRR % | 23.5% |
| Post-tax Project IRR % | 20.1% |
| Pre-Tax NPV | \$1,770 |
| Post-tax NPV | \$1,186 |

* Exchange Rate (A\$:US\$) - 0.75; Discount Rate (real, post-tax %p.a.) 8.0%; Corporate Tax Rate (%) - 30%

ESG: Responsible Stewardship

Targeting operational net-zero

- Reduce emissions -
 - Refurbish railway
 - Chlor-alkali plant
 - Use renewable energy where possible
- Metallisation process lower footprint than conventional methods
- Protecting biodiversity -
 - Improved process to reduce water use
 - Biodiversity offset areas protected in perpetuity
 - Project within a working farm



Supporting community

- Solid history of successful engagement with local, regional, state and federal stakeholders
- Integrating development and operating plans for mutual benefit with the community
- Engagement with First Nations community



Strong, credentialed leadership

- Led by a diverse and experienced Board and leadership team
- Comprehensive systems of control and accountability, implemented with openness and integrity
- Engage all ASM people, suppliers and customers to ensure adherence to our guiding values and principles



Australian Strategic Materials

Secure, stable and sustainable
critical metals to the world





David Woodall

Managing Director

Australian Strategic Materials

P: +61 8 9200 1681

E: dwoodall@asm-au.com

 asm-au.com

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



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Corporate Profile

Capital Structure

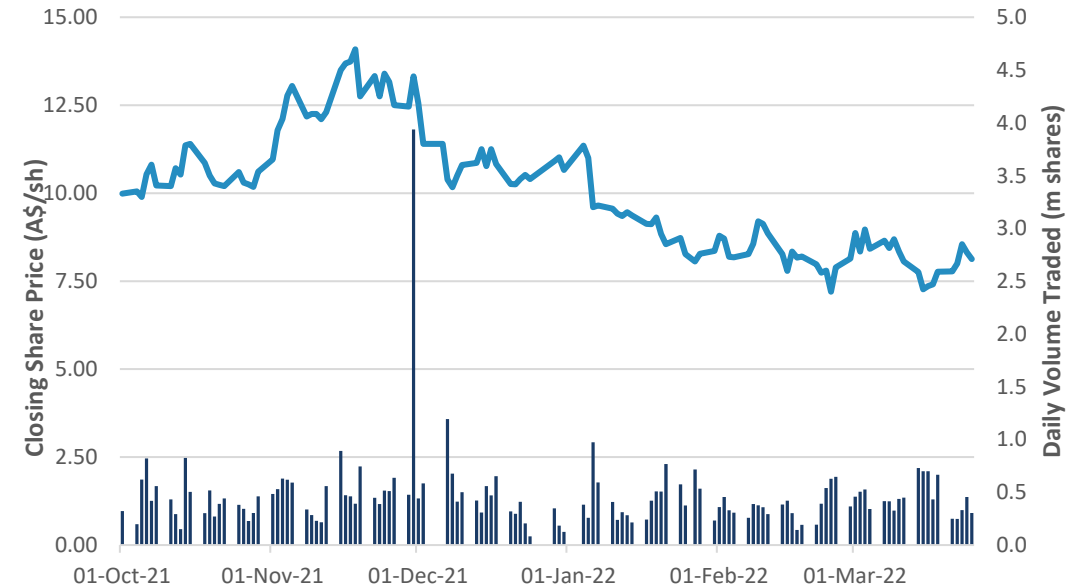
| | |
|-----------------------------------|------------------|
| Ordinary Shares (m) | 139.5 |
| Share Price (14 April 22) | A\$7.34 |
| Market Capitalisation | A\$1.02B |
| 52 week low/high | A\$4.08/A\$14.15 |
| Cash (31 Dec 21) | A\$56.9M |
| Enterprise Value | A\$1.08B |
| Average Daily Turnover (3 Months) | A\$3.5M |

Board

- **Ian Jeffrey Gandel** (Non-Executive Chair) LLB, BEc, FCPA, FAICD
- **David Woodall** (Managing Director) BSc Mining, MSc (Mineral Economics) and Graduate Diploma (Business)
- **Nic Earner** (Non-Executive Director) BEng (Hons)
- **Kerry Gleeson** (Non-Executive Director) LLB (Hons), FAICD
- **Gavin Smith** (Non-Executive Director) B.Com, MBA, MAICD



Share Price and Volume (6 Months)



Shareholders (at 31 March 2022)

