Premium Mongolian Metallurgical coal

Aspire Mining
Corporate Presentation

August 2022 ASX: AKM



Disclaimer

NATURE OF THIS DOCUMENT

This presentation has been prepared by Aspire Mining Limited (Aspire or the Company). The information is based on publicly available information, internally developed data and other sources. By receiving this presentation, you acknowledge and represent to the Company that you have read, understood and accepted the terms of this disclaimer.

It is the responsibility of all recipients of this presentation to obtain all necessary approvals to receive this presentation and receipt of this presentation will be taken by the Company to constitute a representation and warranty that all relevant approvals have been obtained.

NOT AN OFFER

This presentation is for information purposes only and do not purport to be all inclusive or to contain all information about the Company or any of the assets, current or future, of the Company.

This presentation does not comprise a prospectus, product disclosure statement or other offering document under Australian law (and will not be lodged with ASIC) or any other law.

This presentation also does not constitute or form part of any invitation, offer for sale or subscription or any solicitation for any offer to buy or subscribe for any securities in any jurisdiction nor shall they or any part of them form the basis of or be relied upon in connection therewith or act as any inducement to enter into any contract or commitment with respect to securities.

Any decision to purchase new shares must be made on the basis of each investor's own investigations and inquiries into the Company on the basis of the information to be contained in the prospectus to be prepared and issued to eligible investors and a review of the Company's other periodic and continuous disclosure announcements lodged with the ASX, which are available at www.asx.com.au.

This presentation does not constitute an offer to sell, or a solicitation of an offer to buy, any securities in the United States. This presentation and its contents must not be distributed, transmitted or viewed by any person in the United States or any jurisdiction where the distribution, transmission or viewing of this document would be unlawful under the securities or other laws of that or any other jurisdiction.

NOT INVESTMENT ADVICE

This presentation is not investment or financial product advice (nor tax, accounting or legal advice) and its contents are not intended to be used for the basis of making an investment decision.

Recipients of this presentation should carefully consider whether the company is an appropriate investment for them in light of their personal circumstances, including their financial and taxation position.

This presentation does not take into account the individual investment objectives, financial situation and particular

needs of each investor or shareholder. You may wish to seek independent financial and taxation advice before making any decision in respect of this presentation. Neither Aspire nor any of its related bodies corporate is licensed to provide financial product advice in respect of Aspire's securities or any other financial products.

FORWARD LOOKING STATEMENTS

This presentation contains forward-looking information which is based on the assumptions, estimates, analysis and opinions of management made in light of its experience and its perception of trends, current conditions and expected developments, as well as other factors that management of the Company believes to be relevant and reasonable in the circumstances at the date that such statements are made, but which may prove to be incorrect.

Assumptions have been made by the Company regarding, among other things: the price of coking coal, the timely receipt of required governmental approvals, the accuracy of capital and operating cost estimates, the completion of a feasibility study for the Ovoot Coking Coal Project on its exploration and development activities, the ability of the Company to operate in a safe, efficient and effective manner and the ability of the Company to obtain financing as and when required and on reasonable terms. Readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been used by the Company.

Although management believes that the assumptions made by the Company and the expectations represented by such information are reasonable, there can be no assurance that the forward-looking information will prove to be accurate. Forward-looking information involves known and unknown risks, uncertainties, and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any anticipated future results, performance or achievements expressed or implied by such forward-looking information. Such factors include, among others, the actual market price of coking coal, the actual results of current exploration, the actual results of future exploration, changes in project parameters as plans continue to be evaluated, as well as those factors disclosed in the Company's publicly filed documents. Readers should not place undue reliance on forward-looking information. The Company does not undertake to update any forward-looking information, except in accordance with applicable securities laws.

DISCLAIMER

No representation or warranty, express or implied, is made by the Company that the material contained in this presentation will be achieved or prove to be correct. Except for statutory liability which cannot be excluded, each of the Company, its directors, officers, employees, advisers and agents expressly disclaims any responsibility for the accuracy, fairness, sufficiency or completeness of the material contained in this presentation, or any opinions or beliefs contained in this presentation, and excludes all liability whatsoever (including in negligence) for any loss or damage which may be suffered by any person as a consequence of any information in this presentation or any error or omission there from. To the maximum extent permitted by the law, the Company disclaims any obligation to update or keep current the information contained in this presentation or to correct any inaccuracy or omission which may become apparent, or to furnish any person with any further information. Any opinions expressed in the presentation are subject to change without notice.



We are a premium grade metallurgical coal development company focused on the delivery of our wholly owned **Ovoot Coking Coal** Project (OCCP).

OCCP is the subject of a fully funded Definitive Feasibility Study (DFS) which is expected to confirm robust financial outcomes for a high-quality, washed fat coking coal operation with direct transport links to China's largest steel producers.



Asset overview

Two world class metallurgical coal discoveries in Northern Mongolia



Ovoot Coking Coal Project					
Ownership	100% Aspire Mining				
Product	Premium fat metallurgical coal				
Mineral Resource estimate	281.1 Mt				
Tenement area	51.4 km ²				
Mining Licence status	30 year – granted 2012. Extendable by up to two 20 year periods				
Status	Updated PFS completed (November 2019)				
Next steps	DFS (subject to permitting)				
Nuurstei Asset					
Ownership	Aspire (90%)				
Product	Mid volatility metallurgical coal				
Mineral Resource estimate	12.9 Mt				
Status	Scoping Study complete				



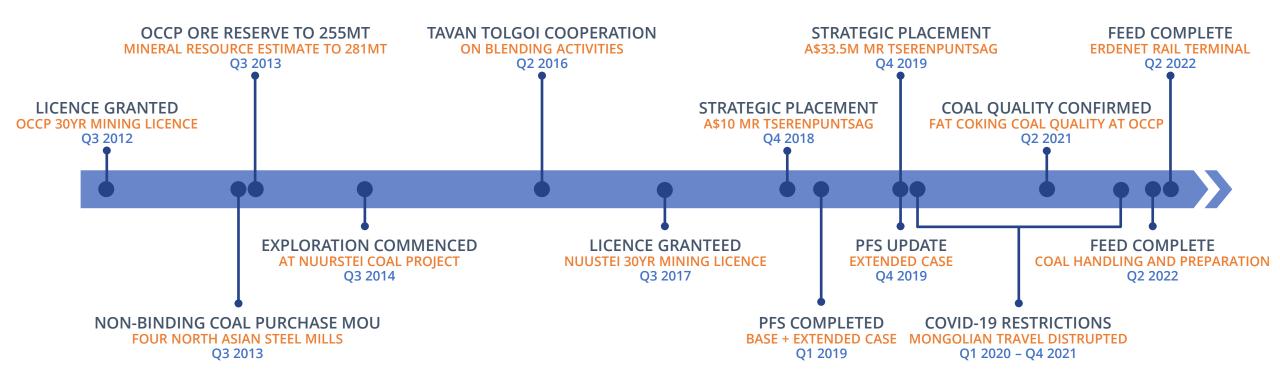
Mineral Resource estimate							
Deposit	Measured	Indicated	Inferred	Total			
Ovoot	197.0	72.3	11.8	281.1			
Nuurstei		4.8	8.1	12.9			
Total combined	197.0	77.1	19.9	294.0			

For further information refer to the Compliance Statement in the Appendix.

Progressively advancing toward production

Systematic project de-risking – the time is right for development





US\$50M CAPITAL DEPLOYED TOWARD OCCP PROJECT ADVANCEMENT

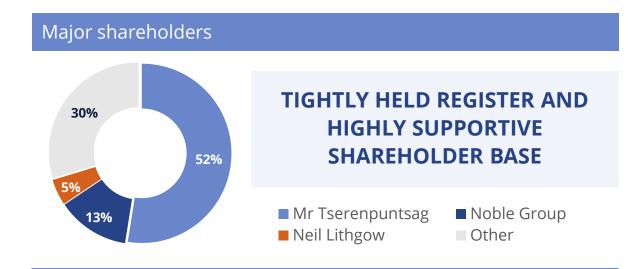
COVID-19 TRAVEL RESTRICTIONS LIFTED - PERMITTING PATHWAY NOW CLEAR OVOOT COKING COAL PROJECT DFS DELIVERY TARGETED FOR Q1 2023

Corporate snapshot

Strong cash position, incredible value upside



Capital structure	
Share price (30 August 2022)	A\$0.087
Shares on issue (07 July 2022)	508M
Performance Rights (07 July 2022)	6M
Market capitalisation	A\$44M
Cash (30 June 2022)	A\$32M
Debt (30 June 2022)	Nil
Enterprise value (undiluted)	A\$12M





Aspire Mining

Board of Directors and Senior Management

Deep Mongolian business experience and strong technical credentials





David Paull

Non-Executive Chairman

- Over 30 years experience in natural resource business development and industrial minerals marketing
- Previously Managing Director of Aspire Mining



Achit-Erdene Darambazar

Managing Director

- Financial adviser to Mr Tserenpuntsag
- President and CEO of Mongolia International Capital Corporation LLC (MICC), a leading Mongolian investment banking firm



Boldbaatar Bat-Amgalan

Non-Executive Director

- Experienced senior public relations and publishing expert
- Previously Director of Erdenet Mining Company
- Also held senior roles in the Mongolian Government



Neil Lithgow

Non-Executive Director

- Geologist with over 28 years experience in mineral exploration, economics and feasibility studies covering base metals, coal, iron ore and gold
- Currently a Non-Executive Director of Australian Silica Quartz Group Ltd



Hannah Badenach

Non-Executive Director

- Lawyer with more than 20 years international commodity experience across asset development, logistics, marketing, financing and M&A
- Currently Vice
 President of Asset
 Development at
 Noble Resources



Sam h Bowles

Chief Operating Officer

- Mining Engineer with more than 10 years technical, operational and executive experience in the Mongolian coal industry
- Previously Chief Operating Officer for Mongolian Mining Corporation



Phil Rundell

Chief Financial Officer and CoSec

- Chartered Accountant and former Partner at Coopers and Lybrand (now Price Waterhouse Coopers)
- Specialist in providing company secretarial, compliance, accounting and reconstruction services



Company highlights

A rare high quality, global scale, undeveloped metallurgical coal opportunity



- 1.
- Outstanding PFS results for up to 4Mtpa saleable product, single open pit operation Permitting progressing for near-term delivery of a fully funded OCCP DFS
- Highly desirable product properties and premium specification
 Well placed to capitalise on post COVID-19 metallurgical coal price rises
- Committed to increasing social value and environmental stewardship Guided by a deep respect for the Mongolian people, environment and way of life
- Significant growth development potential Large latent Reserve inventory

Technically sound, highly economic single open pit operation



HIGH INVESTMENT RETURNS

US\$878M
PRE TAX NPV_{10%}
~49%

PRE TAX IRR

LOW CAPITAL INTENSITY

US\$262M
TOTAL PRE PRODUCTION

CAPITAL EXPENDITURE

PREMIUM QUALITY PRODUCT UP TO 4Mtpa FAT COKING COAL PRODUCT

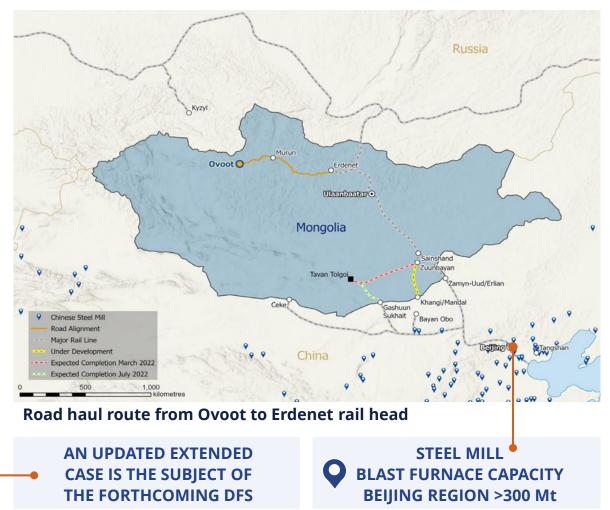
- Updated extended case (53.8Mt Ore Reserve carve out)
 highlights the attractive economics associated with a 12.5yr
 LOM
- Up to 4Mtpa mine production of low ash, low strip ratio high yielding fat coking coal
- Coal washed at site and delivered via specially constructed haul road connected to a rail head at Erdenet
- Targeting renewable power and world leading processing technology to mitigate Scope 1 and 2 emissions
- High quality fat coking coal product assists steel makers to improve productivity and reduce Scope 3 emissions
- Provides direct and long lasting social and economic benefit for the local community

For further information refer to the Compliance Statement in the Appendix.

Ovoot to Erdenet road haul provides accelerated route to early development



PFD key outcomes			
Ovoot Coking Coal Project	UoM	Extended	Updated
Total ROM coal mined	Mt	53.8	53.8
Initial life-of-mine	years	12.5	12.5
Average strip ratio (ROM) (including pre strip)	BCM/t	4.7	4.7
Processing yield	%	86	85
Nameplate saleable production (net 2% loss)	Mtpa	4.0	4.0
Total saleable product	Mt	45.2	44.7
Pre production mine capital expenditure	US\$M	102	97
Pre production road capital expenditure	US\$M	165	165
Cash operating cost (Erlian border)	US\$/t	102	97
Coking coal price (net received, Erlian border)	US\$/t	150	150
Mongolian royalties	%	6.5	6.5
NPV _{10%} (pre tax, real, ungeared)	US\$M	758	878
IRR (pre tax, real, ungeared)	%	44.5	49.4
Project cashflow (EBITDA)	US\$M	2,200	2,400



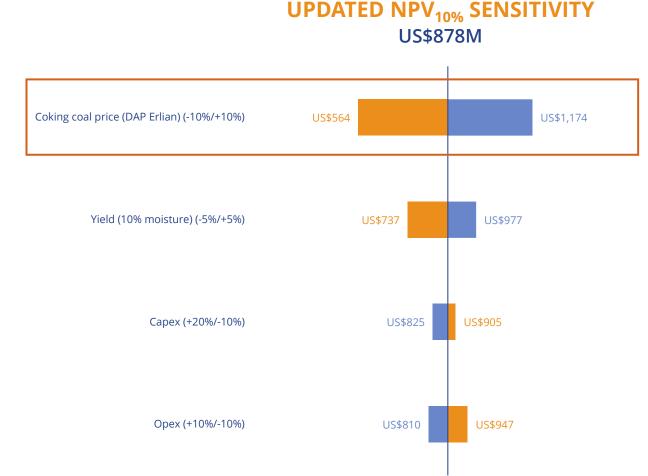
Attractive leverage to coking coal price upside





INDEPENDENTLY VARYING THE DAP ERLIAN COKING COAL INPUT PRICE PARAMETER TO APPROXIMATE SPOT LEVELS (US\$350/T) YIELDS A SIGNIFICANT UPLIFT TO EXTENDED CASE WITH PRE-TAX NPV_{10%}

>US\$4,500M



Pathway to rapidly progress OCCP now clear



- All FEED study work complete
- DEIA and Environmental Management Plan (EMP) approval expected in September quarter 2022 – facilitates preproduction drilling program
- Drilling program to improve pit wall data accuracy, capture fresh market samples and provide further detail on coal quality
- Definitive Feasibility Study expected to be delivered Q1 2023



Target development schedule includes forecast internal and external / third-party timeframes. Schedule is subject to change in response to changes in market and regulatory environments.

2. Product specification and pricing¹

Ovoot product comfortably within the highest category of fat coking coals



OVOOT COAL TEST

- Coal sample reflective of Ovoot's Upper Seam tested by SGS in Tianjin China during Q2 2021
- Key results reaffirm outstanding properties across a wide temperature range:
 - Wide plastic range (>95°C) longer period of plasticity allowing bondage to numerous other types of coals with narrower melting ranges
 - Very high fluidity facilitates good mixing with batch coals
 - Great volume of plastic material produced, reflected in the upper end of Y Index – high capacity to effectively bond particles from other coals

Test Item	Base	Unit	Result	Fat Coal Range
Volatile Matter	daf	%	32.6	28 – 37
Max Plastic Layer – Y Index		mm	32.0	+25
Caking Index – G			101.0	+85
Max dilation (higher better)		%	269.0	+220

CHINESE COAL CLASSIFICATION (GB/T 5751-2009)

- Ovoot coal classified as FM 36# Metabituminous Coal
- Also fits within the Fat (Zh) and Coking Fat (kZh) coking coal categories within the Russian coal classification system

Classification	Code	#	Classification Index			
			V _{daf} /%	G	Y/mm	b/%
Meagre Coal	PM	11	>10~20	≤5		
Meagre Lean Coal	PS	12	>10~20	>5~20		
Lean Coal	SM	13	>10~20	>20~50		
		14	>10~20	>50~65		
		15	>10~20	>65	≤25	≤150
Coking Coal	JM	24	>10~28	>50~65		
		25	>10~ <u>28</u>	>65	≤25	≤150
		16	>10~20	>85	>25	>150
Metabituminous Coal	FM	26	>10~28	>85	>25	>150
		36	>10~37	>85	>25	>220

Aspire Mining

^{1.} Refer to ASX Announcement dated 4th June 2021

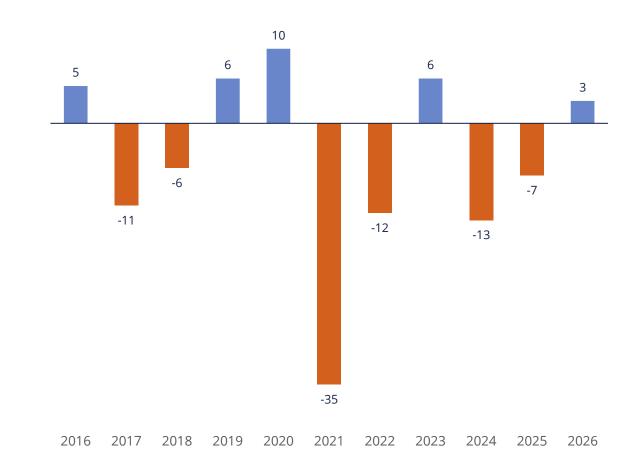
2. Product specification and pricing

High quality fat coking coals are critical to the Chinese steel industry



- Metallurgical coal was first used to make steel in China in the 11th Century
- High quality coking coals remain essential for steel producers
- Required to make high quality coke to maximise productivity of blast furnace operations
- It takes around 770 kilograms of metallurgical coal to make the steel for a single, typical mid sized car
- Hydrogen-based steelmaking is unlikely to displace traditional steelmaking for two to three decades
- Demand remains high, metallurgical coal market regularly in deficit





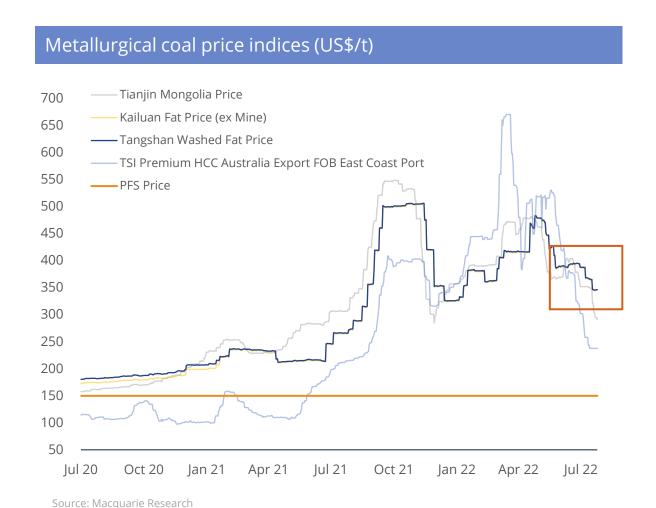
Source: S&P Global, Macquarie Research

Investor Presentation 16

2. Product specification and pricing

Continued strength in realised fat washed coking coal prices





- China not self sufficient in sourcing hard coking coals and have relied on imports since 2009
- Ovoot style coking coal would be added in a 5% 10% batch ratio to support the carrying ability of hard coking coals
- Meaningful premiums a paid for high quality, washed, fat coking coals
- Forecast prices are expected to remain well above the US\$150/t PFS Price for foreseeable future

WASHED FAT PRICES MORE THAN DOUBLE PFS PRICE ASSUMPTION

3. Social value and environmental stewardship

Guided by a deep respect for Mongolia



RESPECT



For the environment, with investment in sustainable energy sources for a secure future



For the local culture, with support initiatives to enable herders to maintain their lifestyle



For the land and water, where we seek to mitigate impacts at all levels of activities



For the people of the region, providing meaningful employment, education, training and health and well-being initiatives



For local laws and regulations, where we seek to exceed expectations as a minimum standard

3. Social value and environmental stewardship

Strong local community project support



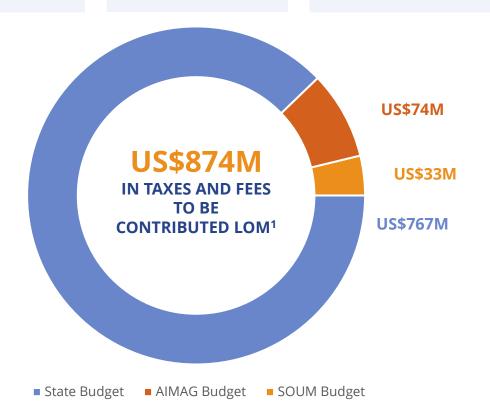
OCCP IS GROWING THE LOCAL ECONOMY

- Expected to provide up to 1,200 direct and indirect jobs
- US\$262M capital expenditure to be injected into the project, directly benefiting local business
- Total US\$874M in taxes and fees expected to be paid during the life of mine
- Connecting the local community to a safe, sealed road network
- Establishment of community outreach and engagement programmes, including:
 - the recent, successful trial fodder initiative where a feed crop was planted which can be stored by local herders to assist with managing livestock through the harsh Mongolian winters; and
 - sponsorship of mobile cardiac clinic founded by Dr Boldsaikhan Bundan, a leading Mongolian cardiac surgeon, benefitting children on soums adjacent to OCCP

420
MINE SITE JOBS TO
BE CREATED

300
DRIVERS REQUIRED FOR TRUCKING

>400
ADDITIONAL INDIRECT JOBS



3. Social value and environmental stewardship

Committed to UN Sustainable Development Goals



REDUCING CLIMATE CHANGE

- Mongolian President Mr Ukhnaagiin Khurelsukh announced a national campaign to plant a billion trees
- Aspire committed to 10 million tree plantings by 2030
- Agri-scientist engaged to prepare planting programme and establish tree nursery in Khuvsgul capital, Murun
- Nursery of sufficient scale to supply necessary volumes
- Will provide a long-term source for future tree planting



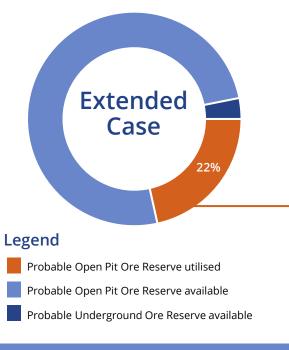


Tree planting initiative underway: 10 million tree commitment

4. Growth potential

Large residual Ore Reserve for future expansion





78%

OF ORIGINAL COAL ORE
RESERVE INVENTORY
REMAINS AVAILABLE POST
OCCP FOR FUTURE
DEVELOPMENT

DFS

EXPECTED TO INCLUDE A
SIGNIFICANT UPDATE TO
UTILISED RESERVE IN A
FURTHER OPTIMSED
EXPANDED CASE

- Updated extended case PFS carved out of very small portion of original OCCP Probable Coal Ore Reserve
- Study work demonstrated attractive economic leverage that can be achieved with project life continuation
- PFS suggests the OCCP could feasibly be extended into a multidecade haul road-based operation on completion of additional studies

Ore Reserve Utilisation				
Category	Coal Reserve M (arb, 2% moisture)	larketable Coal Reserve (adb, 10% moisture)	Product Specification (adb, ash content)	Product Specification (adb, CSN)
Probable Ore Reserve – Base	37.6 ROM Mt	32.2 Mt	10.5%	8.5%
Probable Ore Reserve – Updated extended	54.9 ROM Mt	46.2 Mt	10.5%	8.5%

For further information refer to the Compliance Statement in the Appendix.

4. Growth potential

Provincial Chinese blast furnace capacity

Highly concentrated around Hebei, Beijing and Tianjin

OCCP is perfectly positioned to provide high quality metallurgical coal overland via direct truck and rail connection to >300 Mt pa blast furnace capacity

READY
MARKET FOR
HIGH QUALITY
PRODUCT

Direct access to
>300Mtpa
capacity



Source: Teck Resources Presentation: Steelmaking Coal Resilience, 9 May 2022

4. Growth potential

Severe underinvestment in new and expansionary metallurgical coal supply



- Despite long term demand for high-grade coking coal remaining robust, Australian investment has stalled
- BHP has cut all investment in the Queensland Blackwall South coal business¹
- South32 is no longer making a planned US\$700M investment in Dendrobium Next Domain mine life expansion project² and in 2021 made the decision to hold plans to develop the Eagle Downs metallurgical coal mine in Queensland
- Tata Steel Managing Director Thachat Viswanath Narendran publicly urged miners to ramp up investment in coking coal³



Demand for coking coal in India is going to grow, it is going to double in the next 10 years. India is already a bigger importer of coking coal than China.

- Tata managing director **Thachat Viswanath Narendra**

^{1.} Refer BHP announcement on ASX 16 August 2022, BHP Results for the Year Ended 30 June 2022

^{2.} Refer South32 announcement on the ASX 23 August 2022, Dendrobium Next Domain Update

^{3.} Bloomberg article 23 August 2022 "South32 to Focus on Green Metals After Coal Project Axed"

Investment summary



A rare high quality, global scale, undeveloped metallurgical coal opportunity

- Outstanding PFS results for up to 4Mtpa saleable product, single open pit operation
- Highly desirable product properties and premium specification
- Committed to increasing social value and environmental stewardship
- 4. Significant growth development potential



CURRENT LOW ENTERPRISE
VALUE PROVIDES ATTRACTIVE ENTRY
POINT FOR INVESTMENT



STRONG TAIL WINDS FOR NEW METALLURGICAL COAL PROJECT DEVELOPMENT



UPCOMING DFS TO PROVIDE CATALYST FOR POSITIVE VALUATION RE-RATE



Compliance Statement



1. OVOOT EARLY DEVELOPMENT PLAN (OEDP) PRE-FEASIBILITY STUDY (PFS) EXTENDED CASE

The information contained in this presentation in respect to the Ovoot Early Development Plan (OEDP) Extended Case Update to Pre-Feasibility Study (PFS) Mine Plan and Costs, is reported in the ASX announcement released on 11 November 2019. At this time and other than the information from the CHPP and ERT FEED Studies announced on 19 May 2022 and 17 June 2022 respectively, the Company is not aware of any further new information or data that materially affects the information included in this presentation. The Company is progressing with various other studies and programs for completion of a Definitive Feasibility Study (DFS). On completion, the DFS will identify and report any new information, data or changes to material assumptions used in the Pre-feasibility Study and this presentation.

2. JORC (2012) COAL RESOURCES & COAL RESERVES

	Ovoot Coal	Resources			Ovoot Coa	l Reserves	
JORC Code Resource	Ovoot Open Pit	Ovoot Underground	Total (Mt)	JORC Code Reserves	Probable (Mt) $(M^{ar} = 2.0\%)$	Total (Mt)	Marketable (Mt) (Mar = 9.5%)
Measured	197.0	0.0	197.0	Open Pit	247	247	182
Indicated	46.9	25.4	72.3	Underground	8	8	6
Inferred	9.2	2.6	11.8	Total	255	255	188
Total	253.1	27.9	281.0				

The technical information and competent persons statements for the Ovoot Coal Reserves and Resources are reported in the Company's ASX announcements dated 2 November 2012, 31 July 2013 and 30 January 2013 (December 2013 Quarterly Activities Report) which are available to view on the Company's website and the ASX Announcements platform. At this time and other than the information from the CHPP and ERT FEED Studies announced on 19 May 2022 and 17 June 2022 respectively, the Company is not aware of any further new information or data that materially affects the information included in this presentation. The Company is progressing with various other studies and programs for completion of a Definitive Feasibility Study (DFS). On completion, the DFS will identify and report any new information, data or changes to material assumptions used in the Pre-feasibility Study and this presentation.

Compliance Statement continued



2. JORC (2012) COAL RESOURCES & COAL RESERVES CONTINUED

OEDP Coal Reserves								
Category	ROM Reserve (Mt) (M ^{ad})	ROM Reserve (Mt) (M ^{ar} = 2.0%)	ROM Ash A ^{ad} (%)	ROM CSN (#)	Category	Marketable Reserve (Mt) (M ^{ar} = 10.0%)	Product Ash A ^{ad} (%)	Product CSN (#)
Probable Ore Reserve					Probable Product Reserve			
- Open Pit OEDP Plus OEDP Extension	53.8	54.9	18.0	8.5	- Open Pit OEDP Plus OEDP Extension	46.2	10.5	8.5

The technical information and competent persons statements for the OEDP Reserves are reported in the Company's ASX announcements dated 28 February, 1 March and 11 November 2019, which are available to view on the Company's website and the ASX Announcements platform. At this time and other than the information from the CHPP and ERT FEED Studies announced on 19 May 2022 and 17 June 2022 respectively, the Company is not aware of any further new information or data that materially affects the information included in this presentation. The Company is progressing with various other studies and programs for completion of a Definitive Feasibility Study (DFS). On completion, the DFS will identify and report any new information, data or changes to material assumptions used in the Pre-feasibility Study and this presentation.

Nuurstei Coal Resources					
JORC Code Resources	Mt				
Indicated	4.75				
Inferred	8.1				
Total	12.85				

The technical information and competent persons statements for the Nuurstei Coal Resources is taken from the Company's ASX announcement dated 13 April 2016 which is available to view on the Company's website and the ASX Announcements platform. The Company confirms that it is not aware of any new information or data that materially affects the information included in the announcement, and that all material assumptions underpinning the estimates continue to apply and have not materially changed.

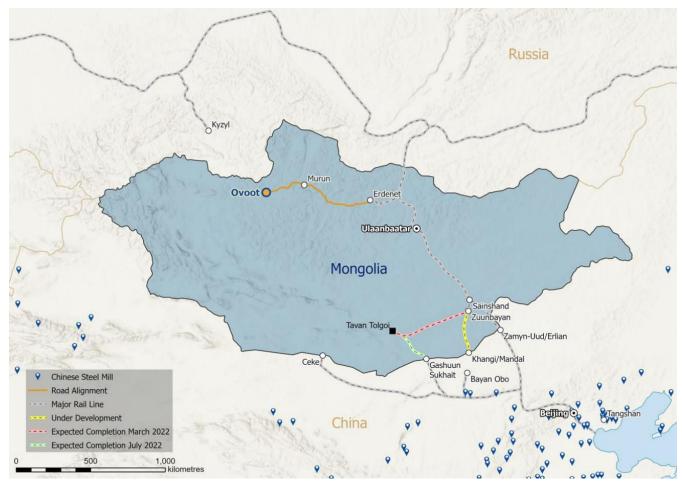
Recent Mongolian rail developments

Meaningfully enhanced export capacity to China



KEY CONSTRUCTION

- Zuunbayan to Tavan Tolgoi Railway (416km) in commissioning phase
- Zuunbayan to Khangi\Mandal (281km) to remove Sainshand to Zamyn -Uud\Erlian bottleneck – underconstruction
- Erlian border checkpoint expansion to boost Mongolian export capacity through Zamyn-Uud
- Tavan Tolgoi to Gashuun Sukhait railway to deliver Mongolian coal directly into China.
 Construction completed with commissioning underway



Major Mongolian rail developments

Contact us.



DAVID PAULL

Chairman

+61 407 225 291

ACHIT DARAMBAZAR

Managing Director +97 6 7011 6828

ASPIRE MINING LIMITED

Corporate Office

Address: Level 9, 190 St Georges Tce Perth, WA 6000

Postal address: PO Box 1918 Subiaco WA 6904

Mongolian Office

Address: Chingeltei District, 1st Khoroo, Baga Toiruu-17 JJ tower, 9th floor Ulaanbaatar-15170, Mongolia

ABN: 46 122 417 243

ASX: AKM

www.aspiremininglimited.com

