

ASX: ADC

Powering the Future with Innovative Mine-to-Market Solutions

RIU Explorers Conference | February 2024



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ACDC Corporate Strategy



Building a mine-to-market critical metals company with heavy mineral sand (HMS) assets and proprietary rare earth element (REE) processing technology.

Secure supply of critical metals is essential for the energy transition. Through an innovative business model, ACDC can play a pivotal role.



Why ACDC Metals?



Exposure to Energy transition and the demand for critical minerals

- ✓ Markets are demanding, and governments are supporting, rare earth supply chain development outside of China
- ✓ Rare earth market forecast for continual growth to 2030

Hitting our milestones and objectives and delivering results

- √ 13000 metres of air core drilling complete and assays received
- Maiden JORC resource complete for Goschen Central Project, rich in key minerals, resource remains open and opportunity for upgrade
- ✓ Scoping Studies in progress

Well Financed

✓ Q4 2023 \$4.9M cash

Our differentiator, Rare Earth Element Extraction

- ✓ Rare Earth Processing plant (REPP) project
- ✓ Targeting Rare Earth Element carbonate & Phosphate production
- ✓ ESG Waste management advantages over competing technologies



Experienced Board & Management Team





Tom Davidson

Chief Executive Officer

Engineer & Development



Andrew Shearer

Non-Executive Director and Chair

Geologist & Corporate



Mark Saxon

Executive Director

Geologist & Corporate



Ivan Fairhall

Non-Executive Director

Engineer & Corporate



Richard Boyce

Non-Executive Director

Finance & Governance



Kent Balas
Exploration Manager
Geologist



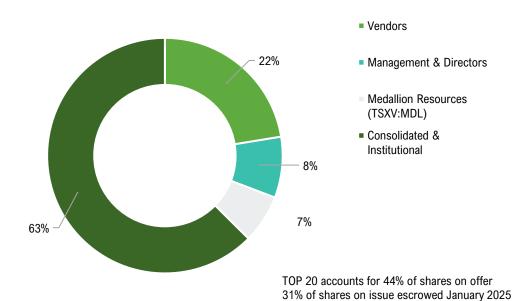
Andrew Draffin
Corporate Secretary
Governance

Corporate Structure



Capital Structure					
Shares on issue	72,305,130				
Share price (9 Feb 2024)	\$0.061				
Market Capitalisation	\$4.56 M				
Cash (Q4 2023)	\$4.9 M				
Debt	Zero				
EV	\$-0.34 M				
Options					
Listed ADCO, \$0.30 expiring April 25	38,152,565				
Other, \$0.30 expiring Jan 26	9,550,000				

ACDC Share Register



Key Assets	ACDC Metals Ownership
Goschen Central Project	80%
Watchem Project	100%
North Watchem Project	80%
Douglas Project	80%





What are Mineral Sands





Zircon

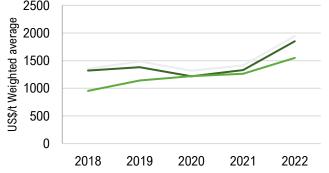




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Ilmenite (FeTiO₃)

Titanium Minerals

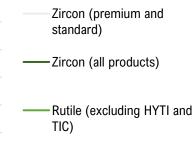
















(Y)PO₄

Monazite

Xenotime







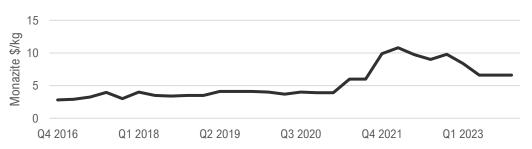






One mine. Thousands of products Source: Minerals Council of Australia

Monazite TREO - 60%



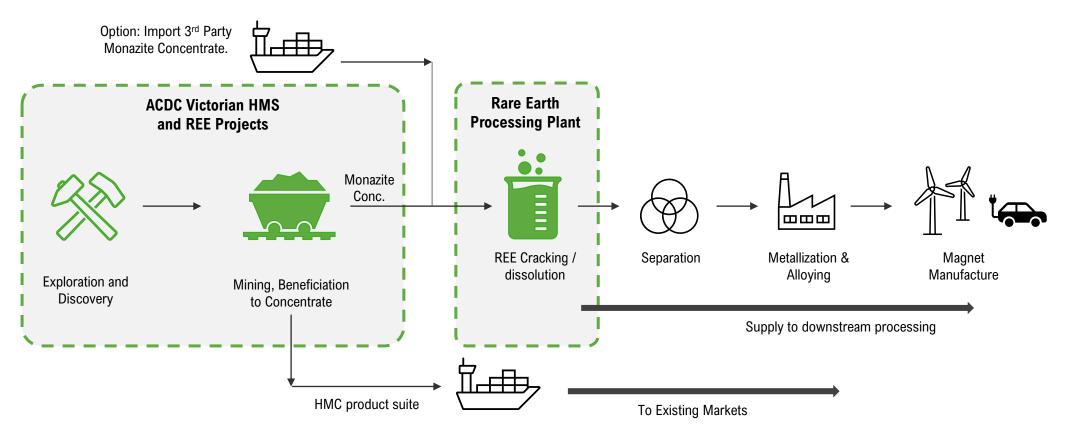
Source: https://giti.sg/products/rare-earths/Mzn/



Source: Iluka Resources FY22 Annual Report

ACDC Metals Strategy: Mine to Magnet





- ADCD controls 3 prospective HMS and REE projects with extensive drilling in an established district
- Traditionally monazite concentrates are exported from the mining operation to Asia for extraction of rare earths.
- The REPP project enhances value capture and enables this to happen in Australia.
- The ACDC Metals business strategy will provide downstream opportunities for Australia

Mineral Sands Projects





- Mineral sands assets all located in western
 Victoria on the edge of the Murray Basin mineral sands district
- Projects all close to current or historic mineral sands operations
- Clear access and wide roadside verges for low impact exploration
- Over 15,500 metres drilled since ACDC inception

	2023	2024
Project	Metres completed	Metres completed
Goschen Central	6,965	2,922
Watchem	3,530	
North Watchem		Planned in February
Douglas	2,116	Planned in March
TOTAL	12,611	2,922**

^{*2024} drill program in progress

^{**}Total program targeting 7,500 metres. Refer to ASX announcement, "ACDC Metals commences drilling at 3 projects", 17 January 2024.



Goschen Central Project – Maiden Resource

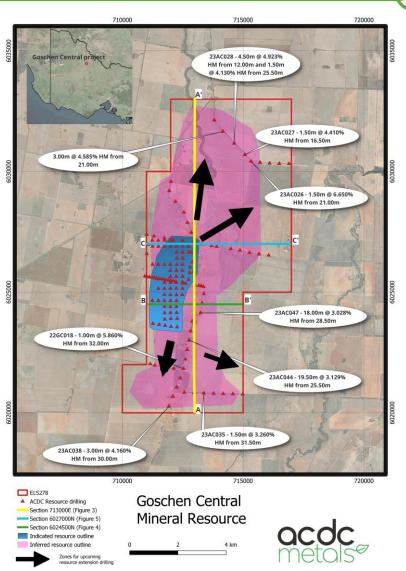


Results

- 628Mt @ 1.9% THM (total heavy mineral)
 - 'Indicated' 130Mt @ 2.0% THM
 - 'Inferred' 498Mt @ 1.9% THM
- ~21% of Total rare earth oxide (TREO) is made up of valuable Magnet rare earth oxide (MREO)
- High mineral assemblage; key minerals **Zircon** 24% and **Monazite** 3.7%

Upside

- Resource remain open on 3 sides, further extension drilling to extend 'indicated' zone and grade.
- Resource based on 38µm to 1mm HM particle
- Further opportunity for fine fraction capture 20µm 38µm

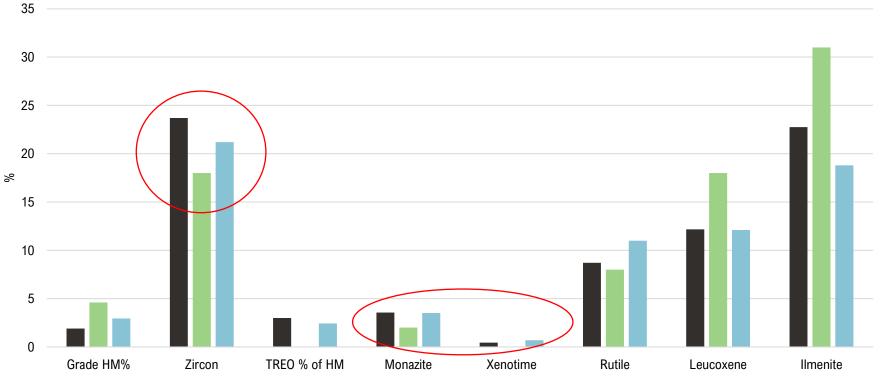


For Mineral Resource details refer to ASX announcement 8 November, 2023

Goschen Central Project compares well against peers



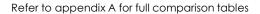






Results

- Key minerals of focus:
 - Zircon
 - Monazite
 - Xenotime
- High assemblage of magnet rare earth oxides
 - Pr 4.1%
 - Nd 14.6%
 - **Dy** 2.5%
 - **Tb** 0.4%



Goschen Central Project



✓ Scoping Study underway – targeting Q1 2024

- ✓ Multi-decade operation
- ✓ Target high grade ore in early years of operation to maximise project economics.
- ✓ Include all infrastructure needed to build and operate the project.
- ✓ Producing separated heavy mineral and rare earth concentrates.

✓ Pilot plant in progress

- ✓ 2.5t of metallurgical sample currently being processed at Mineral Technologies plant.
- ✓ Metallurgical testwork to be conducted to prepare for next phase of engineering.
- Products to be produced to enable quality testing with customers and supply monazite for REPP project.

Contributing consultants

Testwork / Process & Infrastructure Engineering



Environmental



Mining



Geology & Resource

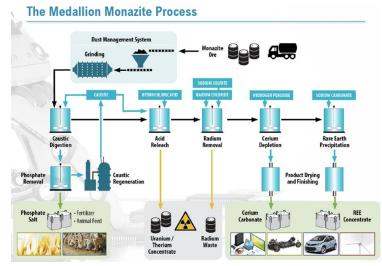




Rare Earths Processing Plant Project



- Scoping Study underway targeting Q1 2024
 - ✓ Benefit of past 6 years of testwork
 - ✓ Vertically integrated with Goschen Central project or merchant operation
 - ✓ Nameplate capacity over 3,500 tonnes of mixed rare earth oxide
 - Strong ESG advantages over competing technologies:
 - Waste generation minimised
 - ✓ Ability to separate future products from waste stream
 - Localisation study has been conducted, objective to identify pathway to permitting and availability of supporting infrastructure
- ✓ Pre-Validation testwork program
 - Testwork program to be completed at ANSTO
 - ✓ Monazite to be supplied from Goschen central along with other sources
 - ✓ Program will enable next phase of engineering to be completed.



Contributing Consultants

Hydrometallurgical



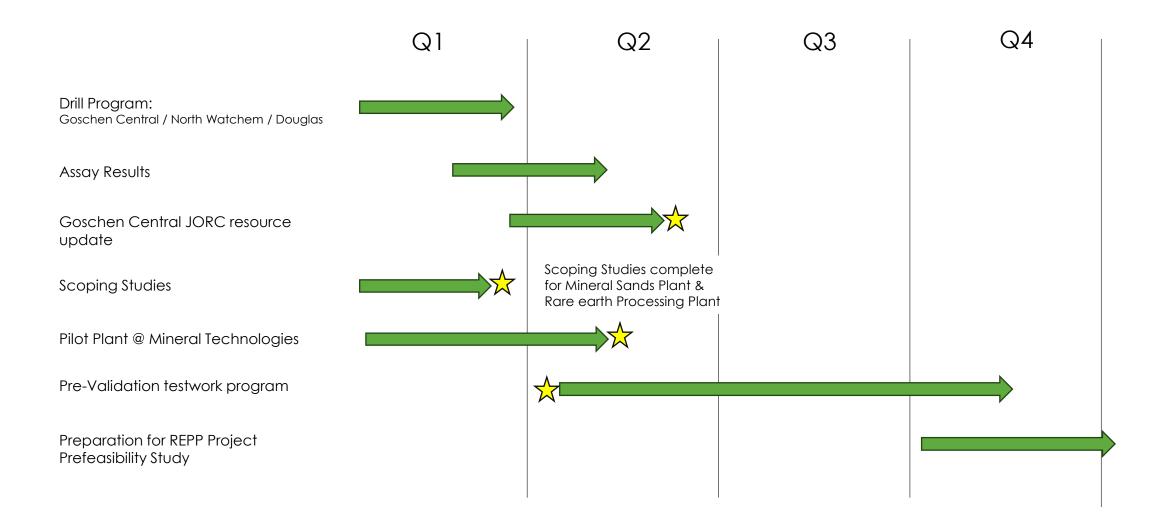
Environmental





Work Plan for CY2024







Investment Summary



Corporate

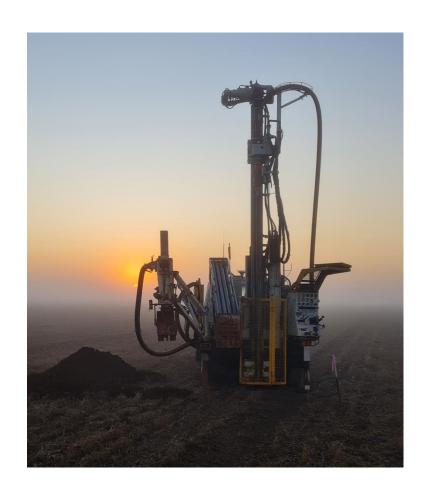
- ✓ **Strong team** with history of project development
- ✓ Cash balance of \$4.9m to execute plan

Execution

- ✓ Over 15,500 metres of Air core drilling complete
- ✓ Maiden JORC resource complete at Goschen central
- ✓ Concept studies commenced and scheduled for completion Q1 2024

Business Model

- Exposure to Energy transition and the demand for critical minerals
- ✓ Mine to Magnet Strategy enhances value capture
- ✓ Downstream opportunities and supply chain security for Australia





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Appendix A

Peer Comparison data



Peer comparison data



Mineral Assemblage

			% of HM											
	Grade HM%	Rutile	Leucoxene	Ilmenite	Zircon	Monazite	Xenotime	TREO						
ACDC Metals Ltd			•											
Inferred	1.9	8.6	13	23	24	3.5	0.42	3.0						
Indicated	2.0	9.2	10	22	24	3.7	0.44	3.0						
Astron Ltd														
Inferred	4.7	9	17	33	18	2.0	-	NIA						
Indicated	4.5	8	18	31	17	2.0	-	NA						
Measured	4.6	8	22	25	18	1.9	-							
VHM Ltd														
Inferred	2.61	11.8	15.4	13.1	20.6	3.4	0.7	2.52						
Indicated	3.19	10.1	8.6	24.9	20.5	3.4	0.7	2.27						
Measured	5.72	10.8	9.0	24.7	29.9	4.3	0.8	2.72						

Astron Ltd – ASX announcement https://www.astronlimited.com.au/wp-content/uploads/2023/05/230516-ATR-Investment-Presentation.pdf VHM Ltd - ASX announcement – IMARC presentation - https://wcsecure.weblink.com.au/pdf/VHM/02733487.pdf

Appendix B

JORC Tables



Company Mineral Resource



628Mt Goschen Central Project Mineral Resource Estimate

		nt) Total HM %					% of to	tal HM				
Classification	Tonnes (Mt)		Slimes %	Oversize %	Mineral Assemblage							
					Rutile	Leucoxene	Ilmenite	Zircon	Monazite	Xenotime		
Indicated	130	2.0	19	4.1	9.2	10	22	24	3.7	0.42		
Inferred	498	1.9	20	4.1	8.6	13	23	24	3.5	0.44		
Total	628	1.9	20	4.1	8.7	12	23	24	3.6	0.44		

	% of total HM																
Classification	fication Rare Earth Oxides																
	Y203	La203	CeO2	Pr203	Nd203	Sm203	Eu203	Gd203	Tb203	Dy203	Ho203	Er203	Tm203	Yb203	Lu203	TREO	TREO - CeO2
Indicated	0.52	0.50	1.1	0.12	0.44	0.081	0.0043	0.081	0.011	0.076	0.016	0.052	0.008	0.054	0.009	3.0	2.0
Inferred	0.51	0.49	1.0	0.12	0.44	0.081	0.0041	0.080	0.011	0.075	0.016	0.050	0.008	0.053	0.008	3.0	1.9
Total	0.51	0.49	1.0	0.12	0.44	0.081	0.0042	0.080	0.011	0.075	0.016	0.051	0.008	0.053	0.008	3.0	1.9

Notes

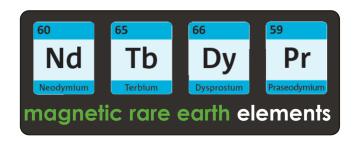
- 1. Mineralisation reported above a cut-off grade of 1.0% total heavy minerals (HM).
- 2. The Mineral Resource has been classified and reported in accordance with the guidelines of the JORC Code (2012).
- 3. Total HM is from within the +38 µm to 1 mm size fraction and is reported as a percentage of the total material. Slimes is the +38 µm fraction and oversize is the +1 mm fraction.
- 4. Estimates of the mineral assemblage (rutile, leucoxene, ilmenite, zircon, monazite and xenotime) and are presented as percentages of the total HM component, as determined from XRF and QEMScan analysis. QEMScan data used the following breakpoints are used for definition of the titania minerals: rutile >98% TiO2, leucoxene: 70 to 98% TiO2 and ilmenite: 45 to 70% TiO2.
- 5. Rare Earth Oxides are from XRF data and are presented as percentages of the total HM component.
- 6. All tonnages and grades have been rounded to reflect the relative uncertainty of the estimate, thus sum of columns may not equal.



^{*}The Mineral Resource estimate was prepared and first disclosed in the ASX release dated 8 November 2023

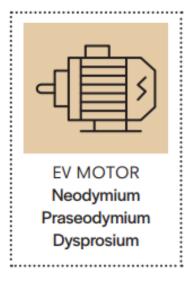
Key Rare Earths

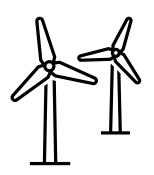






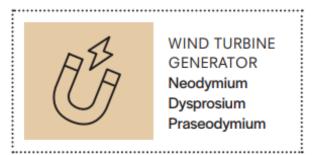
Hybrid and electric cars... will increasingly drive demand for rare earths metals. Bloomberg New Energy Finance estimates EVs will account for 2 per cent of the market by 2020, 8 per cent by 2025 and 20 per cent by 2030.





Wind turbines ... can use up to 2 tonnes of rare earth permanent magnets. Around 30 per cent of global growth in the use of rare earth magnets from 2015 to 2025 is expected to come from the wind energy industry.

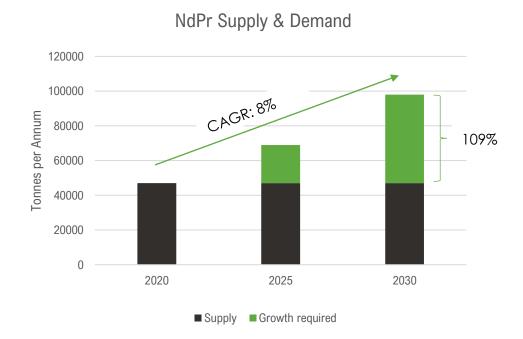
Source: Lynas Corporation



The REE Opportunity



 REE supply and demand deficit emerging to support the energy transition



1. Source Arafura website https://www.arultd.com/products/supply-and-demand/

- China dominates the REE sector, over 80% of downstream processing¹
- Desire by government & public to reduce the reliance on Chinese supply chain
 - Australia
 - \$1.25B loan to Iluka Resources (ASX:ILU)³
 - \$50M Critical minerals grant 2023
 - USA
 - Infrastructure and Jobs act: \$407M USD, Oct 2022
 - Inflation reduction act: \$500B USD, Aug 2022
- Downstream processing represents large value capture opportunities
- Over 85% of rare earth magnet value is post mining + beneficiation activities²



^{1.} From rare earths mining to wind turbine manufacturing: estimated market shares in 2019. Sources: Team analysis and Roskill 2018; Adamas Intelligence 2019; Peteves 2017; Carrara et al. 2020; IEA 2021; USGS 2021

^{2.} Source Medallion Resources (TSXV:MDL) research

^{3.} https://www.exportfinance.gov.au/newsroom/transforming-australia-s-critical-minerals-sector/

Murray Basin





- The Murray Basin formed by the inland sea
 50 60Million years ago
- Active area of operations and exploration and development
- Some selected projects shown