





May 2022

Disclaimer



This presentation contains certain forward-looking statements and forecasts, including possible or assumed reserves and resources, production levels and rates, costs, prices, future performance or potential growth of Australian Strategic Materials Ltd (the Company), industry growth or other trend projections. Such statements are not a guarantee of future performance and involve unknown risks and uncertainties, as well as other factors which are beyond the control of Australian Strategic Materials Ltd. Actual results and developments may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors. Nothing in this presentation should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities.

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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.

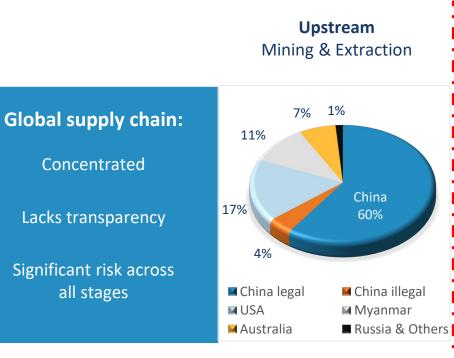
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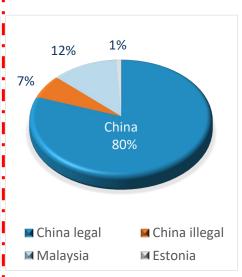


ASM: De-risking the Global Supply Chain



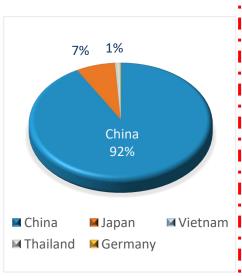
Global Bottleneck





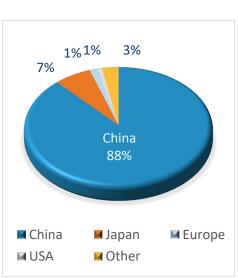
Midstream

Separation & Refining



Downstream

Metallisation & Alloying



End Use

Magnetisation & Forming

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



A global, vertically integrated mine to metals business













Under consideration

High Purity Metal Product

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







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

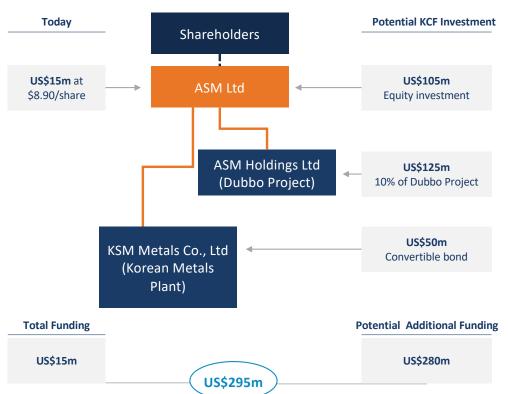
- Front-end Engineering and Design (FEED)
- Early Design of Key Work Packages
- Open Book Project Cost Estimate







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				
4	Proposed Hyundai and Construction Contract					
	Front-End Engineering Design	Mid - 2023				
1	Early Design of Key Work Packages					
	Open Book Capital Cost Estimate					
	Completion of Potential KCF Investments	Q3 2023				



Dubbo: Long Life Project - Strong Financials



Project

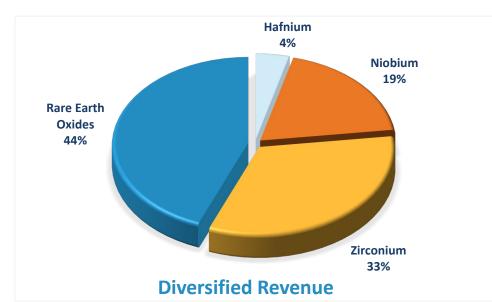
- 400km northwest of Sydney and 25km from Dubbo
- Proven flowsheet with Australian Nuclear Science & Technology Organisation
- Construction ready major permits received, water license and land owned

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



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









Secure, stable and sustainable critical metals to the world







David Woodall

Managing Director

Australian Strategic Materials

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Dubbo Project – Mineral Resources

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

Dubbo Project – Ore Reserves

Reserve Category	Tonnes (Mt)	ZrO ₂ (%)	HfO ₂ (%)	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



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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)

