



ASX: ADC

Powering the Future with Innovative Mine-to-Market Solutions

IMARC Sydney | Oct 2024



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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.



To date

- ✓ Listed in **January 2023**.
- ✓ **23,500 metres** of air core drilling complete across our projects and assays received and reported.
- ✓ Significant **strandline discoveries** at Watchem North and Douglas
- ✓ **Maiden JORC resource** complete for Goschen Central Project in November 2023.
- ✓ **Scoping Studies** underway for vertically integrated Goschen Central Project.
- ✓ **Piloting** underway at Mineral Technologies.

The opportunity

- ✓ **Exposure to Energy transition minerals**, Goschen Central resource contains both light (NdPr) and heavy (DyTb) rare earths mineralised in sands.
- ✓ **Rare earth** market forecast for continual growth to 2030
- ✓ Western Victoria **building momentum**



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



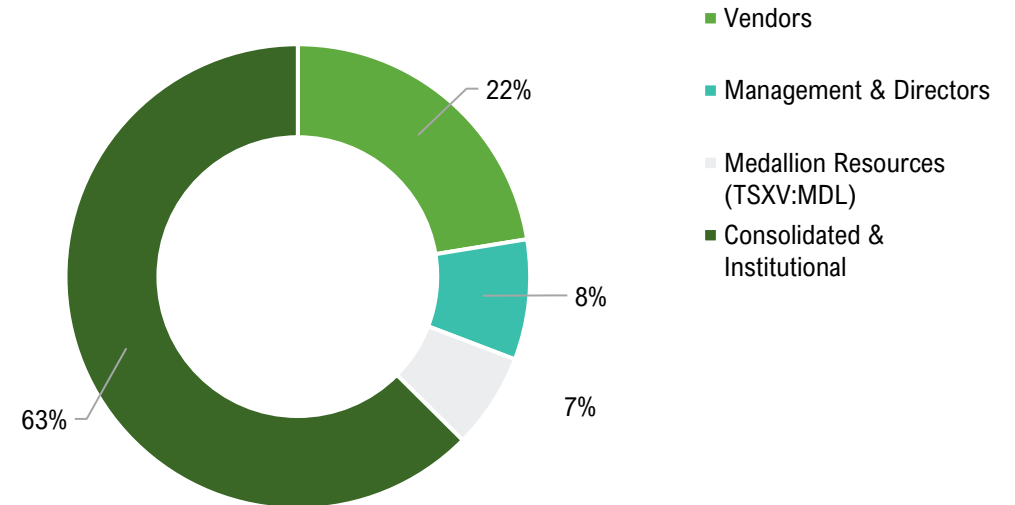
Andrew Draffin
Corporate Secretary
Governance

Corporate Structure



Capital Structure	
Shares on issue	72,305,130
Share price (24 Oct 2024)	\$0.07
Market Capitalisation	\$5.06 M
Cash (Q3 CY2024)	\$3.06 M
Debt	Zero
EV	\$2.0 M
Options	
Listed ADCO, \$0.30 expiring April 25	38,152,565
Other, \$0.30 expiring Jan 26	9,550,000

ACDC Share Register



- **ASX listed** January 2023
- Registered Office **Melbourne VIC**
- Projects held in Victoria
- TOP 20 accounts for **65%** of shares on offer

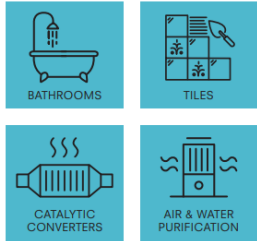


What are Mineral Sands



Zircon (ZrSiO₄)

Zircon



Rutile (TiO₂)



Ilmenite (FeTiO₃)

Titanium Minerals



Monazite
(Ce, La)PO₄

Monazite



Xenotime
(Y)PO₄

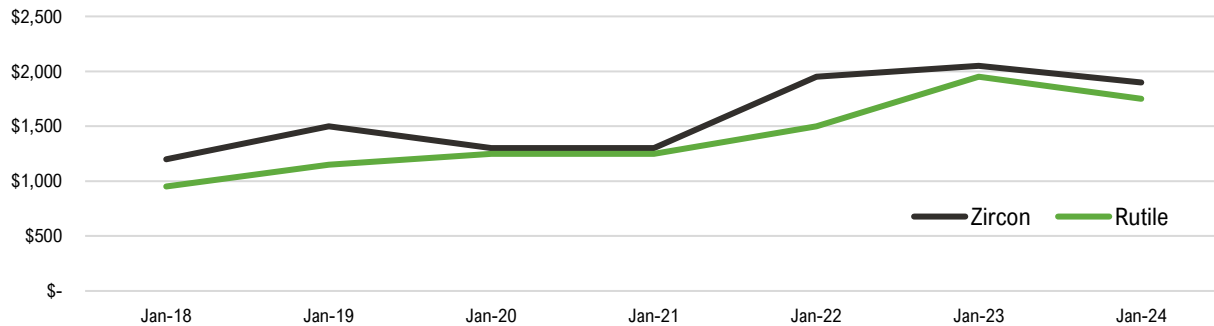
Xenotime

Rare earth elements Most of the 17 rare earth elements can be extracted from mineral sands.



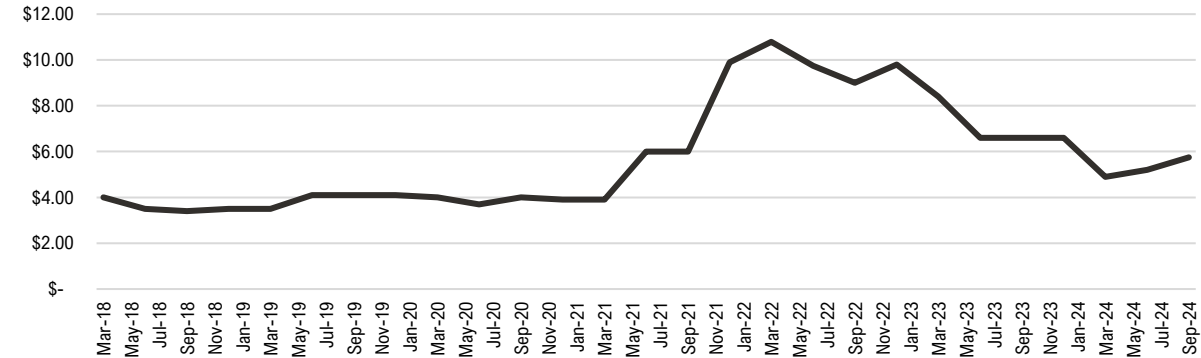
One mine. Thousands of products
Source: Minerals Council of Australia

Zircon and Rutile Pricing (USD/t FOB)



Source: Iluka Resources FY24 Half year results presentation

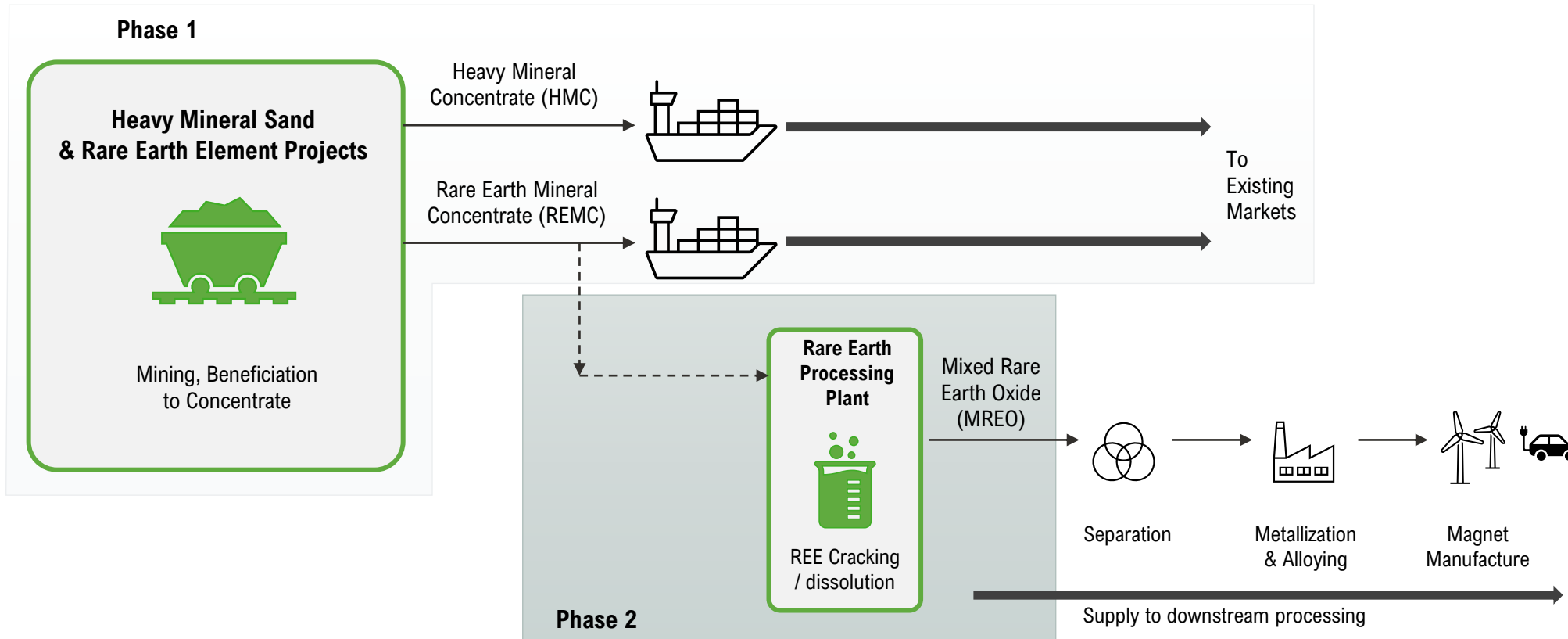
Monazite TREO - 60% (USD/kg)



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

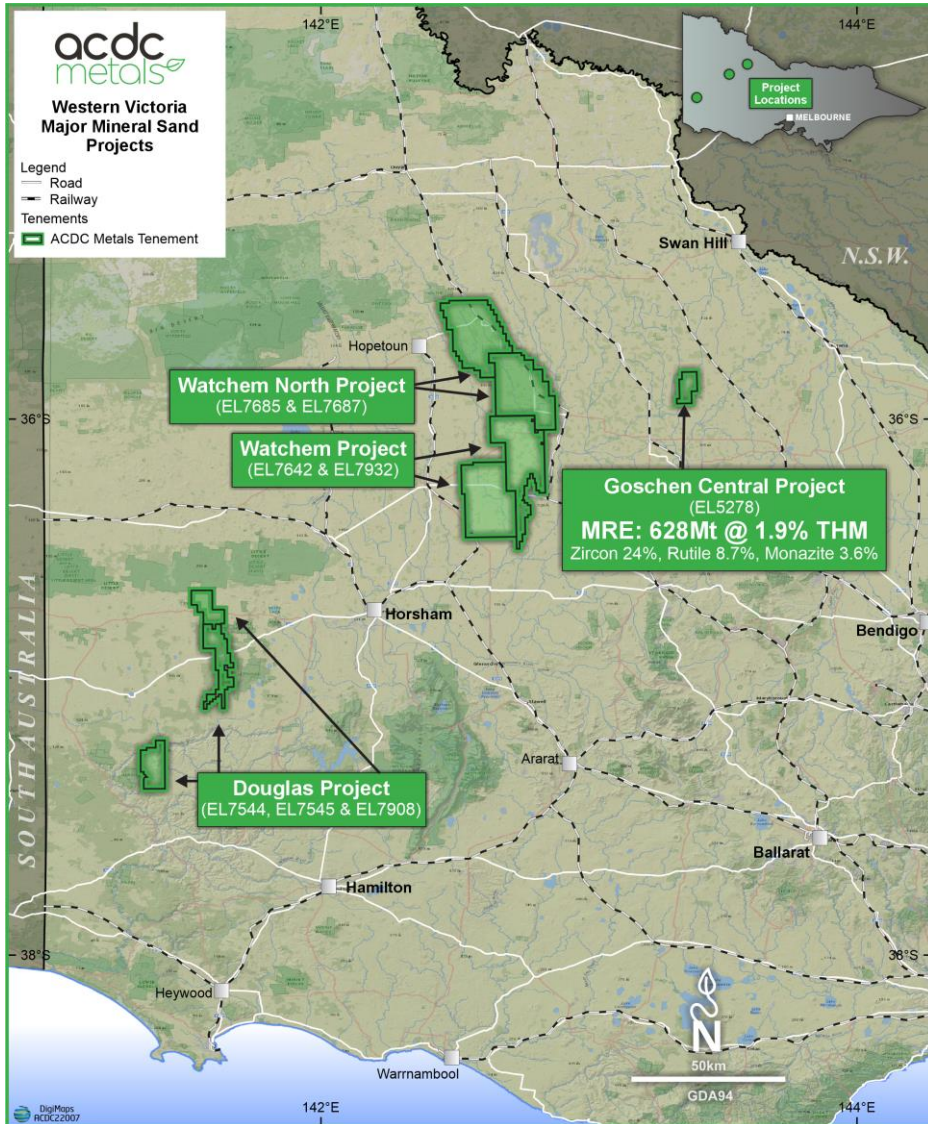


ACDC Metals Strategy: Mine to Magnet



- ACDC 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.
- All projects well located with supporting infrastructure; rail, road, power and water.
- Exploration friendly region.
- **Over 23,500 metres drilled since ACDC inception**

Project	ACDC Ownership	Metres completed	
		2023	2024
Goschen Central	80%	6,965	2,922
Watchem	100%	3,530	
North Watchem	80%		7,214
Douglas	80%	2,116	1,191
TOTAL		12,611	11,327



Goschen Central Project – Mineral Resource

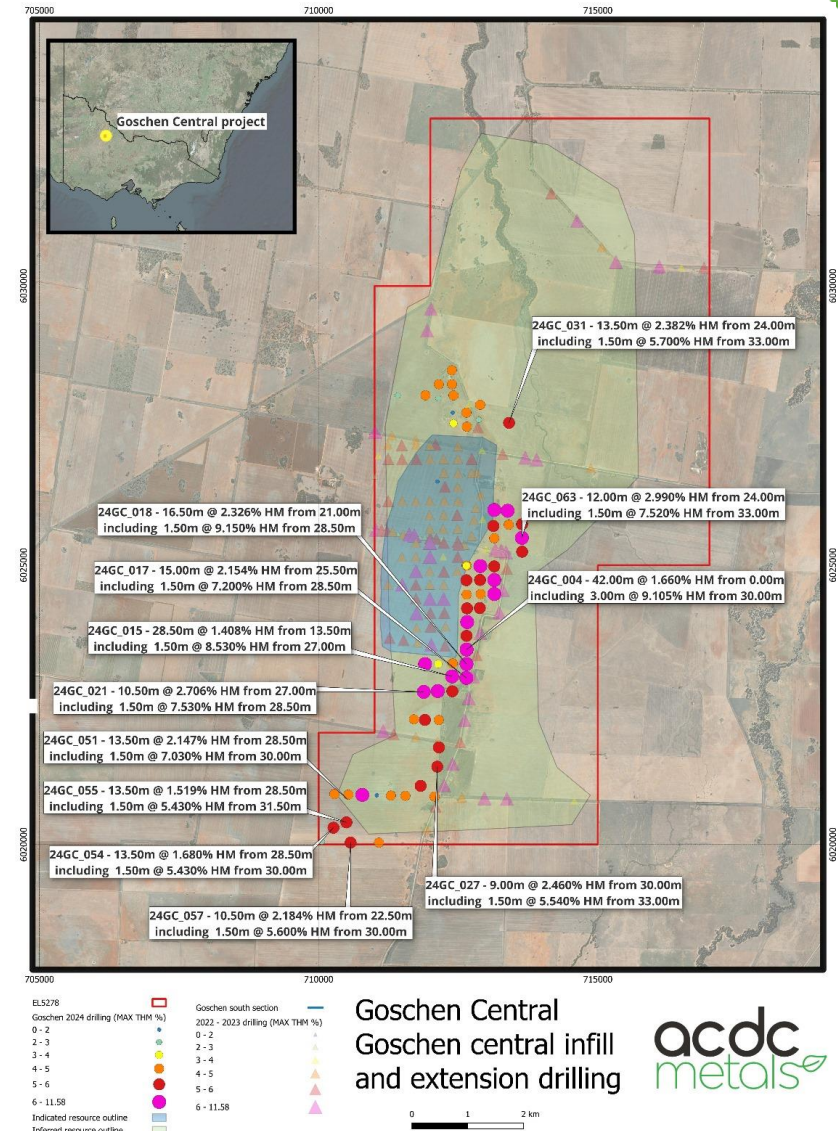


2023 Results

- 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%
- Resource based on 38µm to 1mm size fraction.
- **Upside:** Resource remain open on 3 sides, further extension drilling to extend ‘indicated’ zone and grade.

2024 work program

- MRE update in progress, including additional 2,922 metres of drilling. Targeting Q4 CY2024
- Piloting program at Mineral Technologies nearing completion, full product suite produced, and quality testing to be delivered.



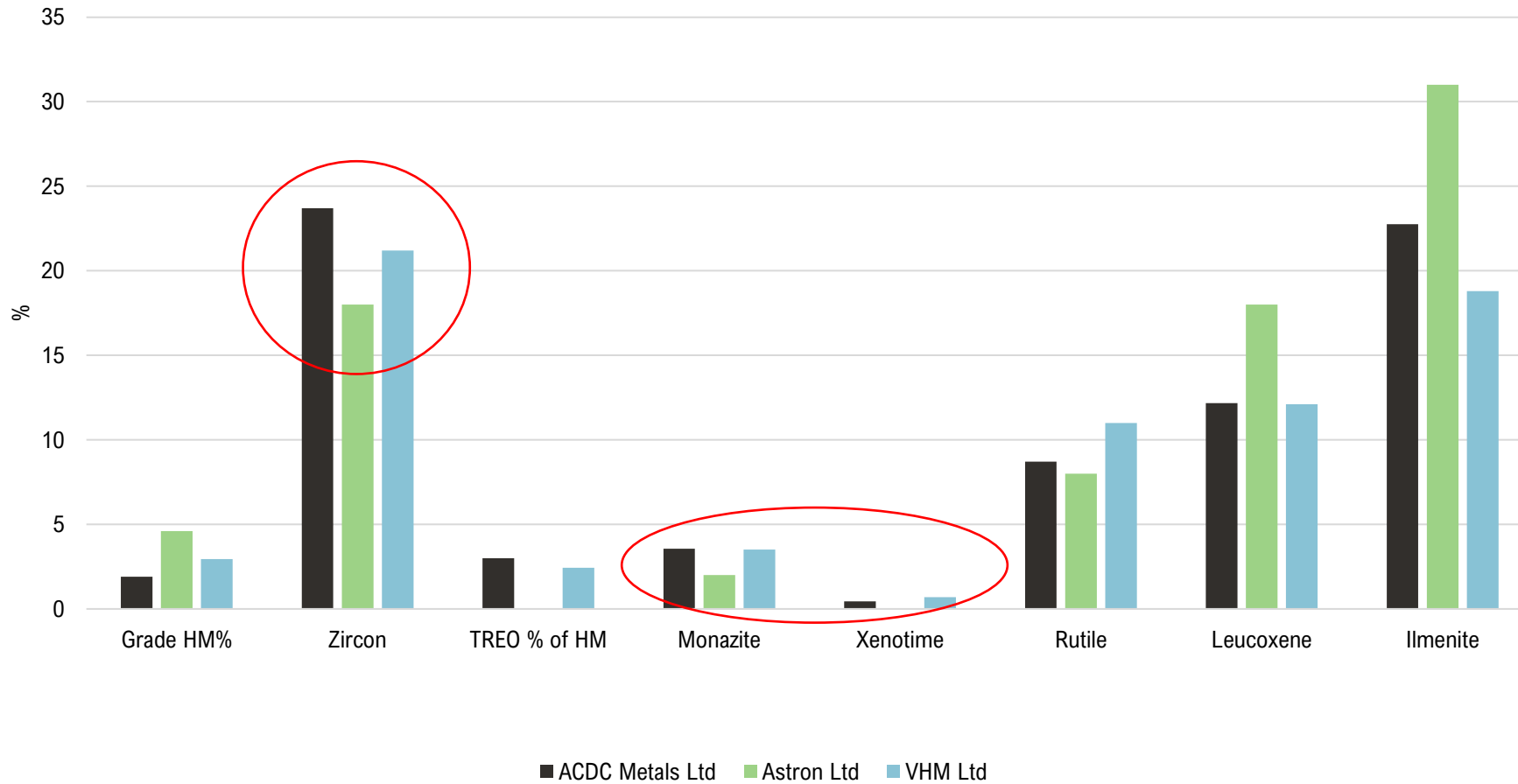
For Mineral Resource details refer to ASX announcement 8 November 2023.
 2024 drilling results refer to ASX announcement 15 March 2024.



Goschen Central Project compares well against peers



Mineral Assemblage of Resources



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%

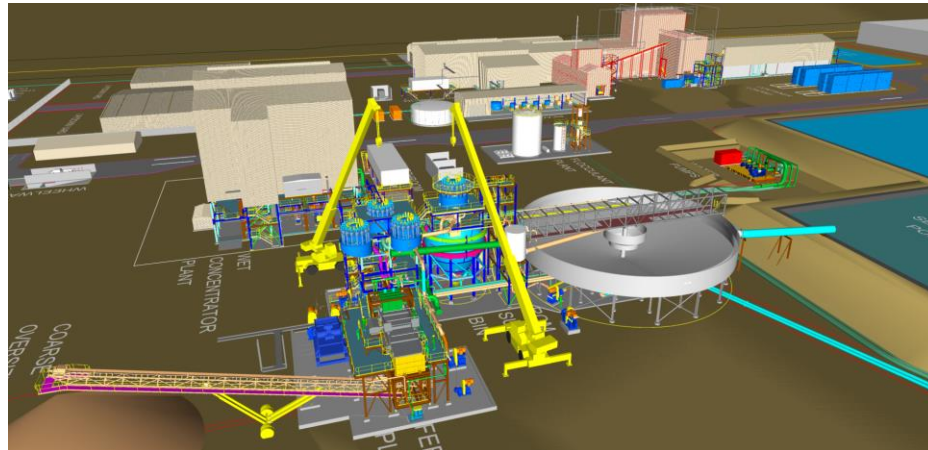
Refer to appendix A for full comparison tables



Goschen Central Project – Scoping Study



- Scoping Study will incorporate updated MRE.
- Two phase approach:
 - Phase 1 delivers Heavy mineral concentrate (HMC) and Rare earth mineral concentrate (REMC)
 - Phase 2 upgrades REMC to produce mixed rare earth oxide (MREO)



Contributing consultants

Testwork / Process &
Infrastructure Engineering



Environmental



Mining



Geology & Resource



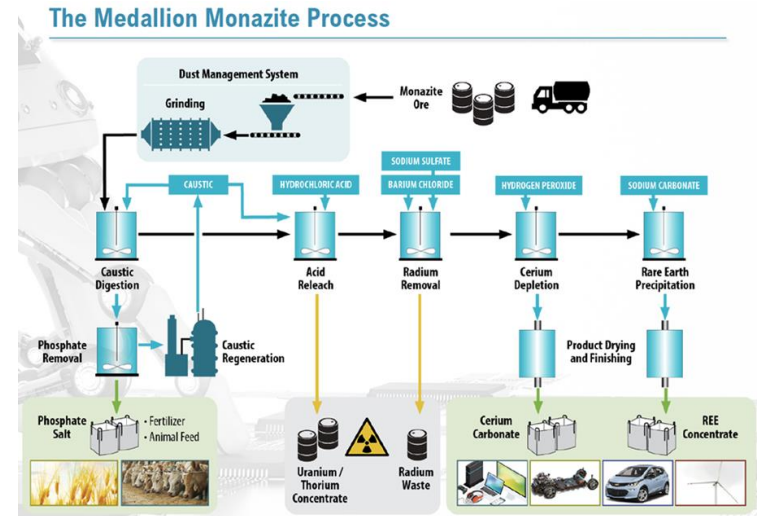
Marketing



Rare Earths Processing Plant Project



- Scoping Study nearing completion
- Vertically integrated with Goschen Central project and supplementary supply for 3rd party.
- Rare earth mineral concentrate (REMC) feedstock to producing mixed rare earth oxide (MREO).
- Strong ESG advantages over competing technologies:
 - Waste generation minimised.
 - Ability to separate future products from waste stream.
- Localisation study completed:
 - pathway to permitting identified.
 - availability of supporting infrastructure.



Contributing Consultants

Hydrometallurgical



Environmental

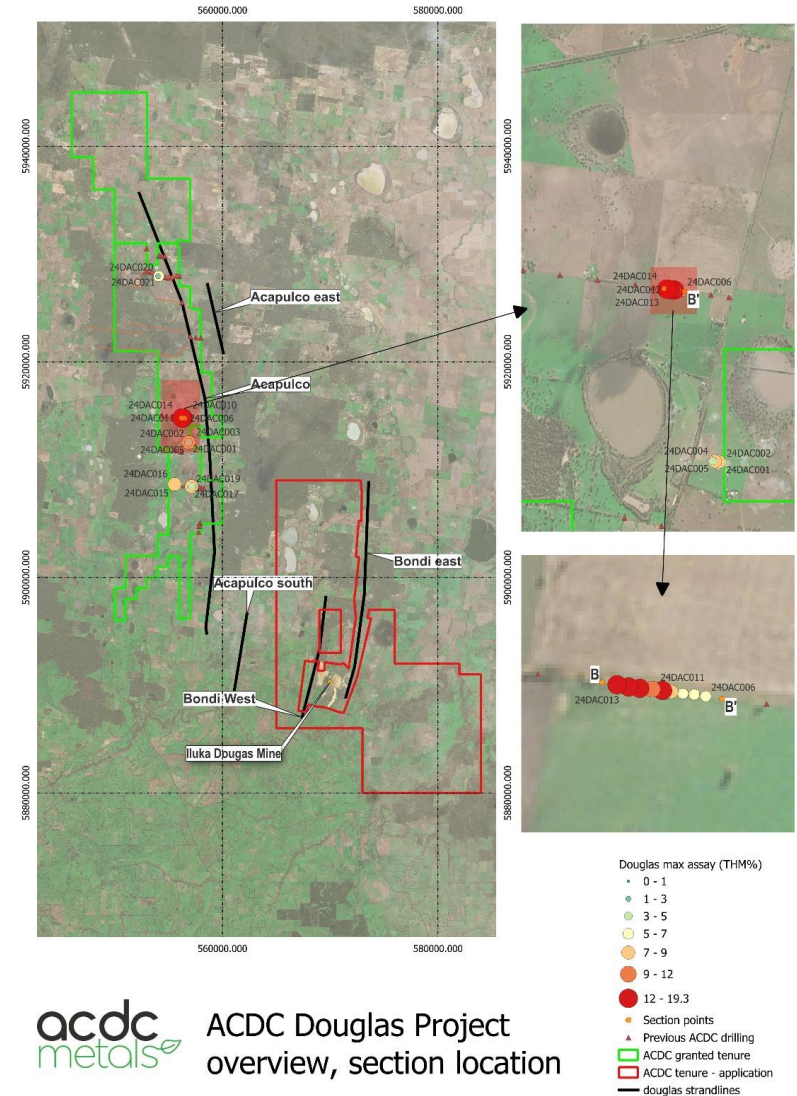


Douglas Project



- High grades up to 18% total heavy minerals (THM) intersected.
- Mineralised thickness of up to 33m from shallow depth.
- Comparable grades and thickness to the nearby Bondi strandline system which was mined by Iluka Resources (approx. 20km)
- Follow up drill campaign will commence in May 2024 to identify extent of mineralisation.
- Highlights from drilling include:
 - **21.0m @ 4.73% THM** from 21.0m, including **4.5m @ 11.34% THM** from 21.0m and **1.5m @ 18.15% THM** from 24m (24DAC012).
 - **33.0m @ 3.19% THM** from 9.0m, including **7.5m @ 7.91% THM** from 19.5m and **1.5m @ 15.28% THM** from 24m (24DAC013).

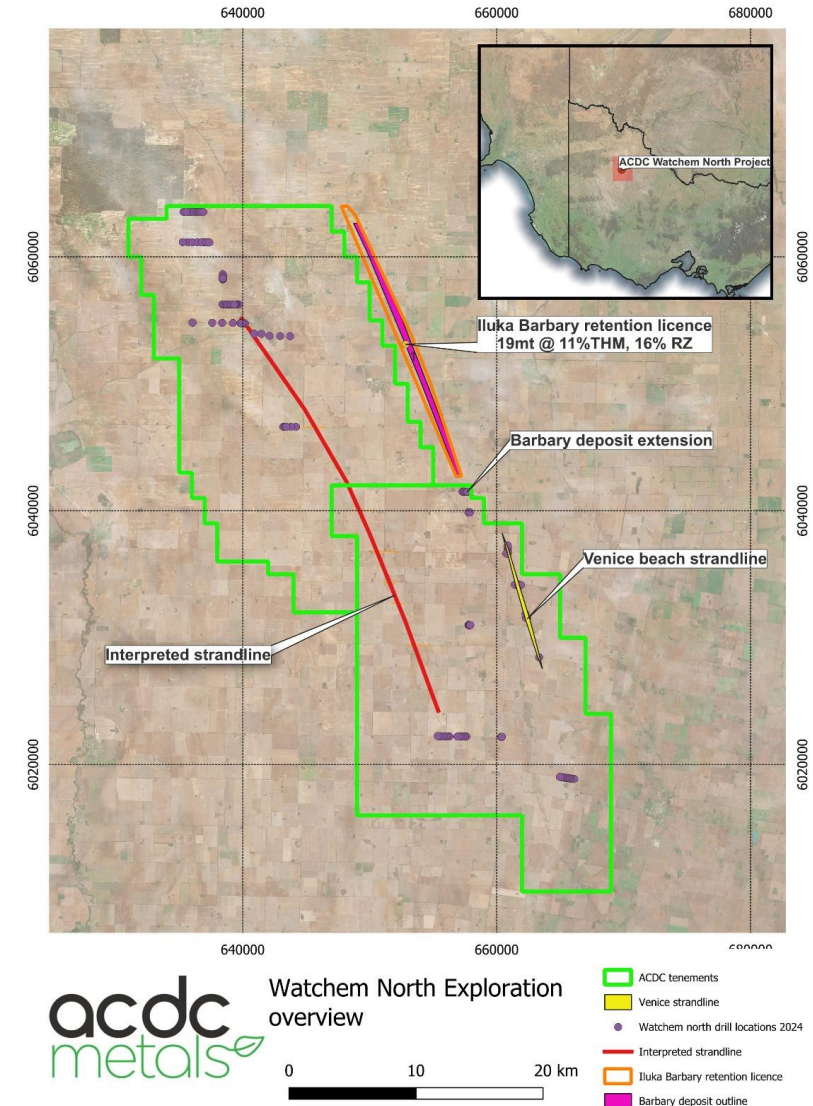
2024 drilling results refer to ASX announcement 7 May 2024.



Watchem North Project



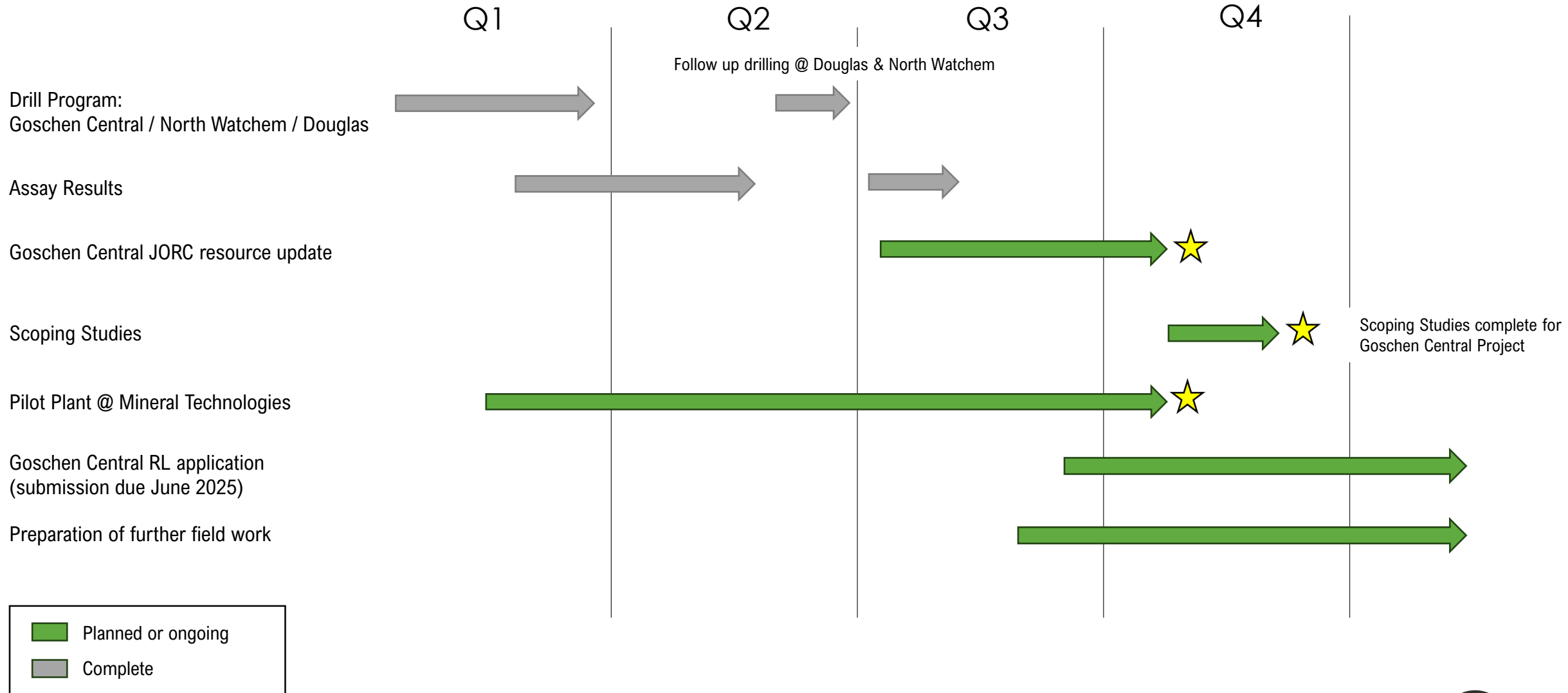
- Venice Beach Strandline discovered at Watchem North. Shallow, high-grade, heavy mineral sand strandline with a 9km strike length, including 6m at 37.9% Total Heavy Mineral (THM).
- A second potential strandline interpreted over a 35km strike length.
- Drilling suggests a third strandline, interpreted to be an extension of Iluka's Barbary heavy mineral sand resource.
- Drilling highlights from the Venice Beach strandline include:
 - **6.00m @ 37.9% THM** from 6.00m (24WN046).
 - **4.50m @ 29.2% THM** from 6.00m (24WN026).
 - **3.00m @ 20.3% THM** from 4.50m (24WN047).
 - **4.50m @ 19.3% THM** from 4.50m (24WN035).



2024 drilling results refer to ASX announcement 4 June 2024.
2024 drilling results refer to ASX announcement 26 August 2024.



Work Plan for CY2024



Investment Summary



Corporate

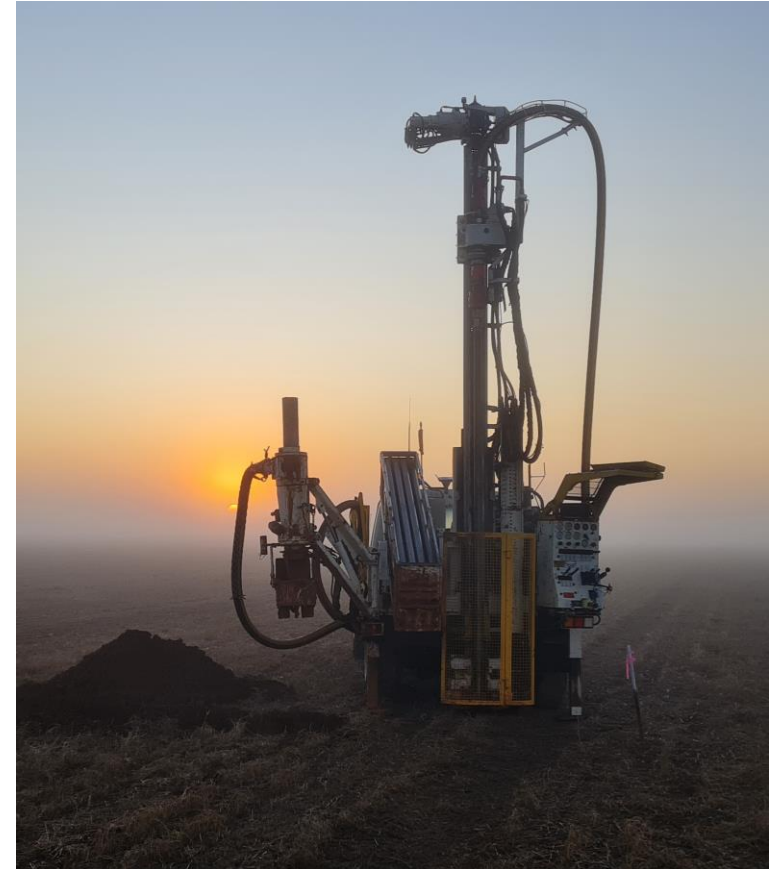
- ✓ **Strong team** with history of project development
- ✓ **Cash balance of \$3.06m** to execute plan

Execution

- ✓ **Over 23,500 metres** of Air core drilling complete
- ✓ **Second JORC resource** in progress at Goschen central
- ✓ **Concept studies** nearing completion

Business Model

- ✓ Exposure to **Energy transition** and the demand for **critical minerals**
- ✓ **Mine to Magnet Strategy** enhances value capture
- ✓ **Proven** exploration and project development strategy





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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	-	NA
Indicated	4.5	8	18	31	17	2.0	-	
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

1. Astron Ltd – ASX announcement <https://www.astronlimited.com.au/wp-content/uploads/2023/05/230516-ATR-Investment-Presentation.pdf>
2. 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

Classification	Tonnes (Mt)	Total HM %	Slimes %	Oversize %	% of total HM Mineral Assemblage					
					Rutile	Leucoxene	Ilmenite	Zircon	Monazite	Xenotime
					Indicated	130	2.0	19	4.1	9.2
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

Classification	% of total HM Rare Earth Oxides																
	Y2O3	La2O3	CeO2	Pr2O3	Nd2O3	Sm2O3	Eu2O3	Gd2O3	Tb2O3	Dy2O3	Ho2O3	Er2O3	Tm2O3	Yb2O3	Lu2O3	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