

A geological map of Australia with various mineral deposit locations marked by red pins. The map is tilted and shows different geological formations in shades of blue, yellow, and red. Labels for specific locations include 'SANDSTONE', 'SUNRISE DAM', 'SOUTHERN CROSS', and 'KALGOORLIE-BOLLA'.

A U S T R A L I A N CRITICAL MINERALS

**Developing a high-quality
portfolio of critical minerals to
support the green revolution**

COMPANY PRESENTATION | JULY 2023

ASX:ACM



Disclaimer

This presentation has been prepared by Australian Critical Minerals Limited (The Company). It does not purport to contain all the information that a prospective investor may require in connection with any potential investment in the Company. You should not treat the contents of this presentation, or any information provided in connection with it, as financial product advice or advice relating to legal, taxation or investment matters.

This presentation and the information contained herein and all electronic and/or hard copy documentation which comprise it are being provided to you solely for your information and may not be copied, reproduced, distributed, disclosed or published, in whole or in part, to any other person for any purpose whatsoever at any time without the prior written consent of the Company. This presentation is not an offer to any person nor is it a prospectus.

The Company has prepared this document based on information available to it at the time of preparation. No representation or warranty (whether express or implied) is made by the Company or any of their officers, advisers, agents or employees as to the accuracy, completeness or reasonableness of the information, statements, opinions or matters (express or implied) arising out of, contained in or derived from this presentation or provided in connection with it, or any omission from this presentation, nor as to the attainability of any estimates, forecast or projections set out in this presentation.

This presentation is not investment or financial product advice (nor tax, accounting or legal advice) and is not intended to be used for the basis of making an investment decision. The information contained in this presentation has been prepared without taking into account the objectives, financial situation or needs of individuals.

This presentation is provided expressly on the basis that you will carry out your own independent inquiries into the matters contained in the presentation and make your own independent decisions about the affairs, financial position or prospects of the Company. The Company reserves the right to update, amend or supplement the information at any time in their absolute discretion (without incurring any obligation to do so).

The Company, nor their related bodies corporate, officers, their advisers, agents and employees accept any responsibility or liability to you or to any other person or entity arising out of this presentation including pursuant to the general law (whether for negligence, under statute or otherwise), or under the Australian Securities and Investments Commission Act 2001, Corporations Act 2001 (Cth), competition and any such responsibility or liability is, to the maximum extent permitted by law, expressly disclaimed and excluded.

Nothing in this material should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities. It does not include all available information and should not be used in isolation as a basis to invest in the Company.

This presentation contains reference to certain intentions, expectations, future plans, strategy and prospects of the Company. Those intentions, expectations, future plans, strategy and prospects may or may not be achieved. They are based on certain assumptions, which may not be met or on which views may differ and may be affected by known and unknown risks. The performance and operations of the Company may be influenced by a number of factors, many of which are outside the control of the Company. No representation or warranty, express or implied, is made by the Company, or any of their directors, officers, employees, Company, or any of their directors, officers, employees, advisers or agents that any intentions, expectations or plans will be achieved either totally or partially or that any particular rate of return will be achieved.

Given the risks and uncertainties that may cause the Company actual future results, performance or achievements to be materially different from those expected, planned or intended, recipient's should not place undue reliance on these intentions, expectations, future plans, strategy and prospects. The Company does not warrant or represent that the actual results, performance or achievements will be as expected, planned or intended.

This document does not constitute any part of any offer to sell, or the solicitation of any offer to buy, any securities in the United States or to, or for the account or benefit of any "US person" as defined in Regulation S under the US Securities Act of 1993 (Securities Act). The Company shares have not been, and will not be, registered under the Securities Act or the securities laws of any state or other jurisdiction of the United States, and may not be offered or sold in the United States or to any US person without being so registered or pursuant to an exemption from registration including any exemption for qualified institutional buyers.

On 15 May 2023, the Company released a prospectus (Prospectus) for the offer of fully paid ordinary shares in the capital of the Company (Shares), a copy of which can be accessed from the Company's website at <http://auscriticalminerals.com.au/>. All offers of Shares for the capital raising referred to in this document will be made in, or accompanied by, the Prospectus. Investors should consider the Prospectus in deciding whether to acquire Shares and any person who wishes to apply for Shares must complete the application form that is accompanied by the Prospectus.

The information in this document relating to exploration results, exploration targets, mineral resources and ore reserves has been reported by the Company in accordance with the 2012 Edition of the 'Australasian Code for Reporting of Exploration results, Mineral Resources and Ore Reserves' (JORC Code) previously (refer to the Company's Prospectus). The Company confirms that it is not aware of any new information as at the date of this document that materially affects the information included in this document and that all material assumptions and technical parameters underpinning the estimates in the Company's Prospectus continue to apply and have not materially changed. Refer to the Prospectus for further details with respect to all exploration results referred to in this document.

Demand for Critical Minerals

The next mining boom is here

The transition to cleaner technologies is fueling significant global demand for critical minerals

ACM is well placed to make the most of this opportunity with a multiple commodity strategy:

- Lithium
 - Rare Earth Elements (REE)
 - Gold
 - Iron Ore
 - Kaolin
- 6 projects spanning a massive 1,861km² of highly prospective exploration tenements
 - Advanced exploration projects adjacent to producing mines
 - Excellent infrastructure
 - Experienced management with a track record of exploration and corporate success



Corporate structure

**\$5m Successfully
Raised at IPO**

**\$3.7M EV
\$8.7M Market Cap**

1-for-2 Loyalty Options**

**3 July 2023
ASX Listing Date**

**ASX Code:
ACM**

	Shares	Value at IPO
Share on Issue	18,531,260	\$3,706,252
Shares Issued via IPO	25,000,000	\$5,000,000
Total Shares on Issue	43,531,260	\$8,706,252

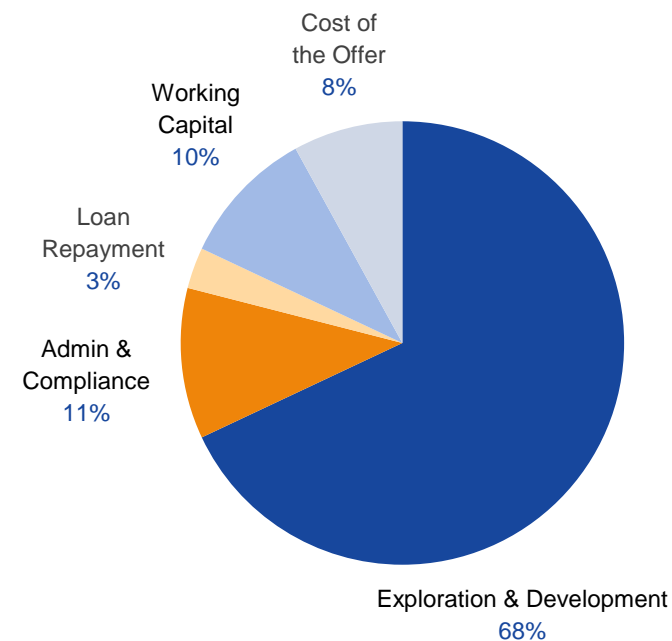
Cash at IPO		\$5,000,000
EV (pre costs)		\$3,706,252

Options on Issue*	7,531,250	
CEO Performance Rights	2,100,000	
Vendor Performance Rights	2,100,000	
Director Options *	6,000,000	
Advisor Options *	5,000,000	
Total Rights/Options	22,731,250	
FULLY DILUTED	66,262,510	

* All options exercisable at 30c within 3 years of listing. ACM will apply for the options to be listed, pending meeting ASX requirements.

** The Company intends to undertake a loyalty option offer post-listing under which each shareholder at the record date of the offer (anticipated to be between three (3) to six (6) months post-listing) will be given the opportunity to subscribe for one option for every two shares held. The terms of the offer and the options to be issued will be determined post-listing

USE OF FUNDS



Board and Management

- Strong combination of corporate and exploration experience
- Committed to adhere to best environment, social and governance (ESG) practices

Dean de Largie

MANAGING DIRECTOR

Dean has been key to identifying all the exploration opportunities in the ACM portfolio. He has a Bachelor of Applied Science in Geology from Curtin University and is a Fellow of the Australian Institute of Geoscientists. With over 30 years of diverse global exploration he provides technical direction, exploration services and project assessments to several entities in Australia, Peru and Mexico through his firm Allied Rock Pty Ltd.

Experienced in most geological terranes for gold, silver, copper, lead, zinc, nickel, iron ore, coal, petroleum, uranium, kaolin and silica Dean has worked on projects in Australia, Peru, Chile, Bolivia, Argentina, Brazil, Mexico and Nevada, for ASX, TSX and US listed entities.

Michael Wright

NON-EXECUTIVE CHAIRMAN

Michael Wright has had over 35 years' experience in the resource sector in a corporate and financial capacity. For over 20 years, he was an executive director of Herald Resources Ltd, one of the early WA listed gold miners. During that time, he was instrumental in Herald developing 5 gold mines in WA and eventually a zinc mine in Indonesia, culminating in a takeover of that company for \$580 million.

Subsequently he was a founding director and Chairman of General Mining Corp which held the Mt Cattlin lithium mine in WA, prior to its takeover by Galaxy Resources Ltd (subsequently Allkem Ltd). He is also currently the Chairman of unlisted public company Corona Resources Ltd, and formerly held directorships with a number of public companies in the resources sector.

Gary Brabham

NON-EXECUTIVE DIRECTOR

Mr Gary Brabham is a Fellow of the AusIMM and a Member of the AIG. He has had more than 40 years of exploration and mining geology experience. Gary has specialist skills in geostatistics, resource delineation and mine development.

Gary has held various directorships including Managing Director of De Grey Mining, Technical Director of Adamus Resources and was a Group Executive of Mawson West Limited. Until recently he held the position of Group Geologist for Perseus Mining Limited.



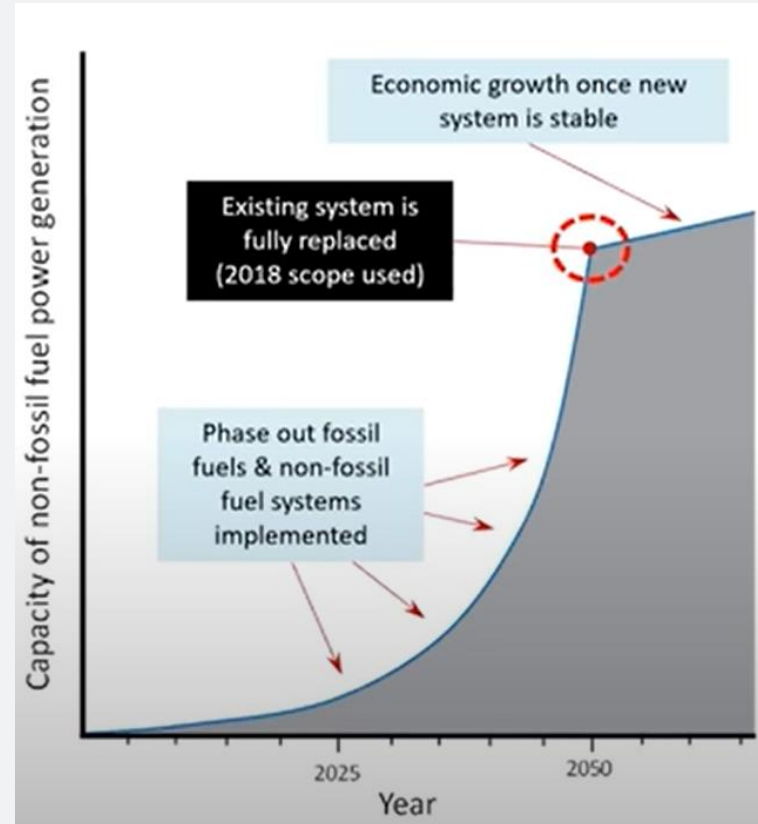
What is Required to Phase Out Fossil Fuels?


The Global Power Ecosystem in a Fossil Free World

The transition to cleaner technologies is fuelling insatiable global demand for critical minerals

You have to ask:

- What do fossil fuels do for us now?
- How many motor vehicles are there?
- How many batteries will be needed?
- How many power stations?
- What mix of renewable energy sources will be used?
- How many wind turbines, solar panels, hydrogen, tidal power, geothermal etc?
- AND more importantly.....



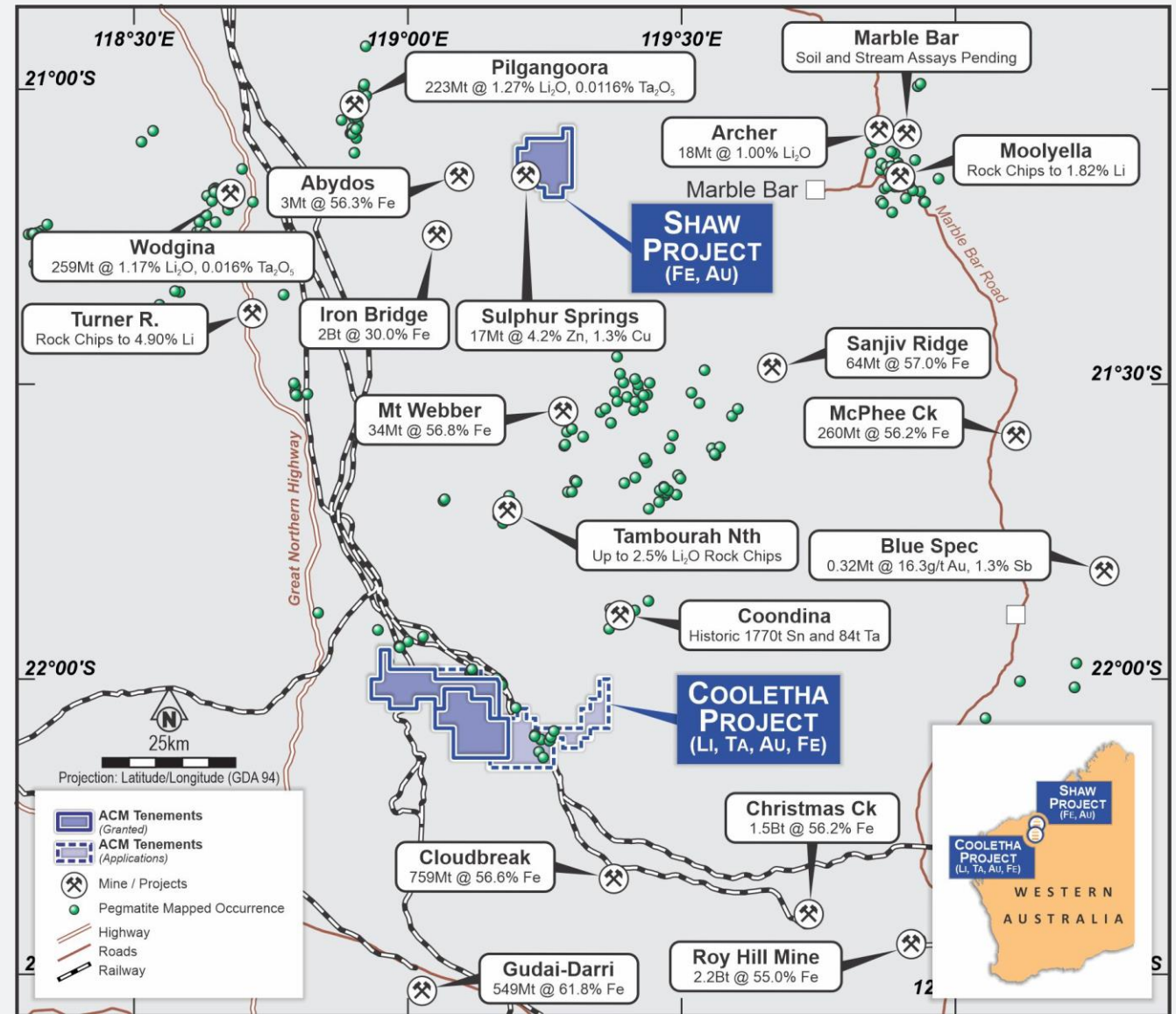
EV	4 495.7 TWh	}	Additional Annual Electrical Power Requires 36 007.9 TWh
Industry	19 958.6 TWh		
H ₂	11 553.6 TWh		
			=
			586 032 NEW Non-Fossil Fuel Power Stations
			
Power plant fleet in 2018 was 46 423 stations			
19.8.2022			
Hydro Power		Solar Power	
4,810 TWh		13,800 TWh	
3,628 stations		393,840 stations	
Nuclear Power		Geothermal & Tidal	
2,701 TWh		268 TWh	
211 Stations		442 stations	
Wind Power		Biowaste to Energy	
13,800 TWh		624 TWh	
211 Stations		18,044 stations	

.....what quantity of minerals do we need to achieve this!?

Source: Seminar - Assessment of the Extra Capacity Required of Alternative Energy Electrical Power Systems to Completely Replace Fossil Fuels, Assoc Prof Simon P. Michaux, 19 August 2022, <https://www.youtube.com/watch?v=MBVmnKuBocc>

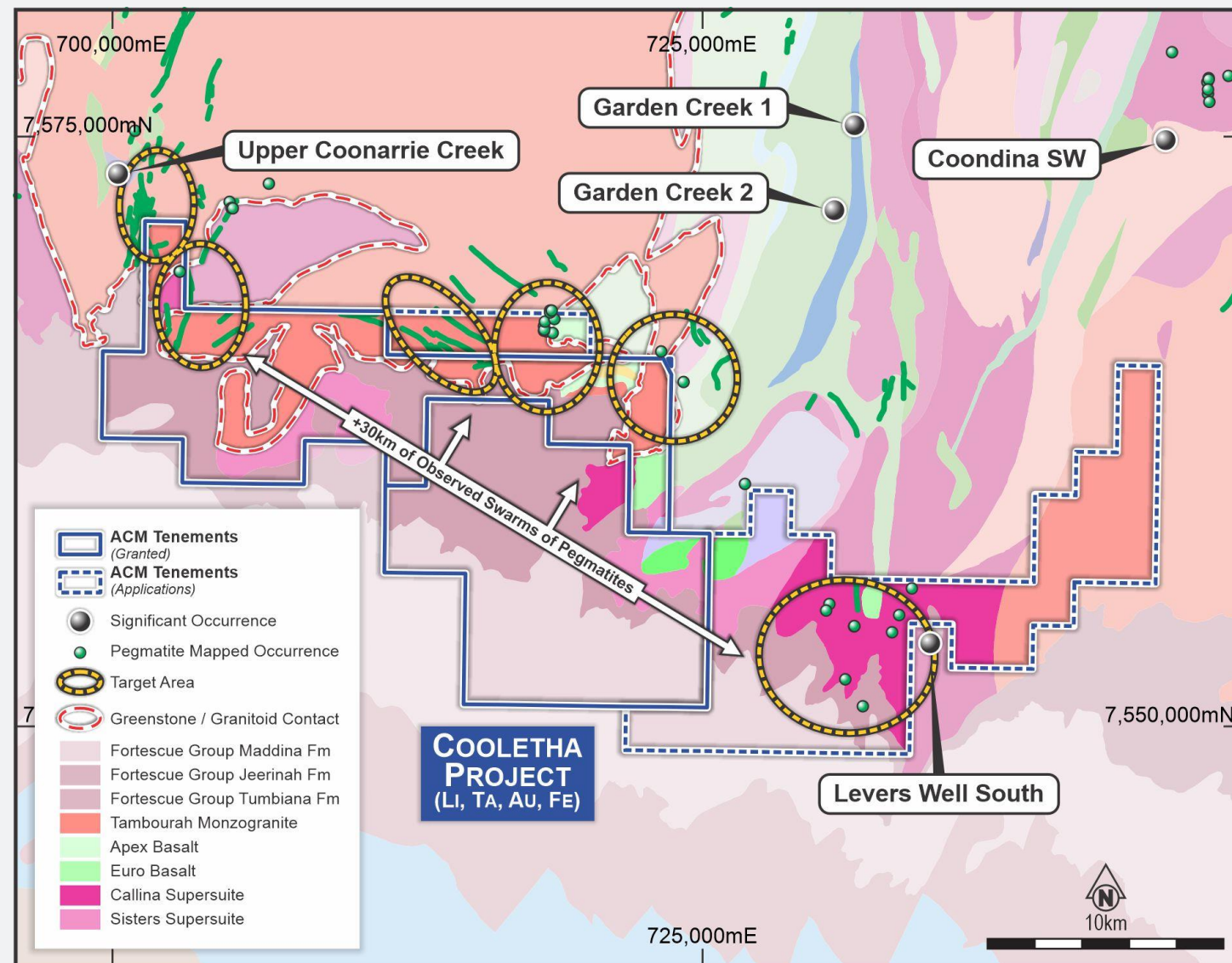
Lithium in one of the World's Best Jurisdictions

- Same region as Pilbara Minerals' (ASX:PLS) Pilgangoora (223Mt @ 1.25% Li_2O) Project, MinRes (ASX:MIN)'s Wodgina (259Mt @ 1.17% Li_2O), and Global Lithium's (ASX: GL1) Marble Bar Lithium Project 18Mt @ 1% Li_2O
- Multiple spodumene fertile opportunities in mapped pegmatite dyke swarms over a 30km strike
- Exploring for a new discovery belt at Cooletha
- Potentially one of the largest spodumene bearing pegmatite packages in this emerging lithium district



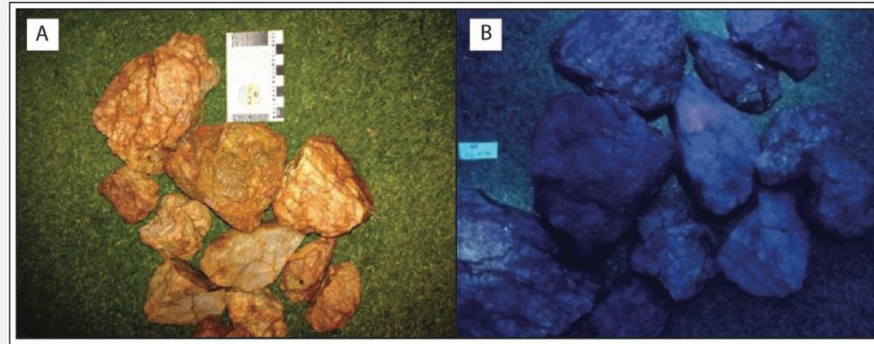
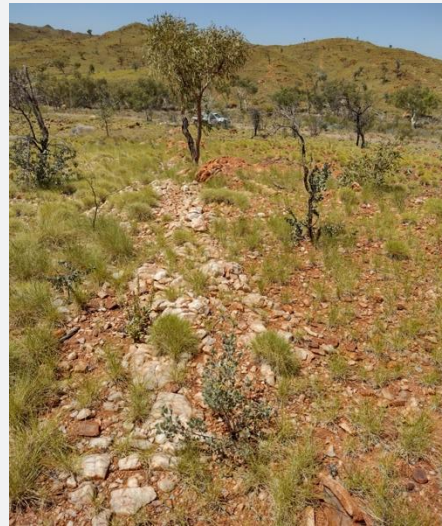
Lithium across the Cooletha Project

- **+100km² of lithium prospectivity**
- High value target areas set for immediate sampling mapping and drilling
- Greenstone/Granitoid contact and zoned pegmatite host, which are known to host economic lithium resources
- **Multiple spodumene fertile opportunities within mapped pegmatite swarms** and spodumene and lithium micas observed over a large area
- Tambourah Monzogranite hosts pegmatites across the northern half of the tenement area



Extensive Outcropping Pegmatites

- Pegmatite rich area presents many opportunities for discovery success over an area mostly devoid of exploration for many years
- Initial work has confirmed that the **swarms of pegmatites vary in width from several metres to a hundred metres** and express a linear continuity of up to several hundred metres
- Spodumene evident in rock chip samples

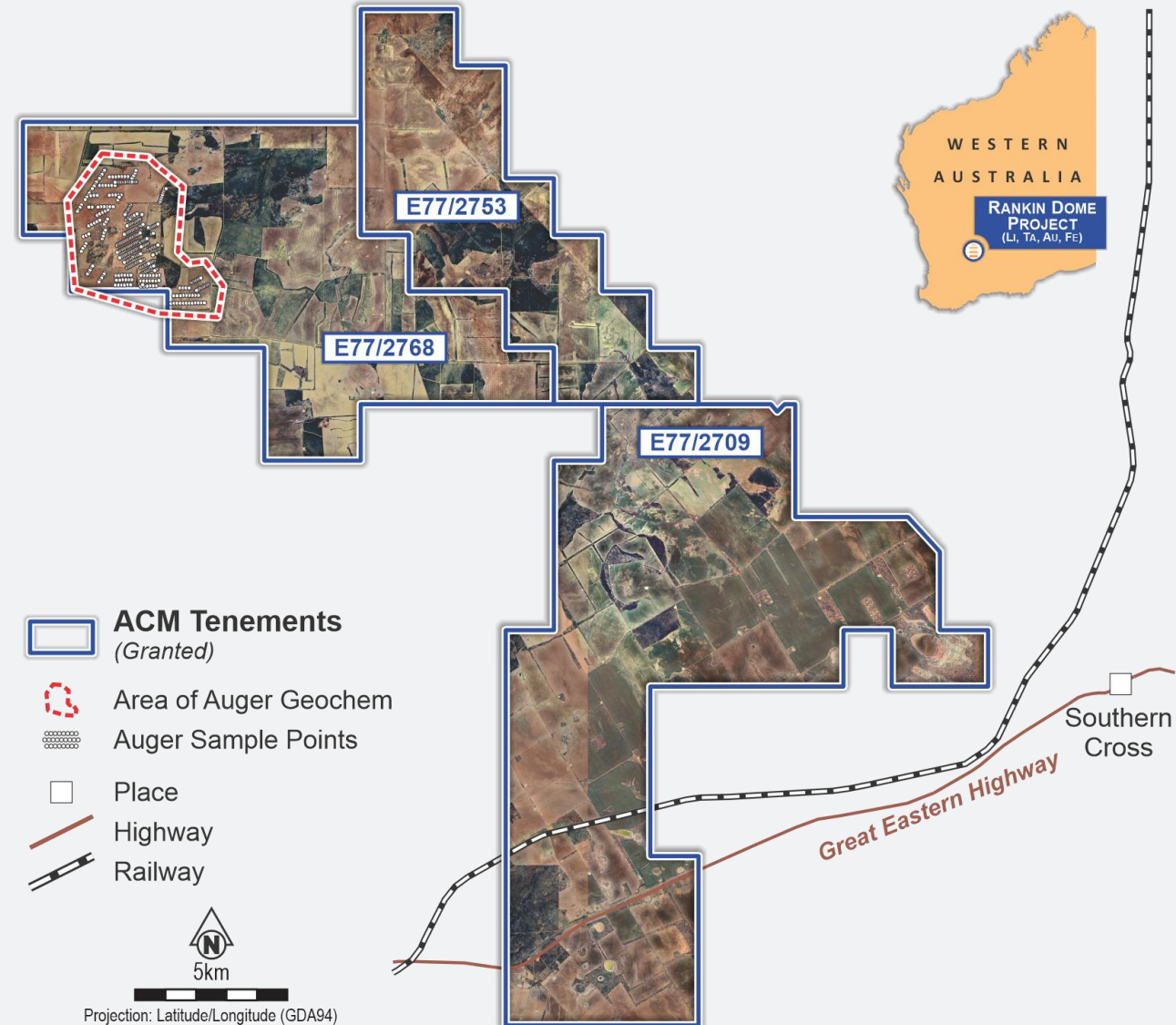


Spodumene (lithium) Sample CL010 in natural (A) and ultraviolet light (B). *Note this is an exposed sample (found at surface) and is indicative of the outcropping pegmatites in the area.*



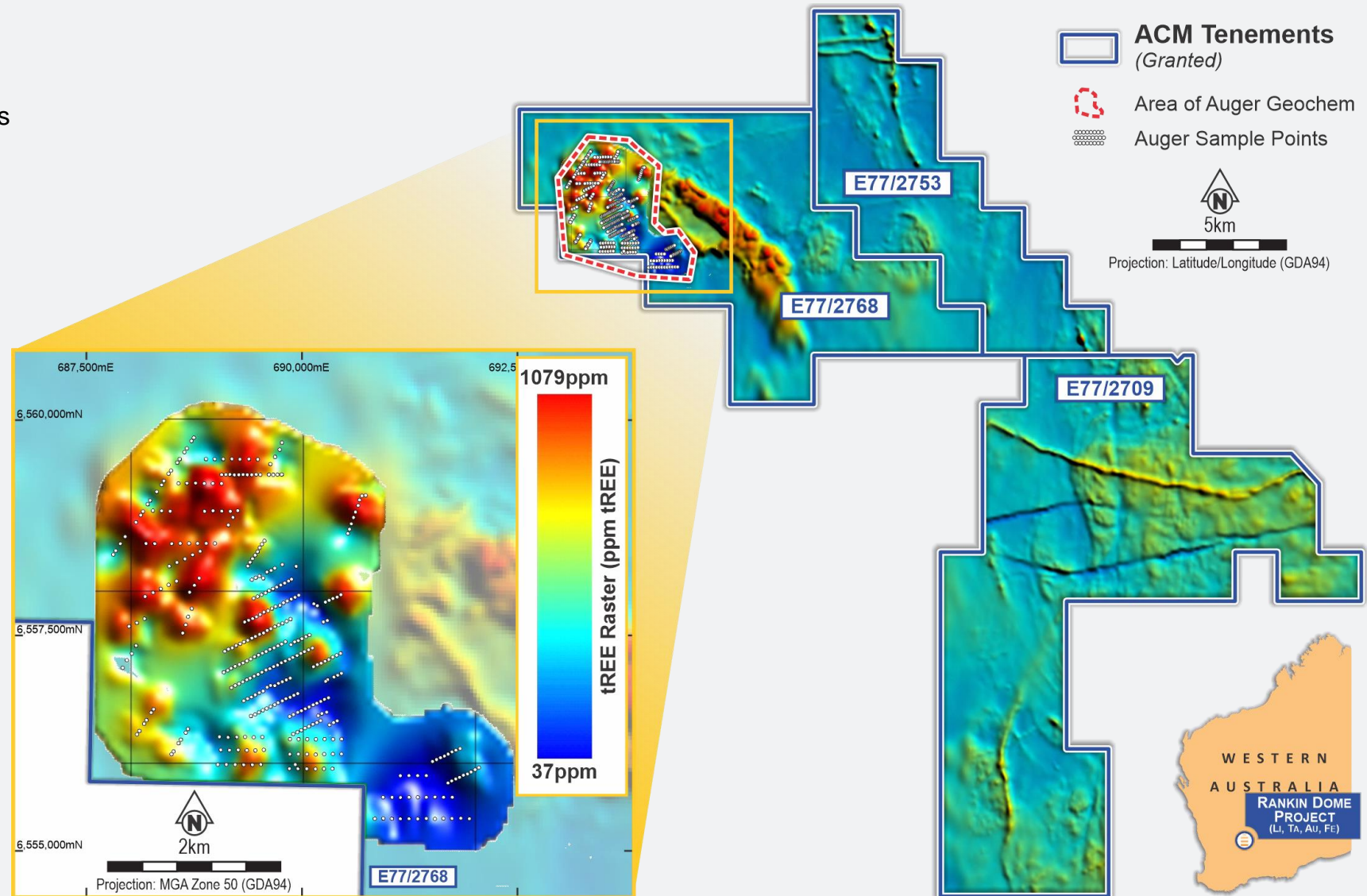
Rare Earths Rankin Dome Great Project, Great Logistics

- Drill Permission in place allowing for a drill campaign to commence shortly after listing
- Landowner Agreement in place
- Excellent early REE results with **shallow auger samples up to 1,080ppm**
- Located near Southern Cross - an established Mining Centre
- Close to Highway with good local access
- 51% Farm-in with Kula Gold (**ASX: KGD**)



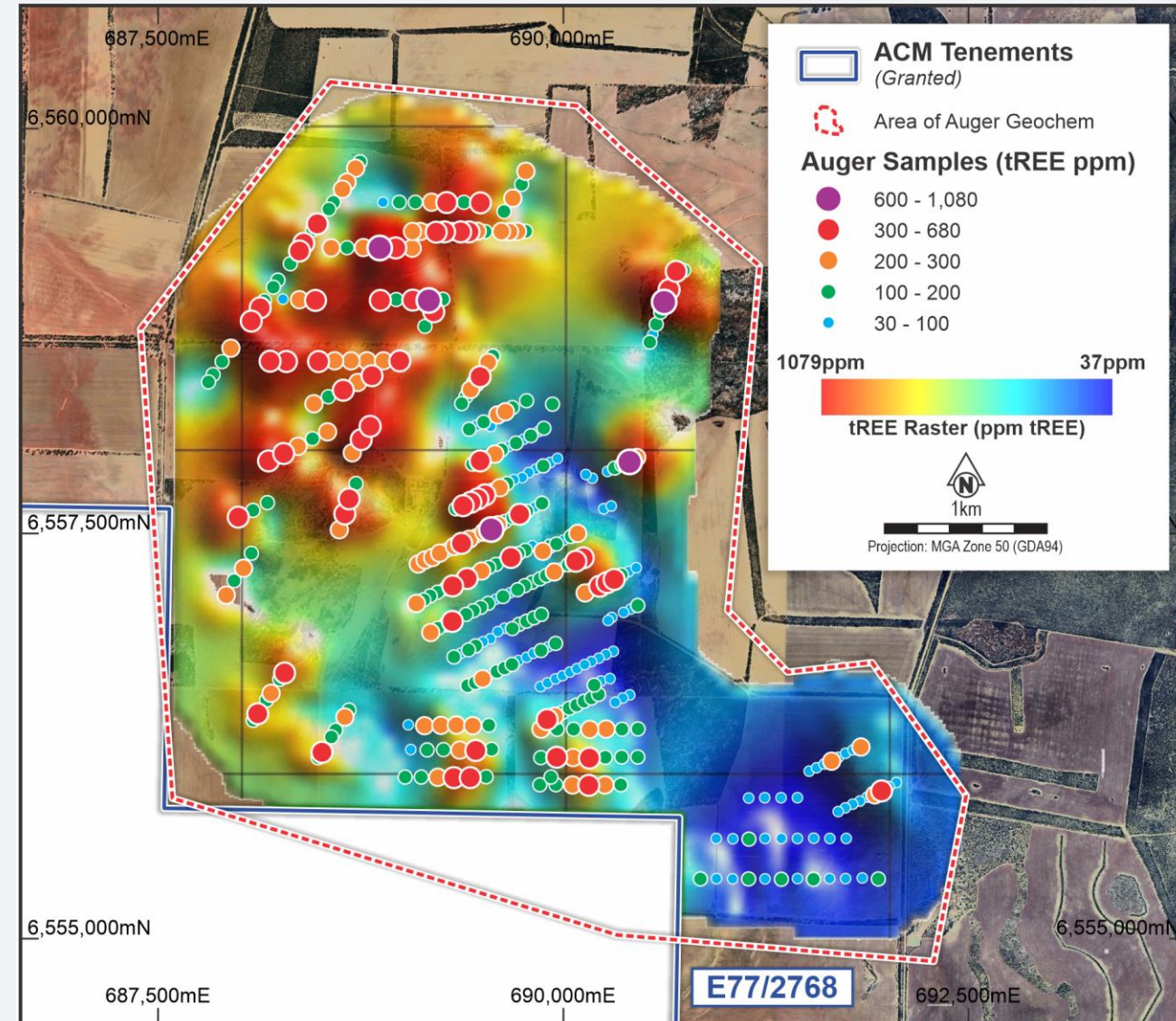
Rare Earths Rankin Dome Geophysics & Geochemistry

- Geochemistry matches structure & geophysics
- Very strong total REE (TREE) results
- +8x Crustal enrichment - **in soil!**
- **Strong chance of significant Rare Earth discovery**



☐ Rare Earths Rankin Dome Excellent First Pass Results

- Large +8km², highly anomalous TREE soil geochemistry
- **74% of samples above 115ppm TREE with a high of 1,080ppm**
- Potential for a significant discovery of a highly Critical Mineral group

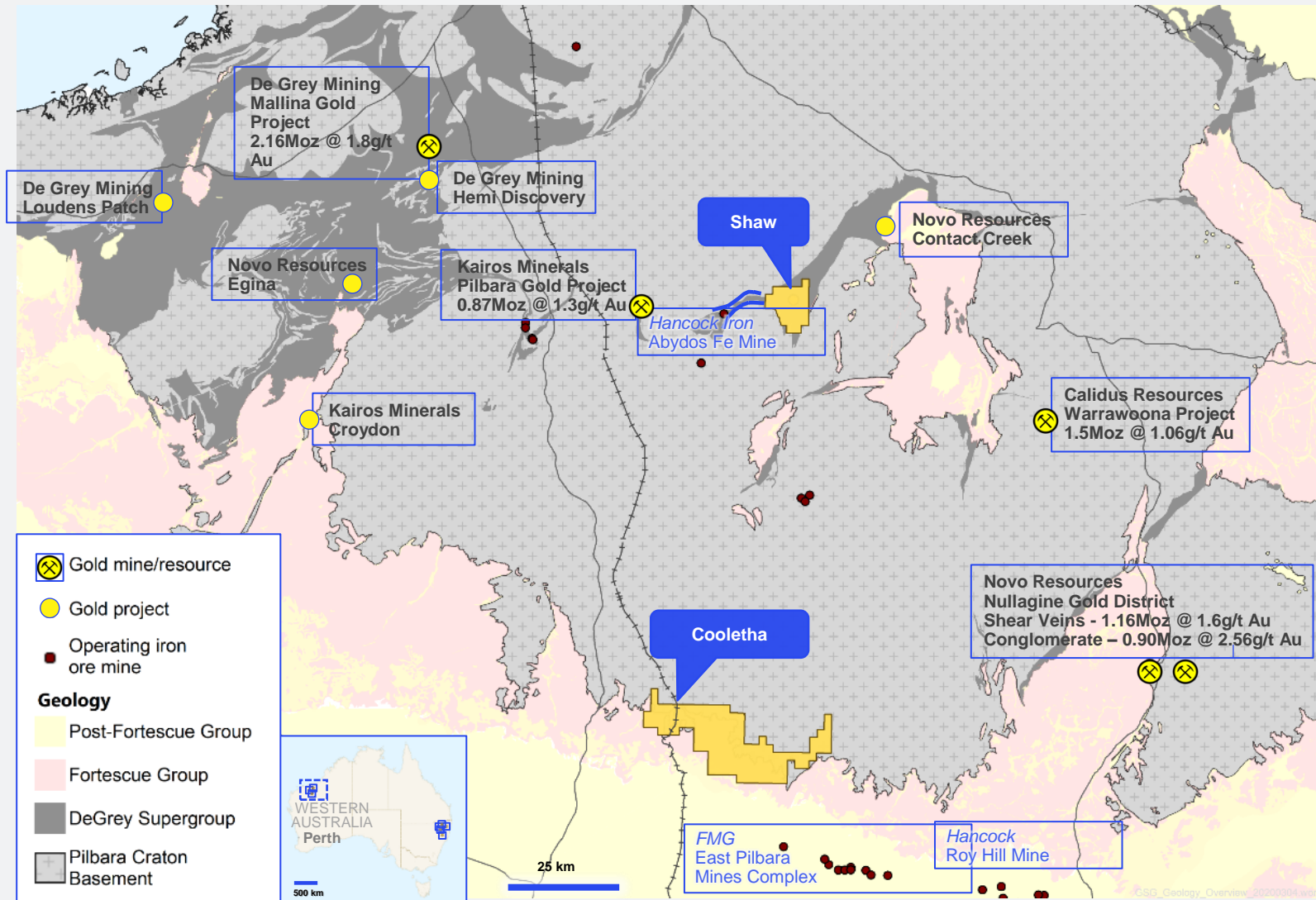


Pilbara Exploration Portfolio

- The Pilbara portfolio covers 494km² including the Shaw and Cooletha Projects
- 100% owned, district-scale projects prospective for:
 - Iron Ore
 - Gold
 - Lithium
 - Uranium
- Underexplored with modern exploration methods
- Land access agreements in place and infrastructure available to support exploration
- Potential to create substantial shareholder value

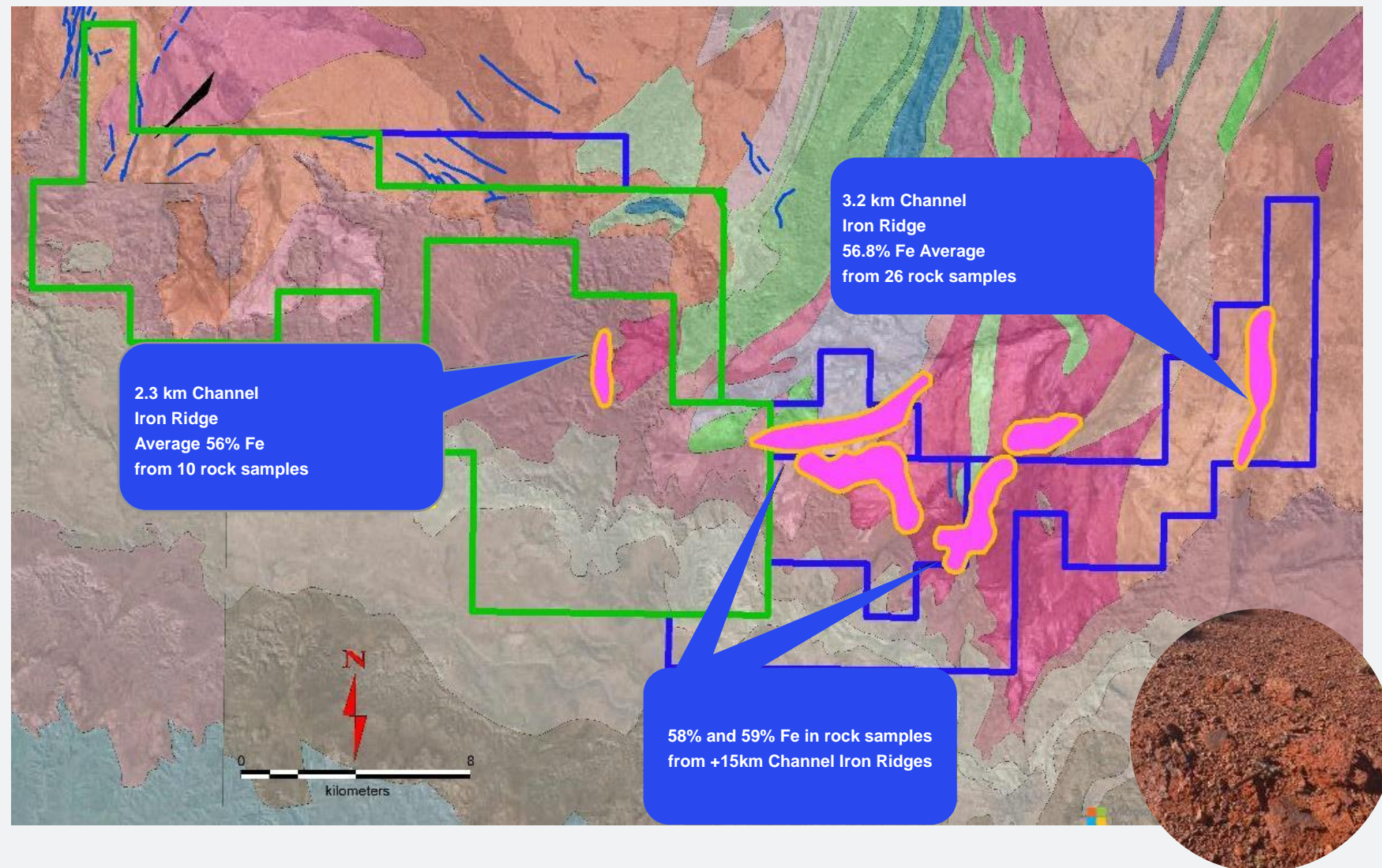
LOCATED AMONGST THE GIANTS –

adjoins **Hancock's Iron Abydos Mine**, close to **Fortescue's East Pilbara Complex** and **Hancock's Roy Hill Mine**



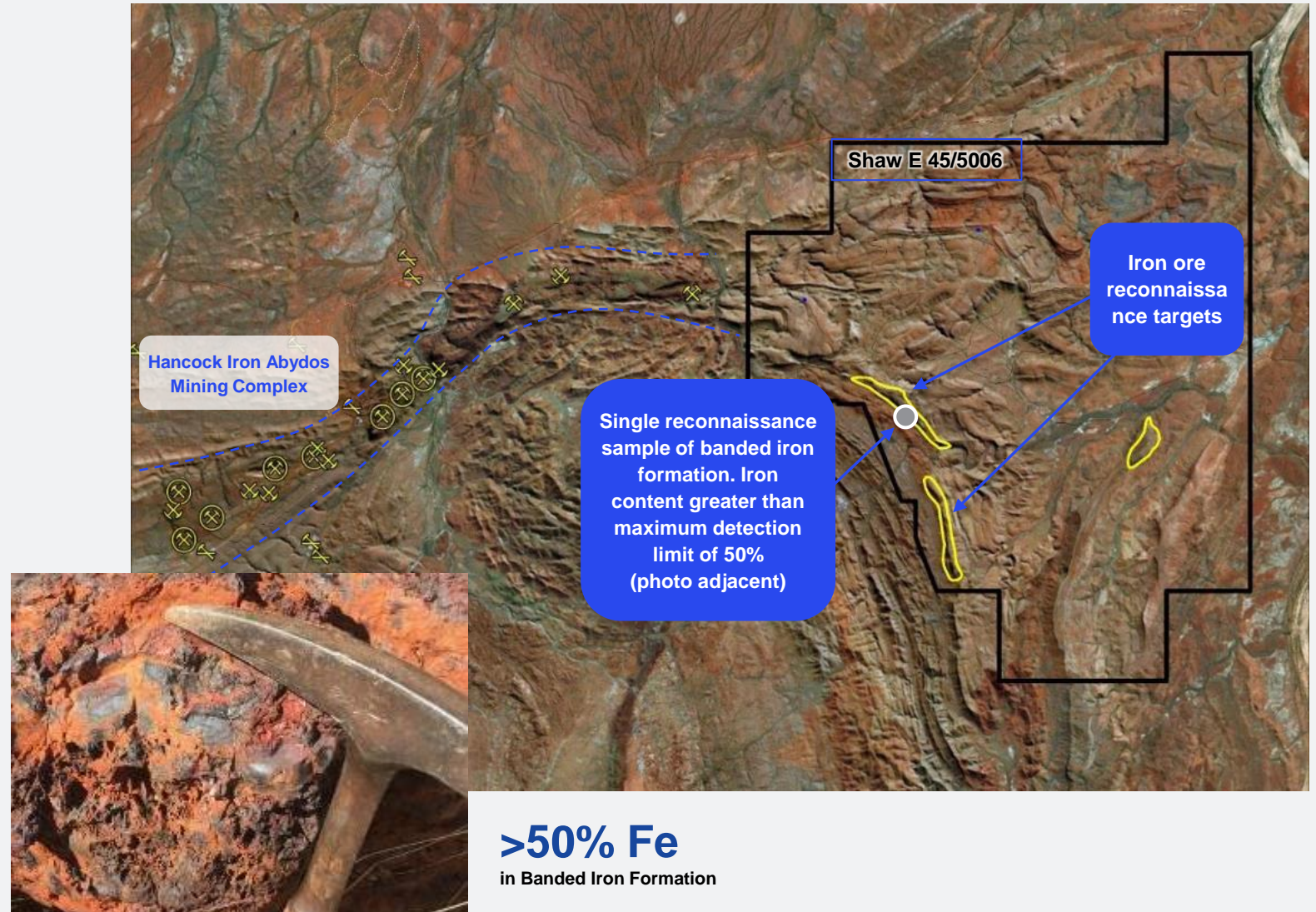
Cooletha Iron Ore Targets

- High grade iron ore targets over 400km²
- Advanced yet still under-explored targets with high grade Channel Iron Deposit (CID) potential
- +20km of Channel Iron ridges identified
- **Average grade 56% Fe across all ridges**
- If a substantial resource is defined it may be of significant value to miners in the area such Fortescue and Hancock Prospecting
- Advanced, high-resolution satellite-borne sensor mapping study completed
- Substantial sampling and drilling planned soon after listing



Shaw Iron Ore Targets

- Channel Iron Deposits (CID) and Banded Iron Formation (BIF) Targets
- Direct Shipping Ore Potential
- BIF assay exceeded maximum detection limit of 50% Fe
- **+5km of BIF and CID Exploration Targets**
- Close to mine site infrastructure
- Mapping and sampling to expand on known iron ore targets
- Drill target definition to follow sampling results



Moving Forward: Indicative Exploration Schedule

Exploration schedule delivering early, continuous and substantial news flow

	2023		2024				2025
	Q3	Q4	Q1	Q2	Q3	Q4	Q1
COOLETHA Li Sn Ta Sampling							
RANKIN DOME Drill under current POW							
COOLETHA Lithium and Iron Sampling Results							
RANKIN DOME REE Drilling Results							
COOLETHA CID Resource & Li Pegmatite Drilling							
RANKIN DOME Drill Site Prep							
SHAW CID ridges, BIF Mapping & Sampling							
COOLETHA Lithium & Iron Drilling Results							
SHAW Phase 1 BIF Drill							
SHAW BIF Drilling Results							
RANKIN DOME REE Drilling Results							
COOLETHA Lithium Resource Drilling							
RANKIN DOME REE Resource Drilling							
RANKIN DOME REE Extended Area Drilling							



Contact Information

Dean de Largie info@auscriticalminerals.com.au | +61 (08) 6165 8858

168 Stirling Highway, Nedlands WA 6009 | www.auscriticalminerals.com.au

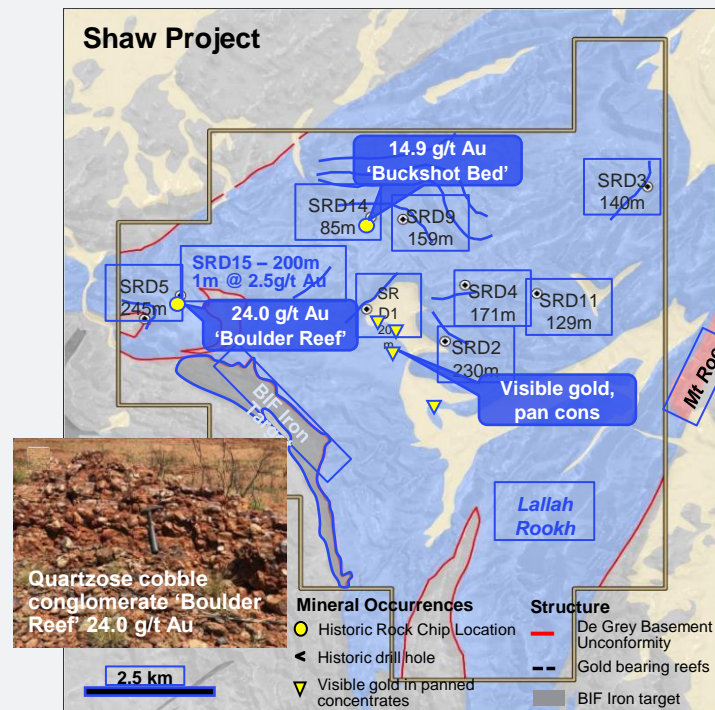
ASX:ACM

Appendix: Other Projects

- 2 other exciting prospective projects in Tier 1 mining jurisdictions:
 - ACM's Shaw Project sits among established gold miners and new discoveries, with grades up to 24g/t Au rock chips and 1m intersection @ 2.5g/t Au
 - Forget EVs - Cement production causes 8% of global emissions - more than the global car fleet – and through a simple process, metakaolin can reduce those emissions by 40%
 - ACM holds an expansive prospective kaolin packages - Initial samples exceed the average purity of peers with excellent whiteness and brightness

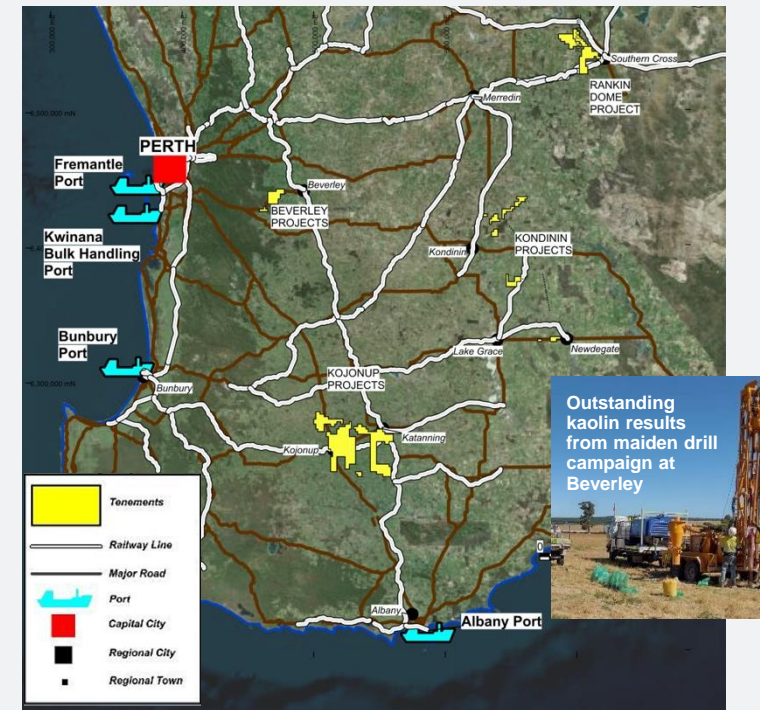
Sources:
 Kaolin Global Market Report 2022, The Business Research Company, September 2022
 Zero Carbon Industry Plan Rethinking Cement, Beyond Zero Emissions Inc., 2017
https://bze.org.au/research_release/rethinking-cement/

GOLD



- Exciting gold region, proximal to De Grey and Novo with new discovery by Kairos (ASX:KAI) of 0.87 M oz Au
- Up to 24 g/t Au rock chips, drill intersections up to 1m @ 2.5g/t Au and multiple visible gold panned
- Historically explorers had poor understanding of Witwatersrand style gold which led to incorrect drilling methods and unrepresentative drill results
- ACM targeting multiple stacked gold-bearing conglomerate reefs in the Archean Lalla Rookh Sandstone Formation
- Systematic, modern exploration program planned

KAOLIN



- Large (1,040km²) kaolin land package of highly prospective ELs
- Drilling at Beverley confirmed very-high-quality kaolin
- End-user analysis confirmed excellent purity, brightness and whiteness opening up a number of markets including paper and ceramics
- Samples exceed Wyoming Standard RP-2
- Private cleared land, with excellent access to road, rail, port, water and power
- Land access and POWs in place so further drilling can get underway immediately

Appendix: Tenement Status

CRITICAL

INDUSTRIAL

TENEMENT	PROJECT	COMMODITY	STATUS	ACM OWNERSHIP	HOLDER	AREA BLKS	AREA km ²
E 45/5228	COOLETHA	Lithium, Tantalum, Iron Ore, Gold	LIVE	100%	PROTEROZOIC GOLD PTY LTD	40	127.0
E 45/4990	COOLETHA	Lithium, Tantalum, Iron Ore, Gold	LIVE	100%	PROTEROZOIC GOLD PTY LTD	39	123.8
E 45/5052	COOLETHA	Lithium, Tantalum, Iron Ore	PENDING	100%	PROTEROZOIC GOLD PTY LTD	5	15.9
E 45/6375	COOLETHA	Lithium, Tantalum, Iron Ore, Gold	PENDING	100%	PROTEROZOIC GOLD PTY LTD	42	133.4
E 45/5006	SHAW	Iron Ore, Gold	LIVE	100%	PROTEROZOIC GOLD PTY LTD	29	90.0
E 77/2768	RANKIN DOME	Rare Earths	LIVE	51% JV	KULA GOLD LIMITED	36	105.8
E 77/2709	RANKIN DOME	Rare Earths	LIVE	51% JV	KULA GOLD LIMITED	55	160.8
E 77/2753	RANKIN DOME	Rare Earths	LIVE	51% JV	KULA GOLD LIMITED	22	64.7
E 70/5772	KOJONUP	Kaolin	LIVE	100%	BAYZEPHYR PTY LTD	51*	145*
E 70/5773	KOJONUP	Kaolin	LIVE	100%	BAYZEPHYR PTY LTD	132*	376*
E 70/5774	KOJONUP	Kaolin	LIVE	100%	BAYZEPHYR PTY LTD	5	14.2
E 70/5775	KOJONUP	Kaolin	LIVE	100%	BAYZEPHYR PTY LTD	171*	487*
E 70/5608	KONDININ	Kaolin	LIVE	100%	EVEXTRA PTY LTD	39*	112*
E 70/5609	KONDININ	Kaolin	LIVE	100%	EVEXTRA PTY LTD	58*	167*
E 70/5610	KONDININ	Kaolin	LIVE	100%	EVEXTRA PTY LTD	45*	130*
E 70/5574	BEVERLEY	Kaolin	LIVE	100%	NEWNATION HOLDINGS PTY LTD	34	98.7
E 70/6148	BEVERLEY	Kaolin	LIVE	100%	NEWNATION HOLDINGS PTY LTD	5	14.5
17 TENEMENTS	6 PROJECT AREAS	6 KEY COMMODITIES				874 Blocks	2,365 km ²

*Tenements are subject to voluntary relinquishment which is yet to be processed by the Department of Mines, Industry Regulation and Safety.