



ASX: ADC

Powering the Future with Innovative Mine-to-Market Solutions

Resource Connect Asia Presentation | October 2023



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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.

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

- ✓ **13,000 metres** of Air core drilling complete and assays received
- ✓ **Exceptional Mineralogy and Grades** at Goschen Central
- ✓ **Maiden JORC resource** targeted for October 2023

Well Financed

- ✓ **Completed \$8M IPO** December 2022
- ✓ **Listed on ASX** January 2023

Our differentiator, Rare Earth Element Extraction

- ✓ **Rare Earth Processing plant (REPP) project**
- ✓ Producing – **Rare Earth Element** carbonate & Phosphate
- ✓ Providing essential materials for magnet production



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



Tamara Barr
Corporate Secretary
Governance

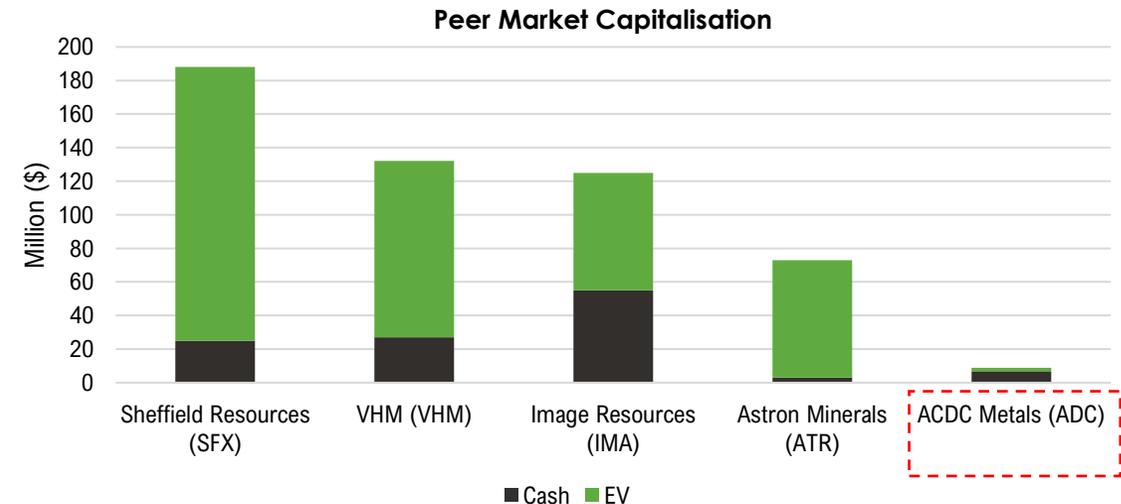
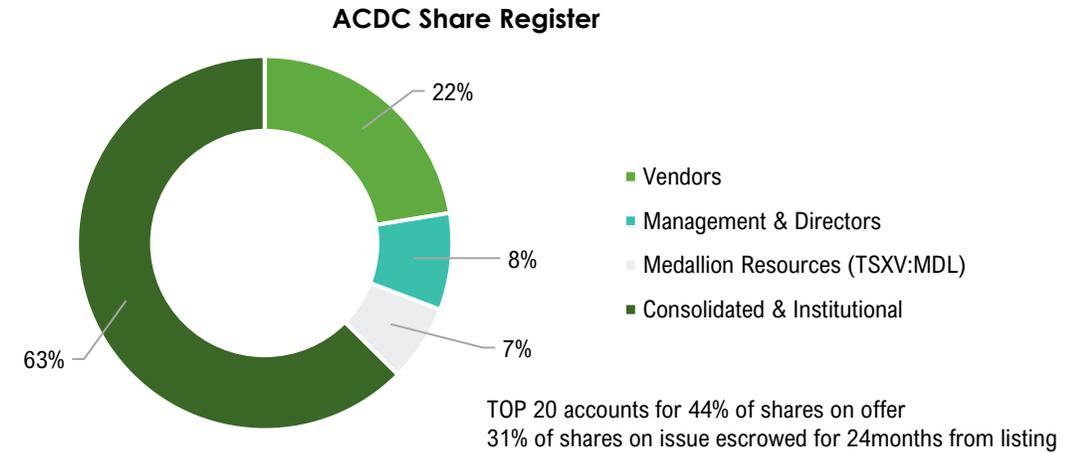


Kent Balas
Exploration Manager
Geologist

Corporate Structure



Capital Structure	
Shares on issue	72,305,130
Share price (27 Sept 2023)	\$0.074
Market Capitalisation	\$5.35 M
Cash (27 Sept 2023)	\$5.6 M
Debt	Zero
EV	\$-0.25 M
Options	
Listed ADCO, \$0.30 expiring April 25	38,152,565
Other, \$0.30 expiring Jan 26	9,550,000



1. Data taken from last reported quarterly updates, 30th April 2023





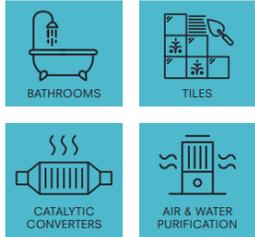
Mineral Sands are naturally formed deposits, that are rich in heavy minerals and rare earth metals

What are Mineral Sands



Zircon (ZrSiO₄)

Zircon



Rutile (TiO₂)



Ilmenite (FeTiO₃)

Titanium Minerals



Monazite
(Ce, La)PO₄

Monazite



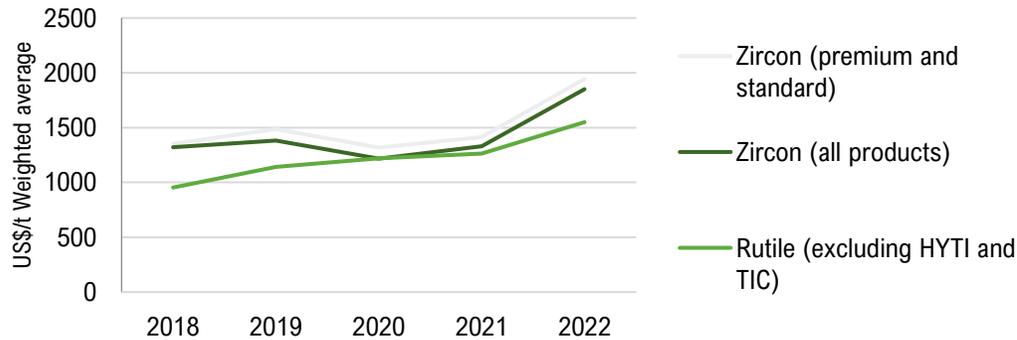
Xenotime
(Y)PO₄

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



Source: Iluka Resources FY22 Annual Report



Monazite typically contains 50-60% REE by weight and is consistently enriched in the most critical REEs that are essential for high strength permanent magnets

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



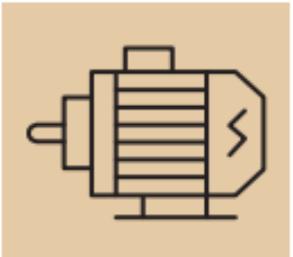
Key Rare Earths

60	65	66	59
Nd	Tb	Dy	Pr
Neodymium	Terbium	Dysprosium	Praseodymium

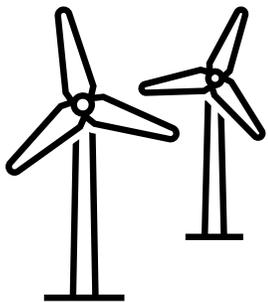
magnetic rare earth elements



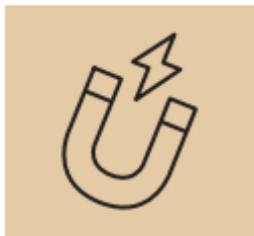
Hybrid and electric cars... will increasingly drive demand for rare earths metals. Bloomberg New Energy Finance estimates EVs will account for 2 per cent of the market by 2020, 8 per cent by 2025 and 20 per cent by 2030.



EV MOTOR
Neodymium
Praseodymium
Dysprosium



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

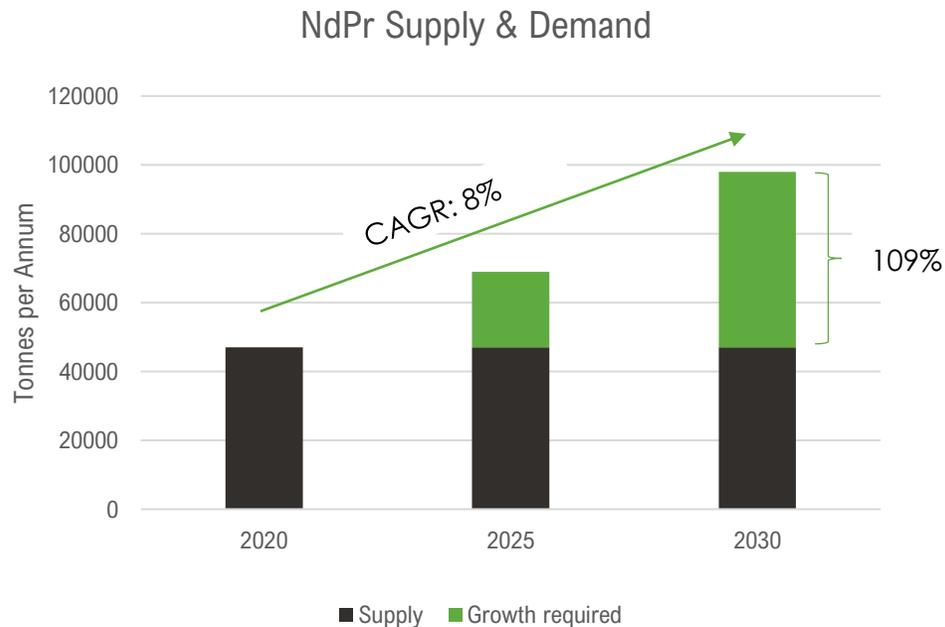


WIND TURBINE GENERATOR
Neodymium
Dysprosium
Praseodymium

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/>

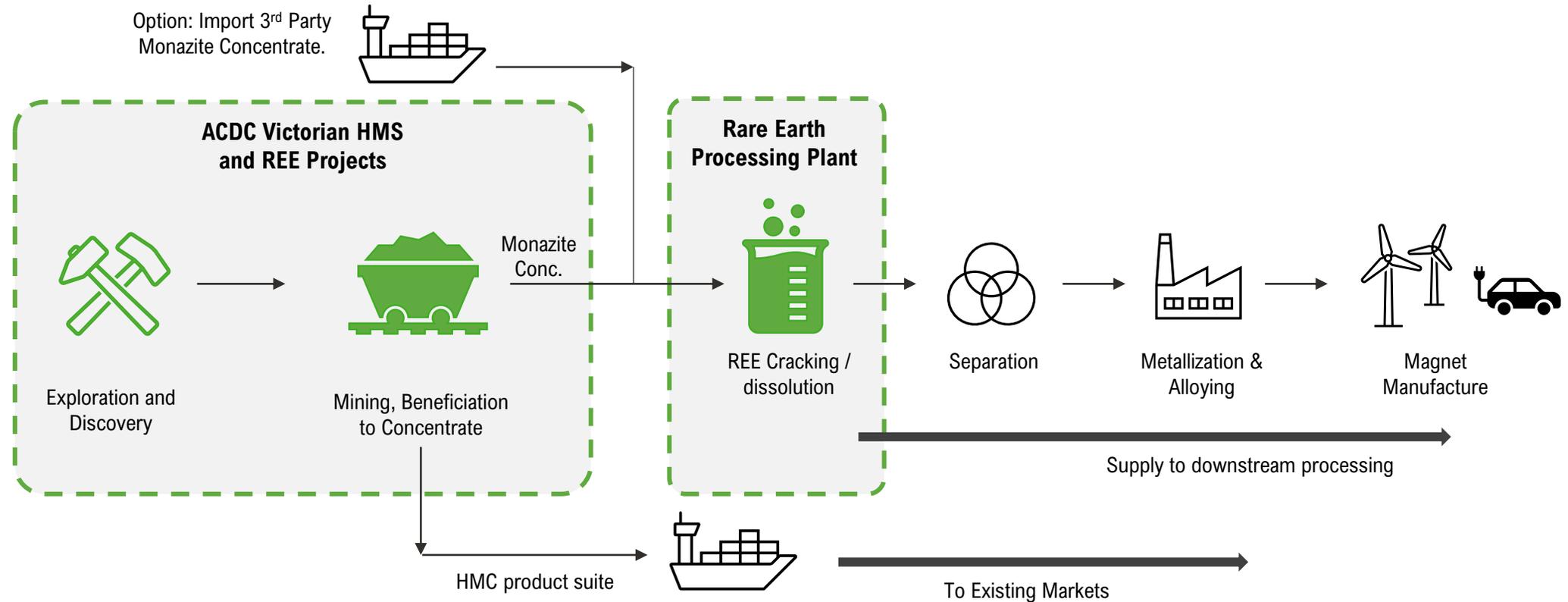
- China dominates the REE sector, over 80% of downstream processing¹
- Desire by government & public to reduce the reliance on Chinese supply chain
 - Australia
 - \$1.25B loan to Iluka Resources (ASX:ILU)³
 - \$50M Critical minerals grant 2023
 - USA
 - Infrastructure and Jobs act: \$407M USD, Oct 2022
 - 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/>

ACDC Metals Strategy: Mine to Magnet



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

Murray Basin



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

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 12,500 metres drilled since ACDC inception**

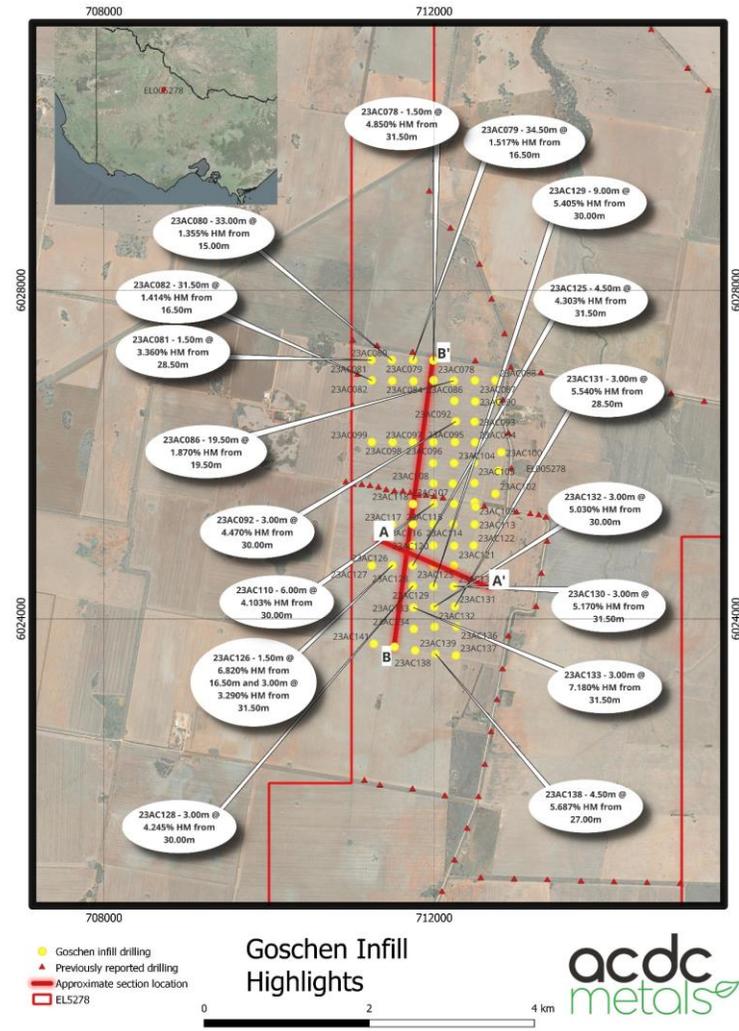
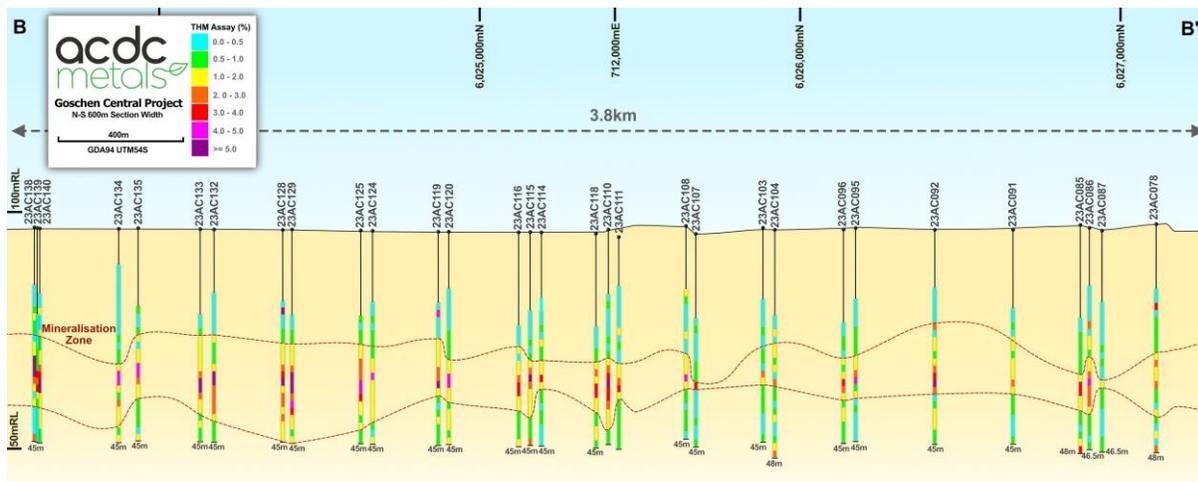
Project	Tenement Number	Holes completed	Metres completed
Goschen Central	EL5278	141	6,965
Watchem	EL7642	78	3,530
Douglas	EL7544	43	2,116
TOTAL		262	12,611



Goschen Central Project – Maiden Drilling Highlights



- Multiple high grade intersections 5-10% THM
- Over 7.5 km² of infill drilling
- Assays show a high portion of key magnetic rare earth oxide (MREO)
- Magnet REOs average ~26% of the sample material but ~90% of REE value.
- Initial mineralogy reports exceptional grades:
 - >93% HMS assemblage considered 'valuable'
 - High value Zircon and Monazite grades well above average for Murray Basin



For full drill details refer announcement 3 October, 2023
 Mineralogy, refer announcement 13 June, 2023



Goschen Central Project

ACDC Metals' most advanced project

Extensive historical drilling by CRAE in 1980's & 1990's

7,000 metres drilled by ACDC Metals since acquisition

- ✓ Over 140 holes covering project area
- ✓ All Assays & mineralogy received
- ✓ Maiden resource expected October 2023

✓ Scoping Study underway – targeting 2023

- ✓ Ore supplied from Goschen Central Project
- ✓ Target high grade ore in early years of operation to maximise project economics.
- ✓ Include all infrastructure needed to build and operate the project.
- ✓ Producing heavy mineral, monazite and xenotime concentrates.



Contributing Consultants

Testwork / Process &
Infrastructure Engineering



Environmental



Mining



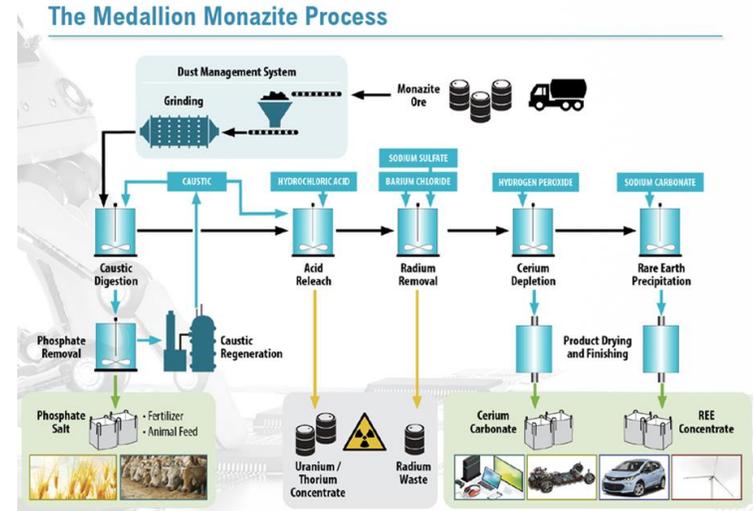
Geology & Resource



Rare Earths Processing Plant Project



- ✓ ACDC is developing the Rare Earth Processing Plant (REPP) Project, that utilises the ‘Medallion Monazite Process (MMP)’.
- ✓ The MMP Process is based on the caustic crack process, with key updates to target energy and waste efficiency.
- ✓ Strong ESG advantages over competing technologies
- ✓ Scoping Study has commenced, targeting Q4 2023 completion



Contributing Consultants

Hydrometallurgical



Environmental



2021



MDL complete scoping study for USA located plant

H1 2023

Drill Program at Goschen Central, collects Met. sample

H2 2023

Update Scoping study Permitting roadmap



Project tech-eco. evaluation

H1 2024

Testwork preparation & execution of program at ANSTO

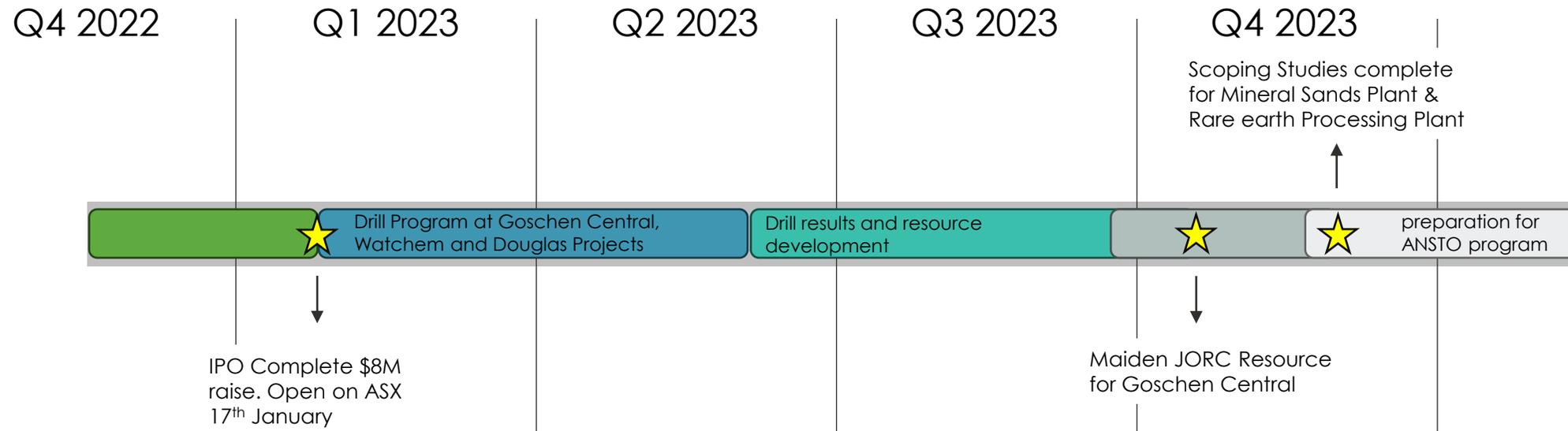
H2 2024



Commence pre-feasibility study



Work Plan for 2023



Upcoming news

- Maiden JORC Resource – October 2023
- Assays from Douglas drilling – October 2023
- Scoping studies progress Q4 2023

Investment Summary



Corporate

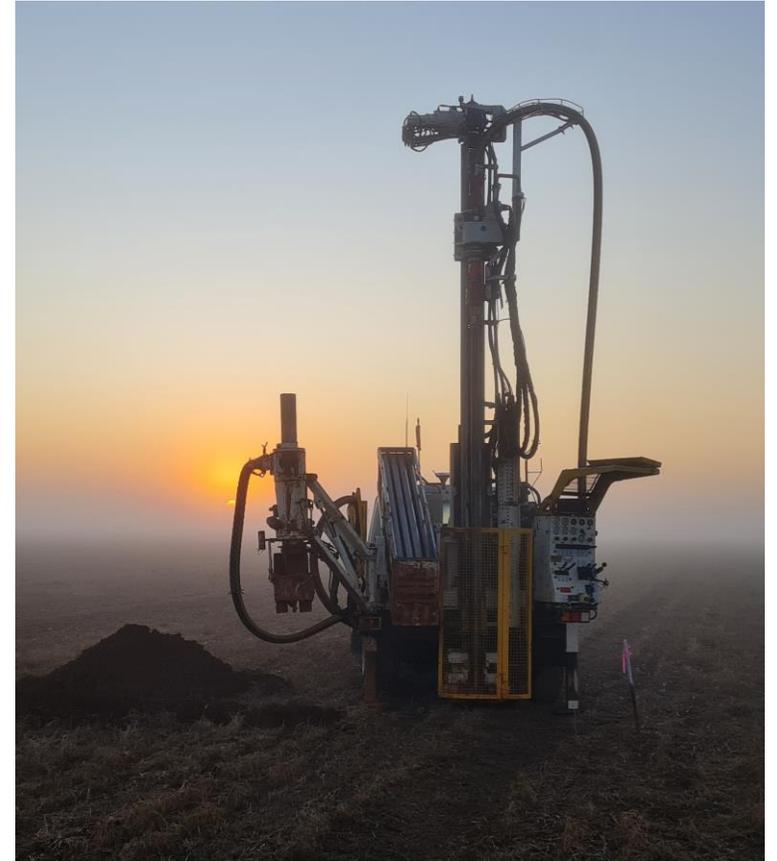
- ✓ **Strong team** and history of project development
- ✓ Strong **cash balance** to execute plan

Execution

- ✓ **13,000 metres** of Air core drilling complete
- ✓ **Exceptional Mineralogy and Grades** at Goschen Central
- ✓ **Maiden JORC resource** targeted for October 2023
- ✓ **Concept studies** commenced and scheduled 2023

Business Model

- ✓ Exposure to **Energy transition** and the demand for **critical minerals**
- ✓ **Mine to Magnet Strategy**
- ✓ **Downstream value add** opportunity for Australia





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