



Powering the Future with Innovative Mine-to-Market Solutions

Investor Presentation | May 2023

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ACDC Strategic Statement



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.



Rare Earth Element Extraction



- Feedstock from ACDC HMS assets
- Or Feedstock sourced globally
- **ACDC Exclusive licence** for Medallion Monazite Process (MMP) eastern Australia
- Producing – **Rare Earth Element** carbonate & Phosphate
- Providing downstream processing for magnet production

Heavy Mineral Sands



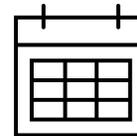
- Exploration and Development
- Tenements held in Western Victoria, long established area for mineral sand development and mining
- Product - Heavy mineral concentrate into an established market
- Product - Monazite concentrate rich in rare earth elements supply to either **ACDC Metals MMP or established markets**

Rare Earth Market



- China accounts for 60% of REE mining and 87% of processing
- Markets are demanding, and governments are supporting, rare earth supply chain development outside of China
- Rare earth market forecast for continual growth to 2030

Work Program



- ✓ **13,000 metres** of Air core drilling near complete
- ✓ **In-fill drilling** at Goschen Central complete
- **Maiden JORC resource** targeted for H2 2023
- **Concept studies** for both the mineral sand plant and MMP scheduled for H2 2023

Board & Management Team



Tom Davidson
Chief Executive Officer
Engineer & Development



Andrew Shearer
Non-Executive Director and Chairman
Geologist & Corporate



Mark Saxon
Executive Director
Geologist & Corporate



Ivan Fairhall
Non-Executive Director
Engineer & Corporate

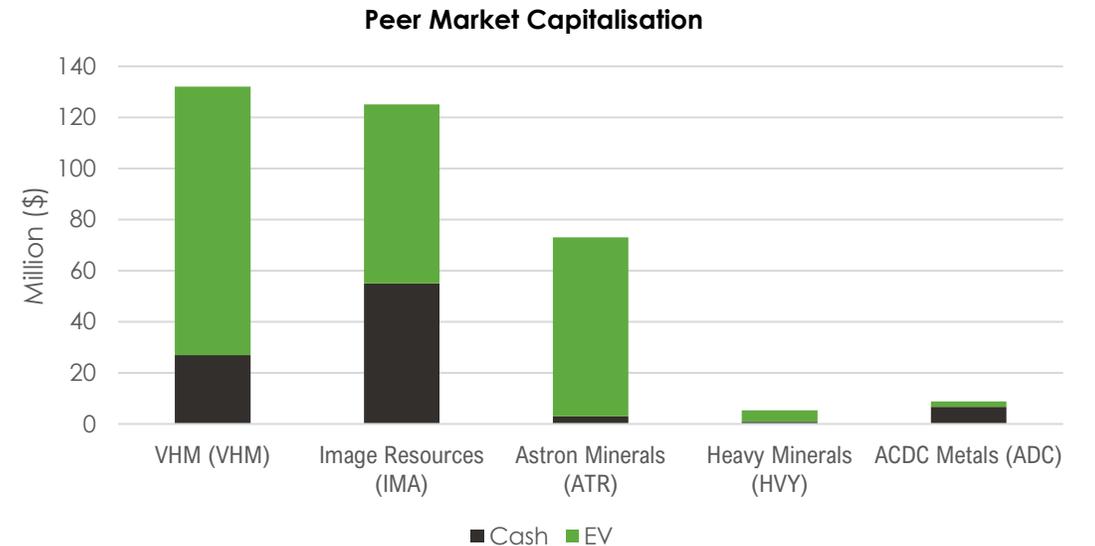
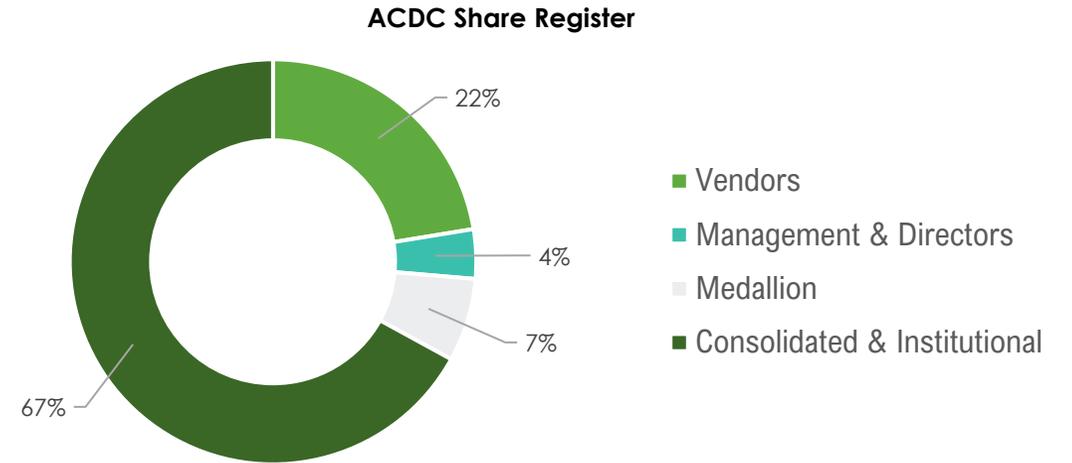


Richard Boyce
Non-Executive Director
Finance & Governance

Corporate Structure



Capital Structure	
Shares on issue	72,305,130
Share price (26 Apr 2023)	\$0.12
Market Capitalisation	\$8.7 M
Cash	\$6.6 M
Debt	Zero
EV	\$2.1 M
Options	
Loyalty, \$0.30 expiring Mar 25	36,152,565
Other, \$0.30 expiring Jan 26	9,550,000

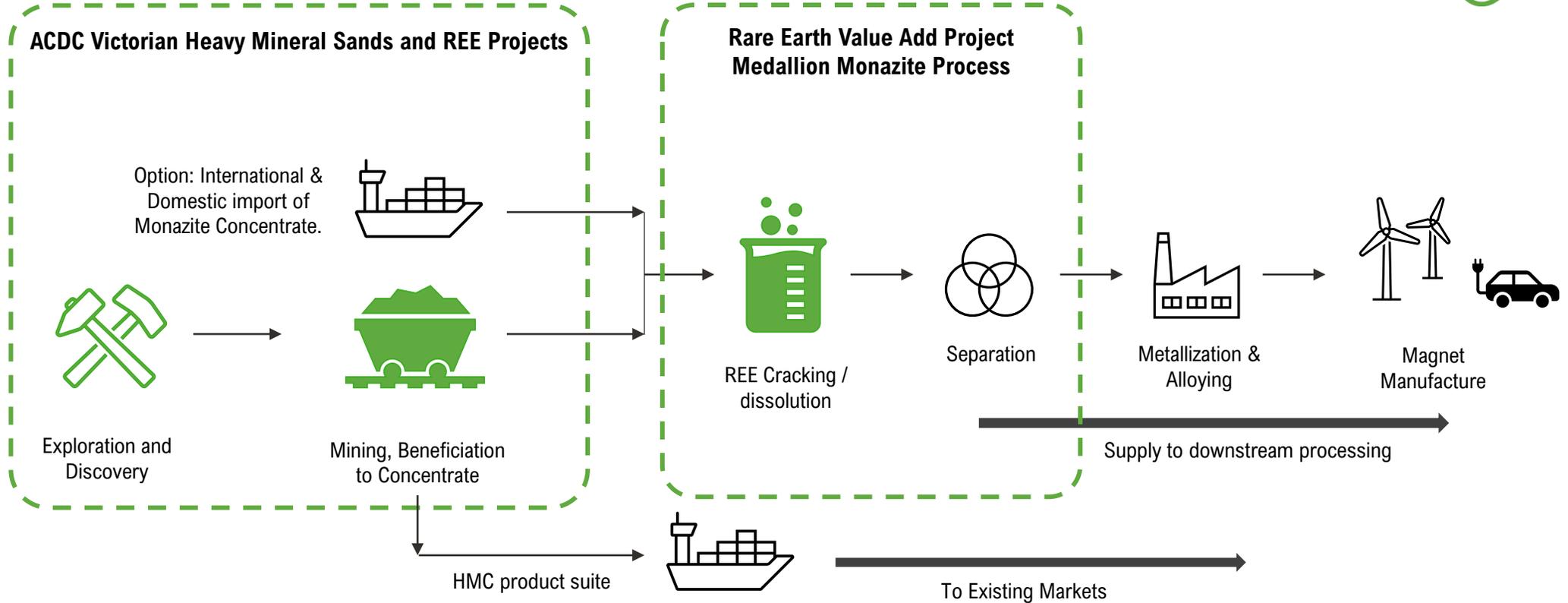


1. Data taken from last reported quarterly updates, 30th April 2023



ACDC Metals Strategy: Mine to Magnet

ACDC Metals business strategy



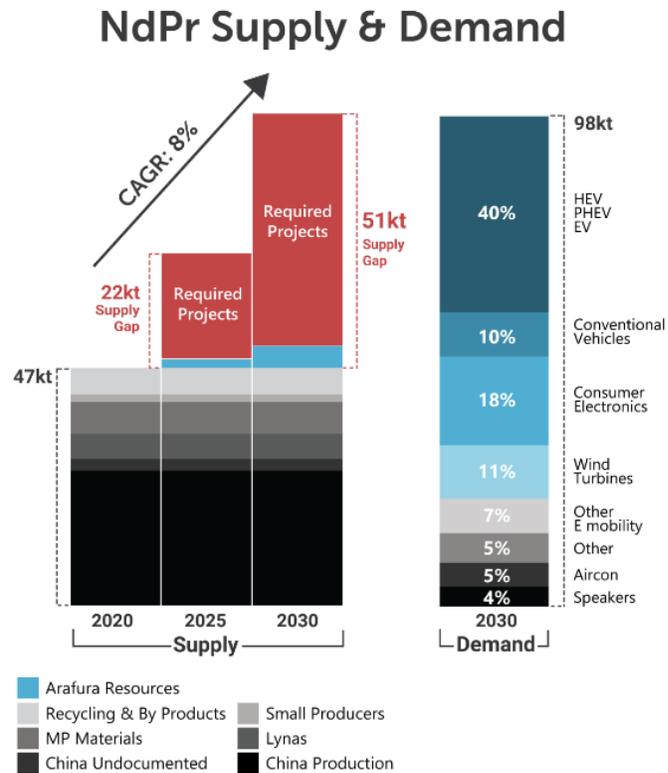
- ACDC controls 3 prospective HMS and REE projects with extensive historic drilling in an established district
- Traditionally monazite concentrates are exported from the mining operation to Asia for extraction of rare earths.
- The MMP process enables this value-add to happen in Australia.
- The ACDC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

The REE Opportunity



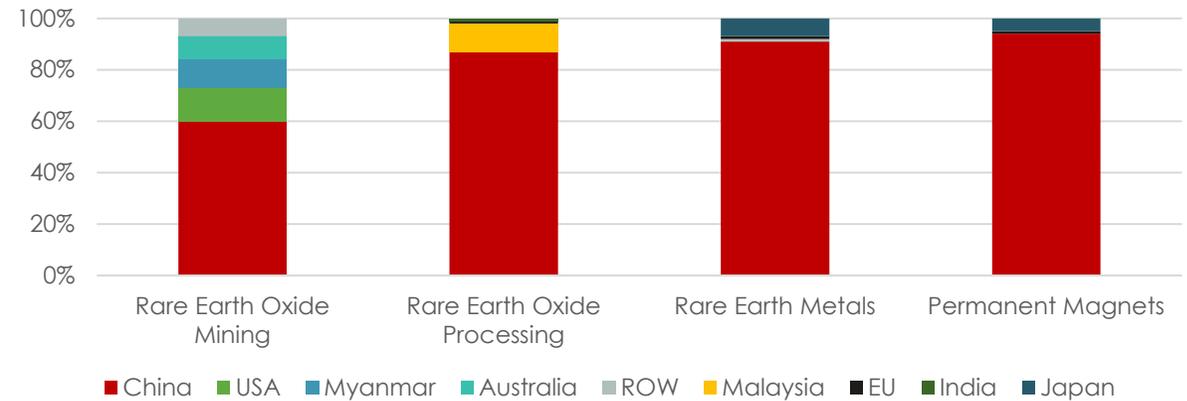
Supply and Demand forecasts indicate that further projects are required to support the energy transition

Desire by government, public to reduce the reliance on Chinese supply



Source: Arafura internal Supply Demand forecast referencing against data from CRU, Rare Earth Market Study 2020; Roskill, Rare Earth Market Analysis 2018, Adamas Intelligence, Rare Earth Market Outlook to 2030.

China dominates the REE sector, both mining and downstream processing



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

Downstream processing represents large value capture opportunities
Over 85% of rare earth magnet value is post mining activities

Source Medallion Resources (TSXV:MDL) research



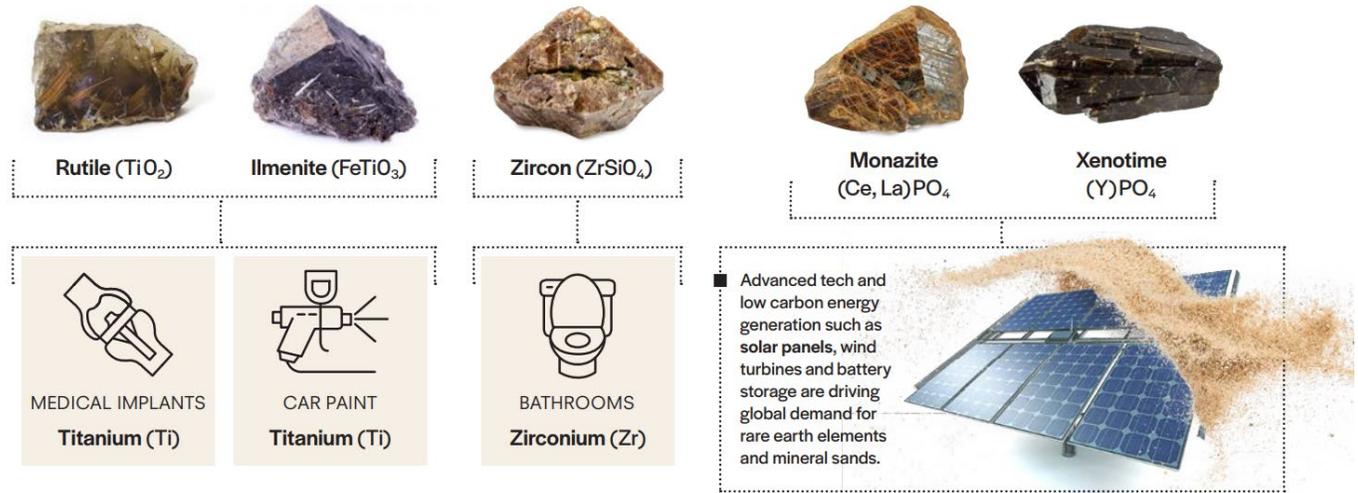
The ACDC Opportunity - value



- To maximise both value to shareholder and resource efficiency, ACDC has partnered exclusively with Medallion Resources Ltd (Canada) to extract and separate REE from monazite mineral sand.
- The Medallion Monazite Process potentially produces separated and directly marketable magnet metal products from monazite sand feedstock.
- 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
- The opportunity is for ACDC to separate REE from the monazite mined in domestic HMS deposits.

Product suite from Heavy mineral sand assets

Mineral sands Rutile, ilmenite, zircon and monazite are the building blocks of objects we use everyday.



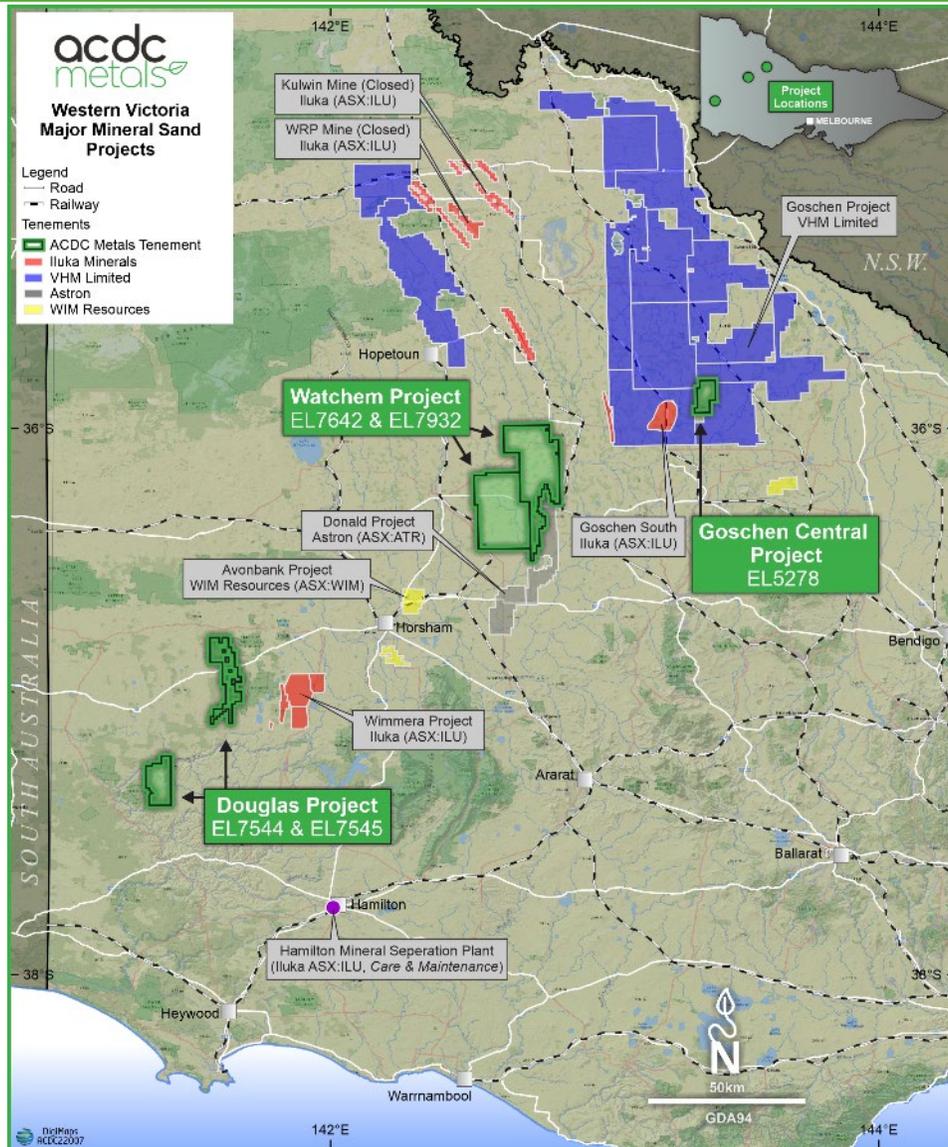
One mine. Thousands of products
Source: Minerals Council of Australia



*CSIRO allocation



Mineral Sands Projects



- Mineral sands assets all located in western Victoria on the edge of the Murray Basin
- Projects all close to current or historic mineral sands operations
- Clear access and wide roadside verges for low impact exploration

Goschen Central Project



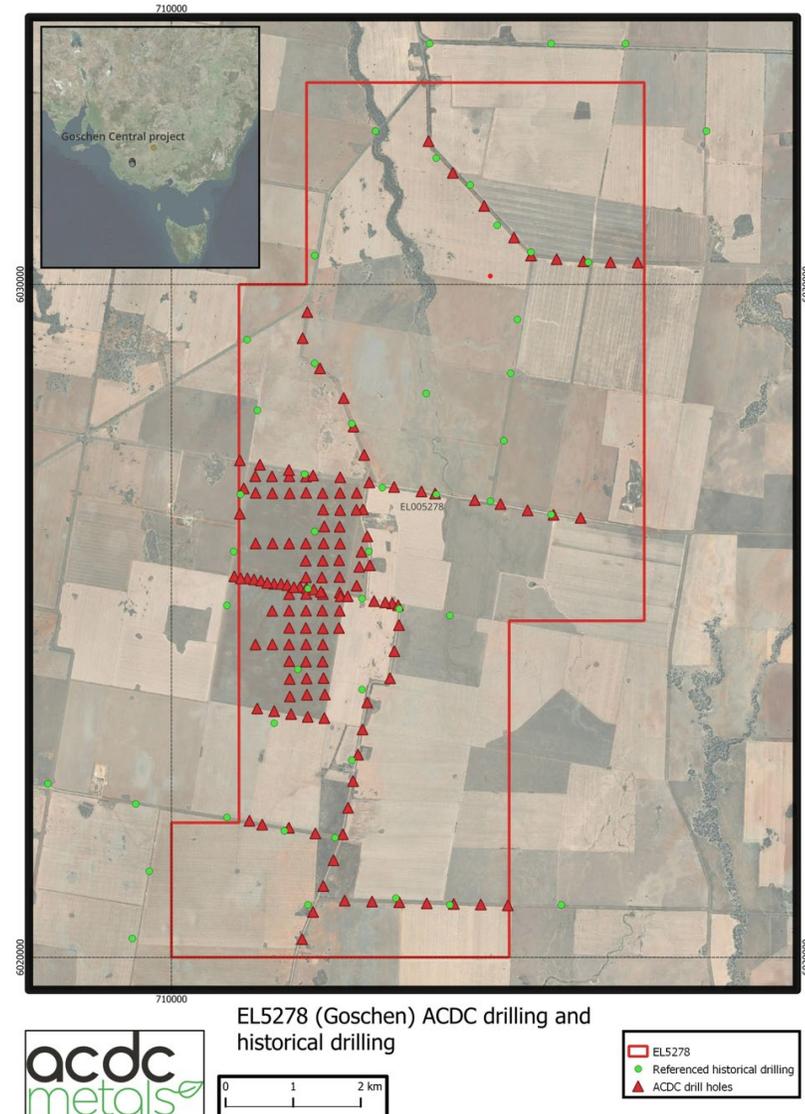
ACDC Metals' most advanced project

Extensive historical drilling by CRAE

WIMS Style Mineralisation

7,000 metres drilled since acquisition

- ✓ Over 140 holes covering project area
- ✓ Assays expected in Q2 2023
- ✓ Maiden resource expected H2 2023
- ✓ Metallurgical characterisation under way.
- ✓ PFS level testwork in H2 2023



Watchem & Douglas Projects

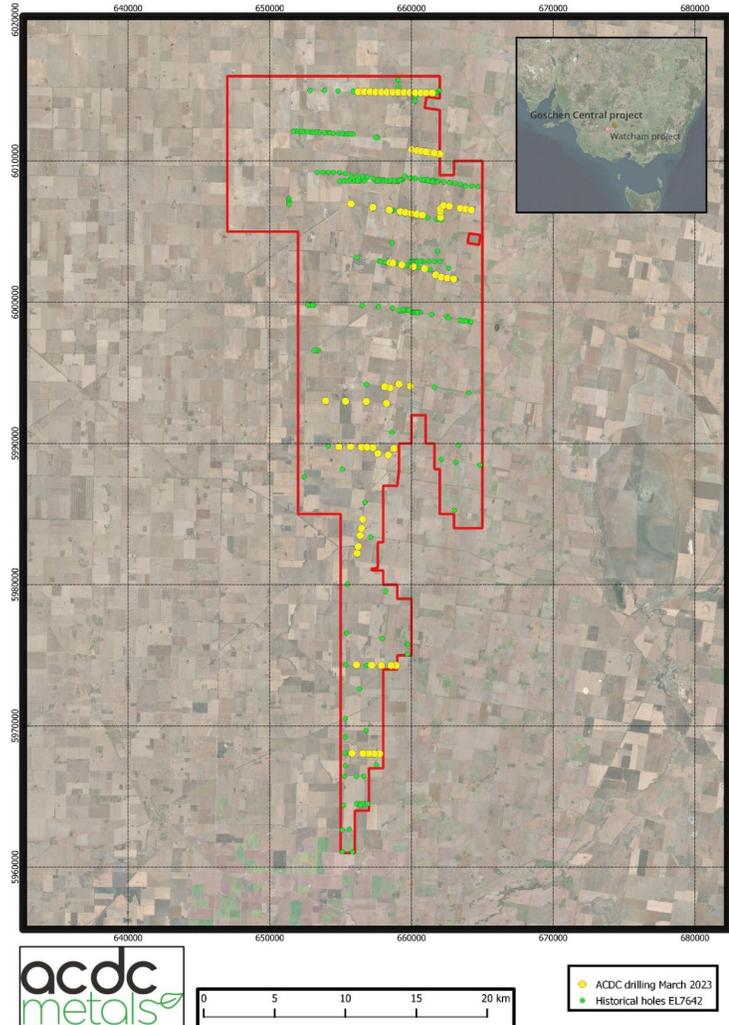


Extensive historical drilling by CRAE

Strandline Style Mineralisation

3,500 metres drilled since acquisition

- ✓ Over 75 holes covering project area
- ✓ Assays expected in Q2 2023

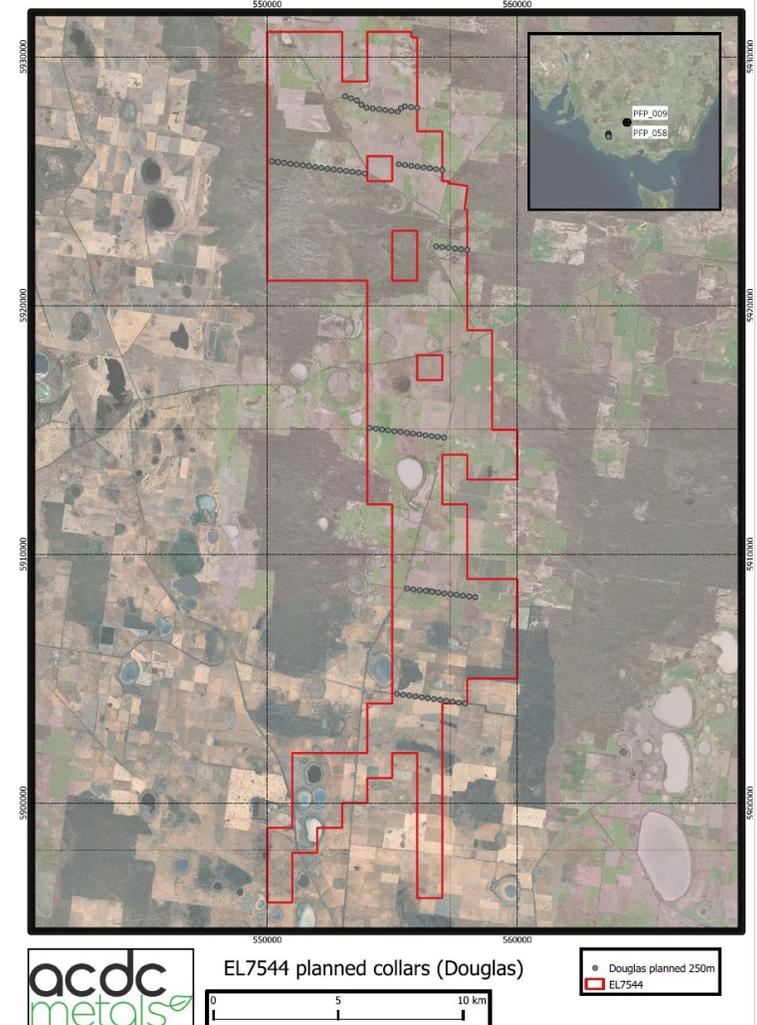


Extensive historical drilling by CRAE

Strandline Style Mineralisation

4,000 metres planned

- ✓ Over 80 holes covering project area
- ✓ Assays expected in Q3 2023



Work Plan for 2023



		CY23			
		Q1	Q2	Q3	Q4
Goschen Central Project Discovery drilling program In paddock drilling Assaying and Mineralogy Maiden JORC resource Conceptual Metallurgical testwork Concept Study		█	█		
			█		
			█	█	
				█	█
				█	
					█
Rare Earth Value Add Concept study Localisation studies Testwork program				█	
				█	
					█
Watchem Project Discovery drilling program Assaying and mineralogy		█			█
			█		
Douglas Project Discovery drilling program Assaying and mineralogy			█		
				█	



Investment Summary



Corporate

- ✓ **Strong team** and history of project development
- ✓ Listed January 2023
- ✓ Strong **cash balance** to execute plan

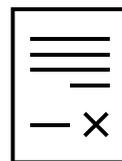


Execution

- ✓ **13,000 metre** aircore program near completion
- ✓ **Strategically aligned** to Australian Federal critical minerals program

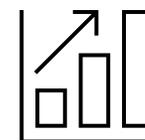
Maiden JORC resource targeted H2 2023

Concept studies scheduled 2023



Business Model

- ✓ Tenements in **well established** mining and development area
- ✓ MMP development external to Mineral sands mine
- ✓ **Downstream value add** opportunity for Australia
- ✓ **Favourable Infrastructure** in both Victoria and South Australia





Contact

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Share Registry*

Automic Pty Ltd

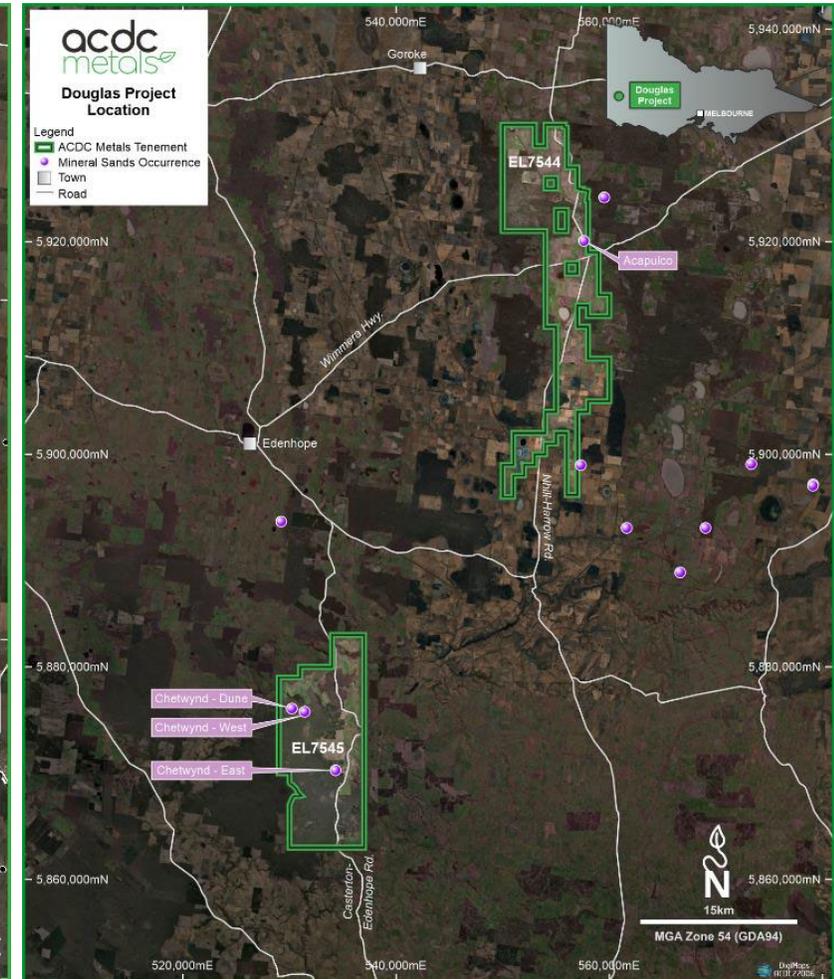
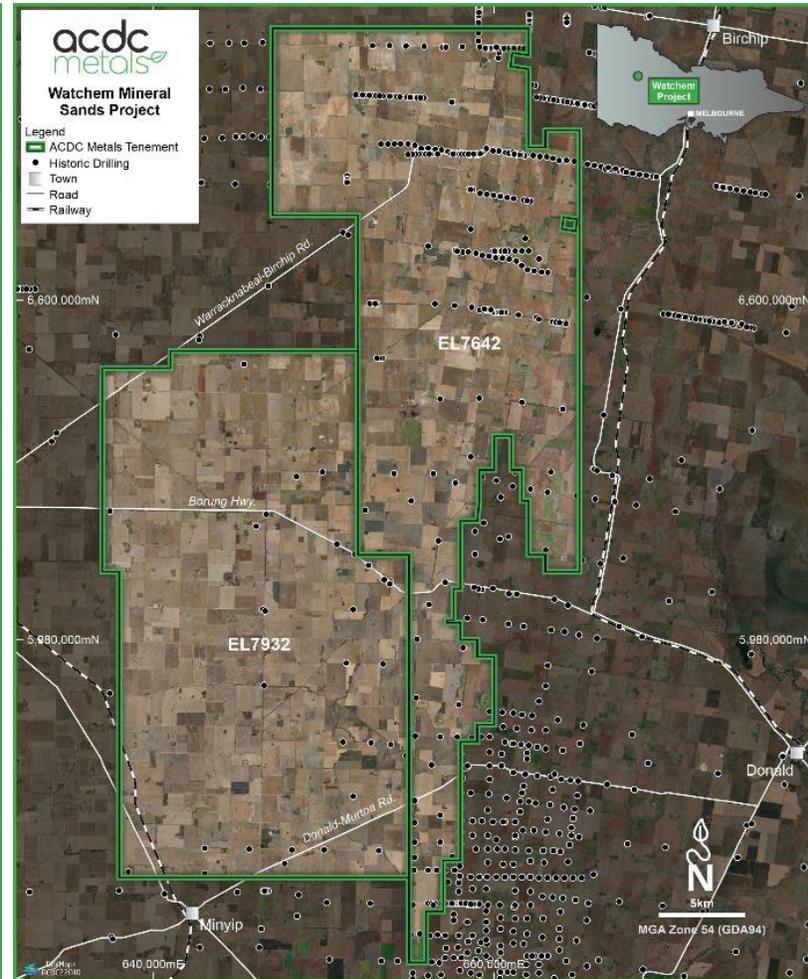
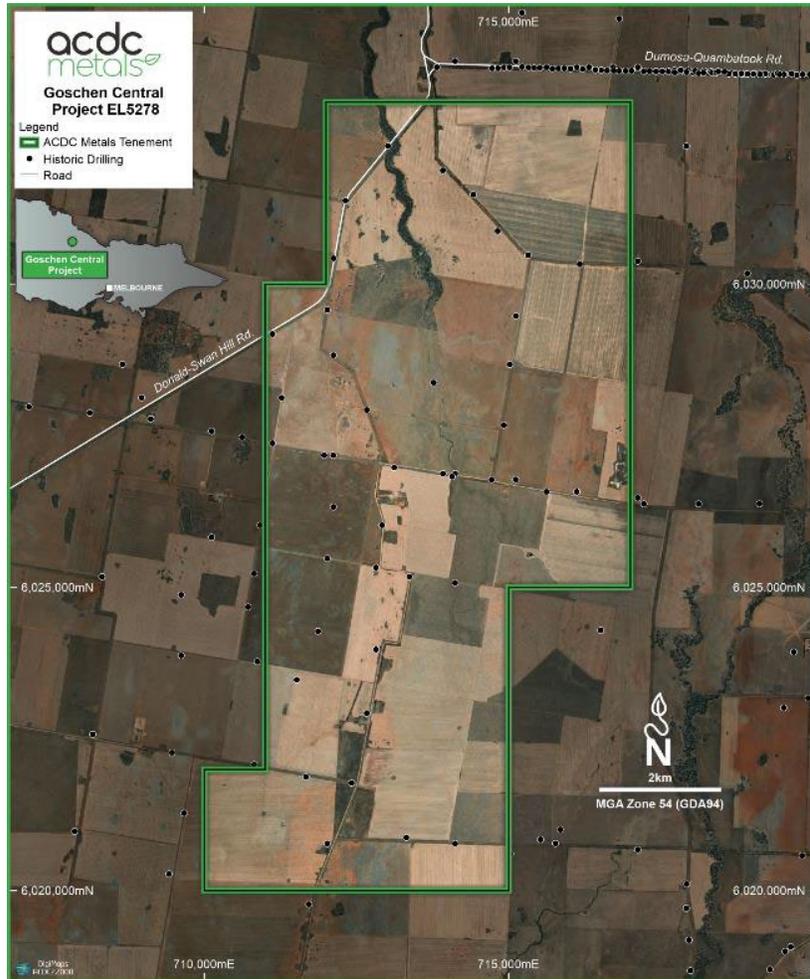
Suite 501, 477 Collins Street
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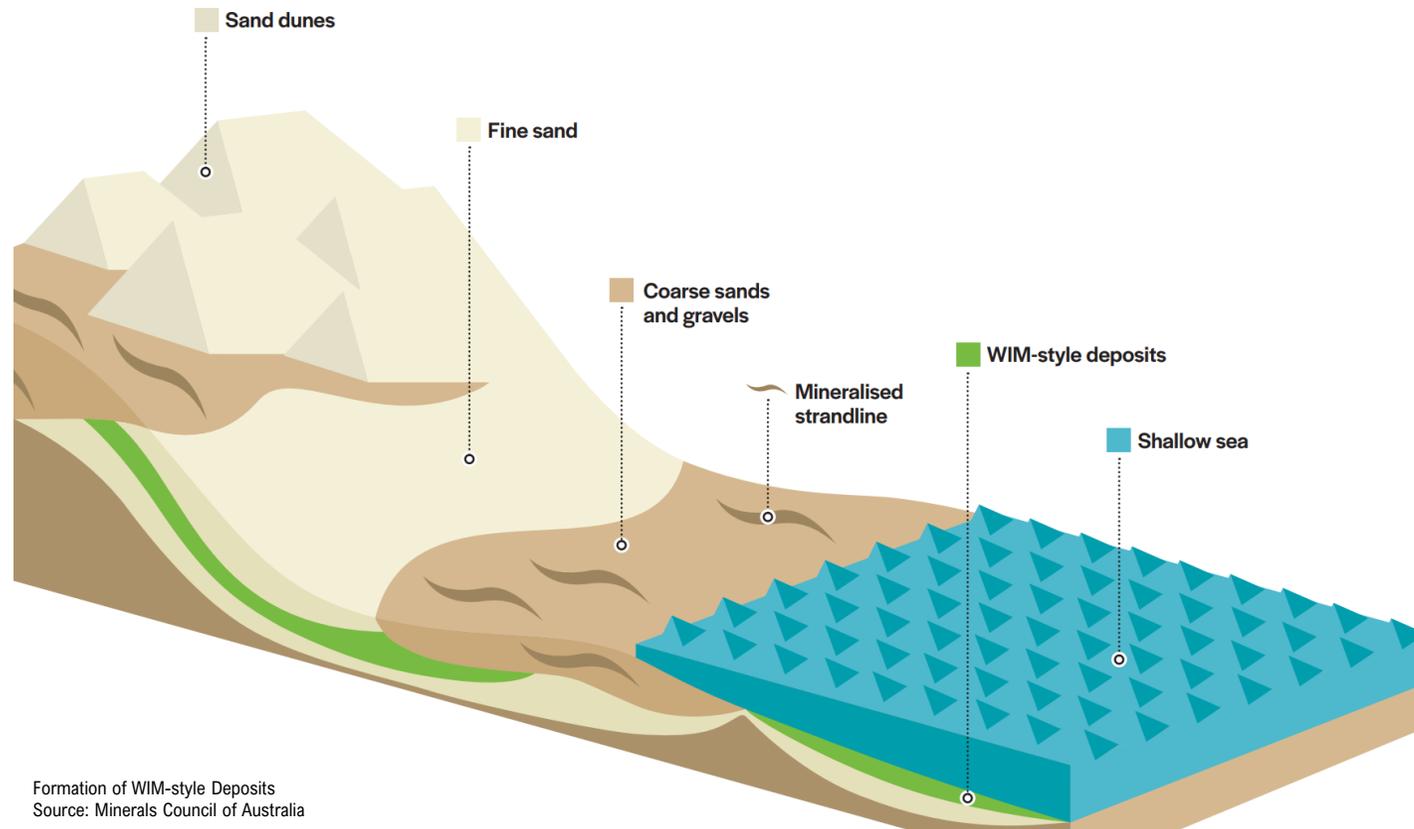
Email: hello@automic.com.au



Appendices - Tenements



Appendices – Mineral Sands



Formation of WIM-style Deposits
Source: Minerals Council of Australia

- Heavy Mineral Sands (HMS) in the Murray Basin have been discovered across two styles:
 - **Strandline or “Strand-style”**: these are narrow, long and high grade deposits containing zircon and titanium. Prior and currently mined in Victoria, NSW and South Australia
 - **WIM style**: sitting as planar and extensive, with significant monazite (REE) content.
- ACDC holds both styles of mineralisation models that have been historically drilled, potentially providing reduced project risk and accelerated timeline

Medallion Monazite Process (MMP)



The Right Technology at the Right Time

- The MMP enables ACDC to gain down stream value, rather than exporting overseas.
- It will enable further opportunity for Australia to
- Medallion spent considerable time and funds to advance the MMP, providing a strategic advantage for ACDC
- ACDC to access technical expertise and experience.
- ACDC has exclusive sublicense in VIC, SA, NT, NSW
- Provides ability to source monazite from other parties

