



**McLAREN**  
MINERALS

## McLaren Minerals (ASX:MML) McLaren Titanium Project

On the Fast Track to Production  
and Unlocking Global Demand

Informa Conference Perth, March 2025





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## COMPETENT PERSON STATEMENT

The information in this Presentation that relates to mineral resources, exploration results and exploration targets for the silica sand Projects is based on and fairly represents information and supporting documentation compiled by Richard Maddocks who is a full-time employee of Auranmore Consulting and is a Fellow of the Australasian Institute of Mining and Metallurgy. Auranmore Consulting has been engaged as an independent consultant to the Company and Richard Maddocks has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves (JORC Code). Auranmore Consulting consents to the inclusion of the information in this Presentation that relates to mineral resources, exploration results and exploration targets for the silica sand Projects in the form and context in which it appears.

The information in this report that relates to Heavy Mineral Resources is based on, and fairly reflects, information compiled by Mr David Williams, a Competent Person, who is an employee of ERM and a Member of the Australian Institute of Geoscientists (RPGEO). Mr Williams has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources, and Ore Reserves (JORC Code). Mr Williams consents to the disclosure of information in this announcement in the form and context in which it appears.

The information in this report that relates to Metallurgical results is based on, and fairly reflects, information compiled by Mr Mitch Ryan, a Competent Person, who is an employee of IHC Mining. Mr Ryan has sufficient experience relevant to the Metallurgical test work that was undertaken to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources, and Ore Reserves (JORC Code). Mr Ryan consents to the disclosure of information in this announcement in the form and context in which it appears.

The Company confirms that there is no new information or data that materially affects the mineral resource estimates announced on 30 June 2022 and 5 August 2024, and that all assumptions underpinning the estimate continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

**This presentation has been approved by the Board of Directors**

# Corporate Snapshot – Board Rejuvenation Underway



## **Campbell Smyth**

### **Non-Executive Chairman**

Campbell's professional career has been in the provision of advice to fund management, capital markets and the corporate finance sector. This experience has been with most major markets, primarily the ASX, and listed and unlisted companies in North America and Europe.



## **Michael Arnett**

### **Non-Executive Chairman Elect**

Mr. Arnett has 20+ years of expertise in the resources industry. He has been Chairperson of NRW Holdings (ASX: NWH), a leading Australian mining and civil contractor with a market capitalisation of ~\$1.6 billion, since 2016. He has previously served as a partner at Norton Rose Fulbright (formerly Deacons), including as a member of its Board of Directors and as National Head of its Natural Resources Business Unit.



## **Simon Finnis**

### **Managing Director**

Simon is a mining professional with 35+ years experience, including ten years operating in the minerals sands industry. He led the Pooncarie Mineral Sands Project from feasibility to production and was CEO of the US\$650m Grand Cote Mineral Sands Project in Senegal. Simon also served as CEO of Metro Mining, overseeing delivery of the Bauxite Hills Project in Queensland.



## **Peter Secker**

### **Non-Executive Director**

Peter is a Mining Engineer with 40+ years experience, overall developing five greenfield projects in Australia and globally, including building, commissioning and operating the TiWest Mineral Sands project at Cooljarloo, WA. Peter has been a CEO of public companies since 1990 and has raised more than \$2Bn of debt and equity.

Capital Structure	
Cash (31 January 2025)	A\$1M
Shares on Issue	141.5M
Options	12M
Performance Rights	16.5M
Share Price (as 26/3/2025)	A\$0.044
Market Capitalisation	A\$6.23M

# Accelerating Growth: Focused on Titanium/Heavy Minerals



## New Core Focus

Transitioning from silica sand to **Heavy Mineral Sands (HMS)**, specifically targeting titanium minerals for key industrial applications.



## McLaren Mineral Sands Project, WA

Flagship project with inferred and indicated resource of 280Mt @ 4.8% Heavy Mineral deposit.

Positioned to meet the growing requirement for Titanium Minerals.

Pre-Feasibility Study (PFS) underway, targeting completion during Q2 2025.



## New Leadership Team

Assembled an experienced team with a proven track record in developing and delivering large-scale mineral sands projects globally.

Board rejuvenation partially complete.

Focused on fast-tracking McLaren into production, leveraging deep expertise in project development and mining operations management.



## Strategic Positioning:

Well-placed to capitalise on the growing global demand for feedstock into the pigment (TiO<sub>2</sub>) market, particularly in Asia.

# Mineral Sands – Project Assessment Criteria

## Jurisdiction

- Mining Friendly ✓
- Approvals processes ✓

## Deposit Characteristics

- Size of Resource ✓
- Overburden (less is more) ✓
- Deposit thickness (more is more) ✓
- Slimes Content (low is best)
- Induration ✓
- Mineral Suite
- Ease of separation - recoveries ✓

## Logistic Solutions

- Road ✓
- Rail
- Shipping ✓

## Final Products

- Specification ✓
- Value
- Saleability ✓
- By products ✓

## Location and Infrastructure

- Roads and access ✓
- Communications ✓
- Landholders ✓
- Remoteness ✓
- Water ✓
- Energy
- Likely objectors ✓

## Costs

- Capex ✓
- Opex ✓
- Gotta make a quid



# McLaren Mineral Sands Project, WA - Highlights

## Large Heavy Mineral Sands Deposit:

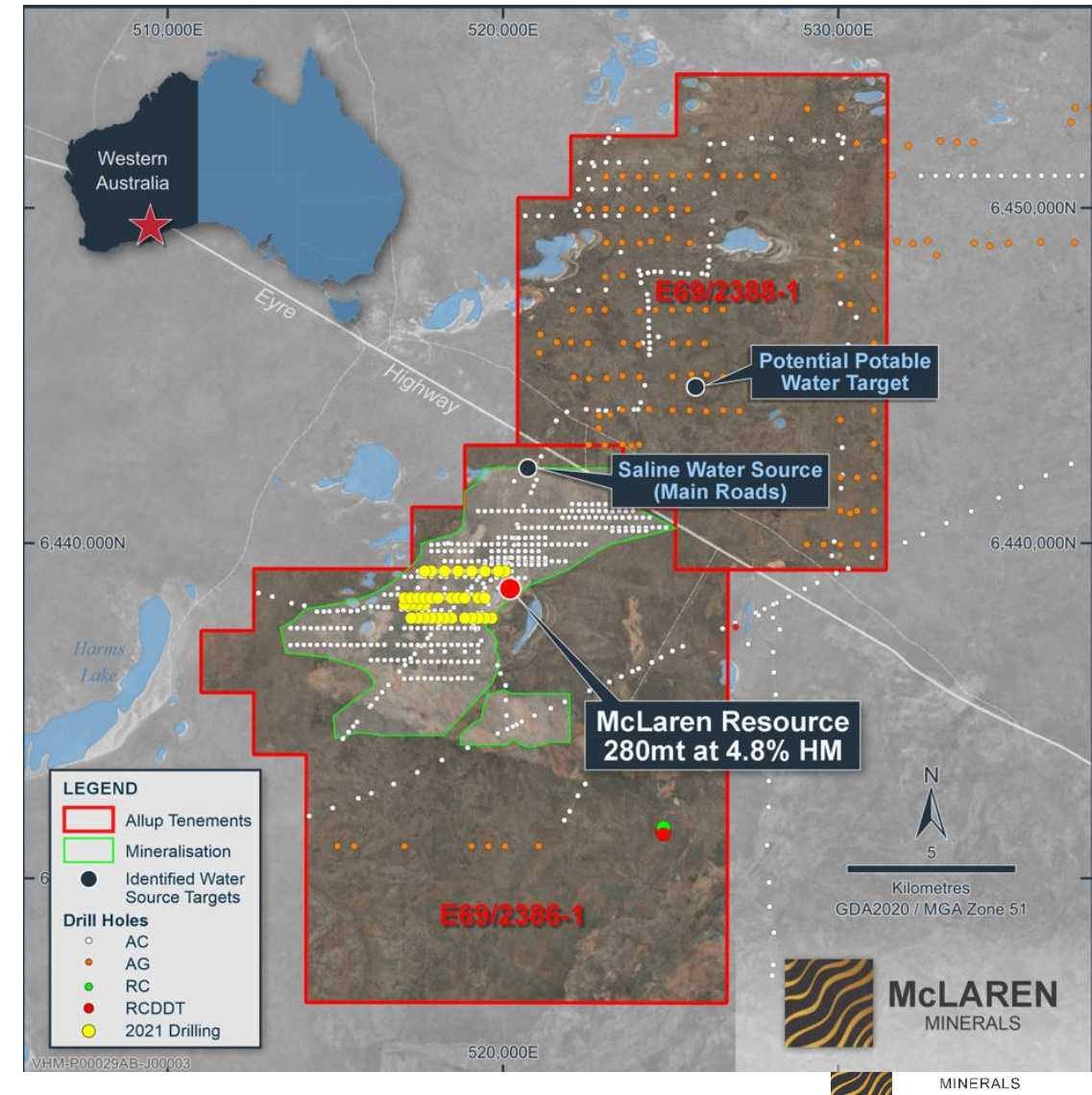
- Inferred and Indicated Resource of 280 Mt @ 4.8% Heavy Mineral Resource
- Topsoil/subsoil <1m then mineralisation - 15 to 35m thickness
- Deposit likely to be compatible with high tonnage mining strategy, with potential for low-cost operations through contracted services.
- Previous drilling - no induration or water encountered.

## Strategic Location, Crown Land:

- E69/2386 and E69/2388 cover 333 km<sup>2</sup> with widespread mineralisation outside the known resource.
- Located 5km south of the Eyre Highway, 420km by road to Esperance Port
- 40km west of Balledonia Roadhouse – accommodation & meals, airstrip

## Separation Technology:

- Previous test work on 14t bulk sample undertaken by IHC in 2018
- Traditional separation techniques appropriate for McLaren, including:
  - Feed Preparation: Hydro Cyclones and thickeners for efficient slimes removal.
  - WCP (Wet Concentrator Plant): Spirals using gravity to separate heavy minerals.
  - CUP (Concentrate Upgrade Plant): Magnetic separation to produce two concentrate streams.



# McLaren Project: Significant Resource Already Defined

**280 Mt @ 4.8% Heavy Mineral** Indicated and Inferred JORC Resource (CSA Global), 2% cutoff

Key minerals are **Ilmenite**, with lesser amounts of **Rutile**, **Leucoxene** and **Zircon**

Mineralisation from surface - 15 to 35m thickness

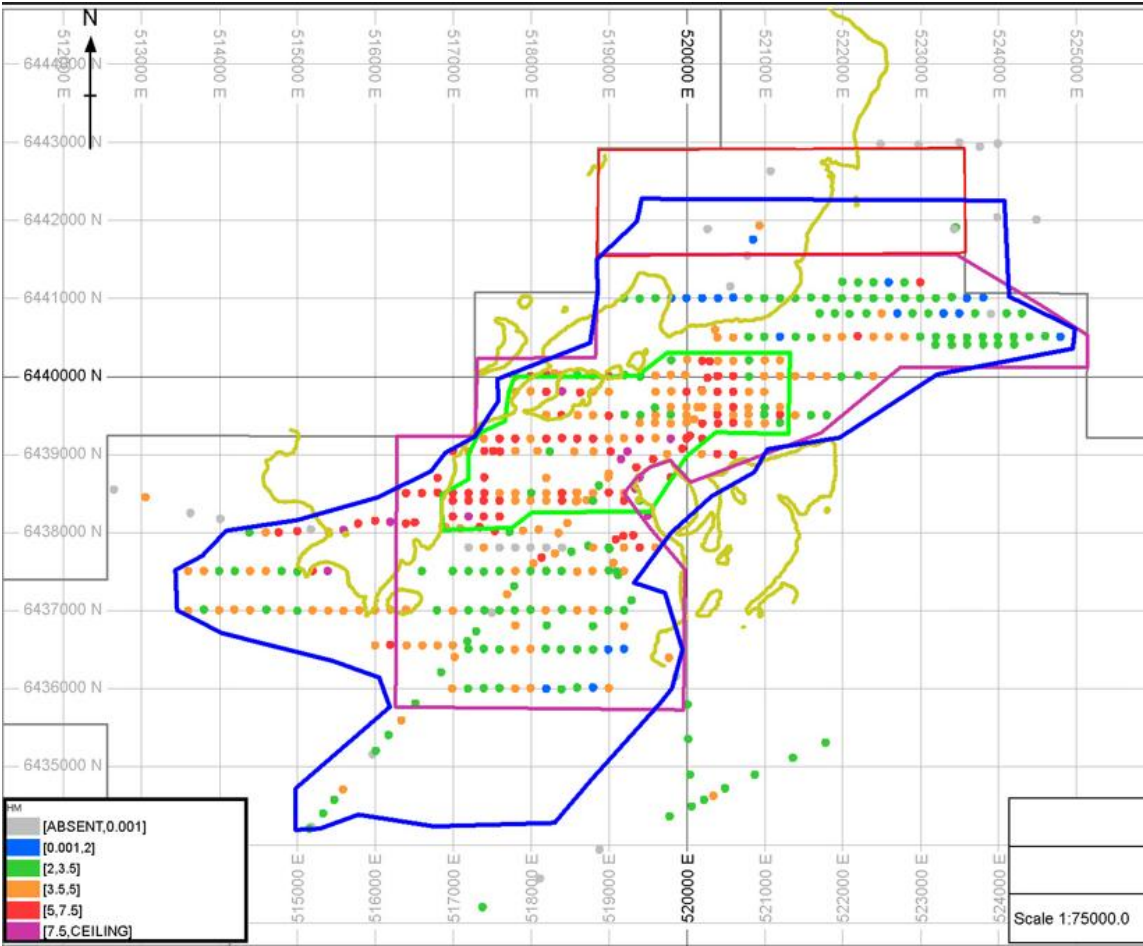
- Exceptional grade continuity and thickness at >2%
- 48%+ TiO<sub>2</sub> quality Ilmenite

JORC classification	Tonnes (Mt)	HM grade (%)	In-situ HM tonnes (Mt)	Slimes (%)	Ilmenite (% of HM)	Rutile (% of HM)	Leucoxene (% of HM)	Zircon (% of HM)
Indicated	79	6.0	4.7	25.0	30.4	0.7	1.9	0.6
Inferred	201	4.4	8.8	25.4	29.0	0.7	2.1	0.6
Total	280	4.8	13.5	25.3	29.4	0.7	2.0	0.6

JORC classification	Tonnes (Mt)	HM grade (%)	Ilmenite tonnes (in situ) (kt)	Rutile tonnes (in situ) (kt)	Leucoxene tonnes (in situ) (kt)	Zircon tonnes (in situ) (kt)
Indicated	79	6.0	1,440	32	90	26
Inferred	201	4.4	2,550	60	182	54
Total	280	4.8	3,980	92	272	80

ERM Australia Consultants Pty Ltd (ERM), formerly CSA Global prepared a Mineral Resource estimate update for the McLaren heavy mineral sands (HMS) deposit. The purpose of the Mineral Resource estimate update was to incorporate assay and mineralogical analysis results received since the previous Mineral Resource estimate was completed in 2015. The Mineral Resource estimate is presented in Table 1 reported above a cut-off grade of 2% Heavy Mineral (HM) and less than 30% Slimes. The model has been classified as Indicated and Inferred in accordance with the JORC Code. The Mineral Resource estimate is an update to the Mineral Resource estimate prepared by CSA Global in 2015. Refer to ASX announcement dated 5 August 2024.

Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The JORC Code, 2012 Edition. Prepared by: The Joint Ore Reserves Committee of The Australasian Institute of Mining and Metallurgy, Australian Institute of Geoscientists and Minerals Council of Australia (JORC).





# McLaren Development Strategy

## Pre-Feasibility Study:

Company target to define a Resource of 200Mt in the JORC Indicated category, with following characteristics:

- Simple dozer and trap mining planned
- Medium sized, 10Mtpa spiral concentration plant to produce up to 400,000tpa of ilmenite in concentrate.
- Focus is on a lower-cost Capex design to fast-track mine development.

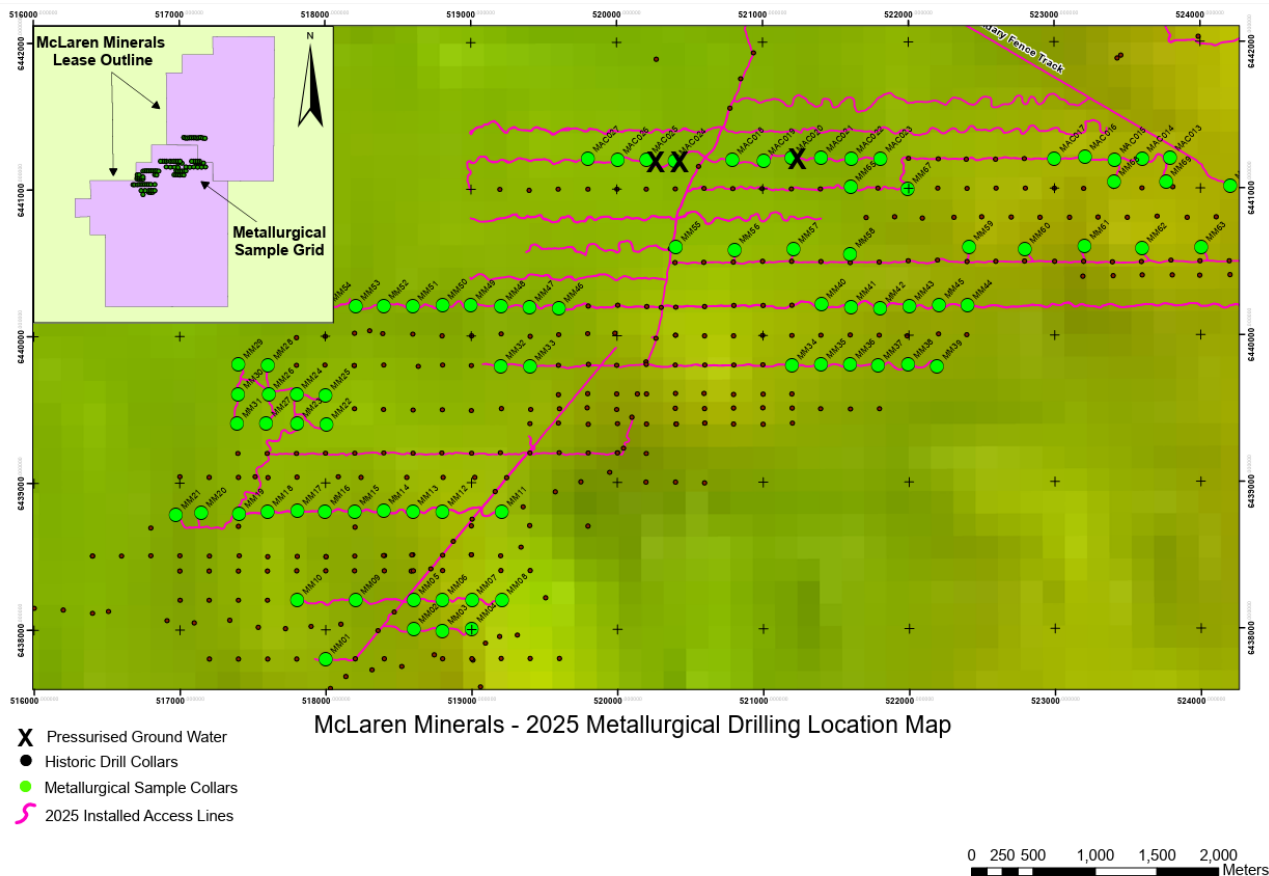
## Key Focus Areas:

- **Test Work:** Slimes test work to develop a conceptual management system.
- **Engineering:** Develop flowsheet for separation efficiency
- **Water Source:** Identification of suitable water sources, saline or fresh, for processing
- **Infrastructure:** Determine transport routes, accommodation needs, and other infrastructure requirements
- **Offtake Discussions:** Early discussions with potential buyers.

Image: Machinery shown in the picture does not belong to McLaren Minerals – photograph courtesy of Piacentini & Son



# McLaren Project: PFS Drilling Update & Observations



## Heavy Mineral Consistently Intersected:

- Mineralisation encountered as expected in Paleo marine sediments;
- Dominated by ilmenite;
- Vertical extension to historical drilling noted;

## Metallurgical sample collected/dispatched for test work:

- Validation/improvement to flowsheet design;
- Development of slimes management strategy;

## Pressurised saline water encountered:

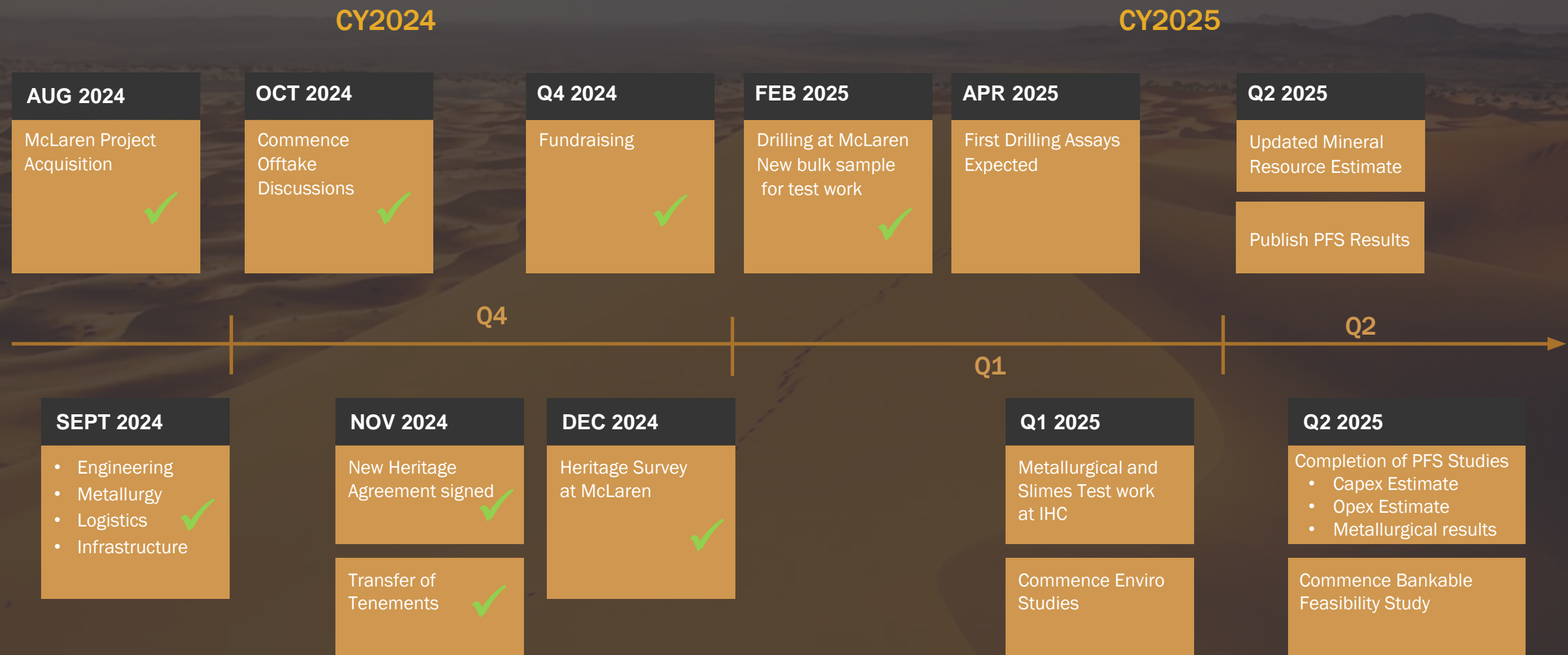
- 3 holes in northern part of known deposit with water flows at shallow depths;
- Further work will be undertaken in BFS.

## Gypsum occurrence confirmed:

- Surface outcrop of gypsum confirmed on McLaren tenements;
- Gypsum beneficial to slimes settling program;
- Samples taken for analysis;
- Further work to be undertaken.

## First parcel of analytical samples dispatched for analysis

# Fast-Tracking McLaren: Key Milestones to Unlock Titanium Production





# Ilmenite: A Key Driver in TiO<sub>2</sub> Production

## What is Ilmenite?

**Primary Source of TiO<sub>2</sub>:** Ilmenite is a titanium-iron oxide mineral and the main source of titanium dioxide (TiO<sub>2</sub>), essential for many industrial applications.

### Key Applications :

- **Pigment Production:** Used to produce TiO<sub>2</sub> pigments, used in paints, coatings, plastics, and paper for their brightness and opacity.
- **Titanium Metal:** Essential for aerospace, automotive, and medical industries due to its high strength-to-weight ratio and corrosion resistance.
- **Welding:** Used in the production of welding electrodes and rods.
- **Steel Processing:** Used in high-performance steel alloys.

### Global Market Overview:

- **Major Producers:** Australia, India, Mozambique, and Ukraine are among the top producers of high-grade ilmenite, with TiO<sub>2</sub> content ranging from 46% to 58%.\*
- **Top Exporters:** Australia's Iluka Resources, Rio Tinto, and India's VV Minerals, among others.\*

### Market Outlook:

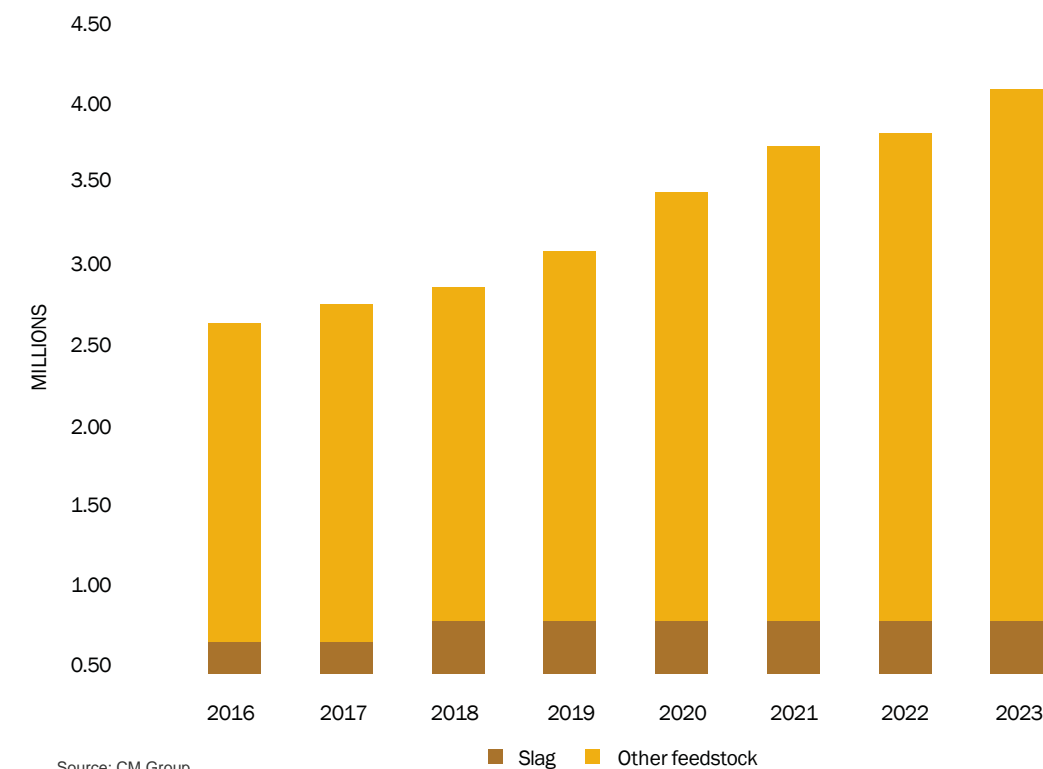
- **Price Increases:** is expected to reach **USD 15.61 billion by 2030**, expanding at a CAGR of 3.9% from 2023 to 2030, according to a new report by Grand View Research, Inc.\*\*
- **Growing Demand:** As industries expand, especially in the Asia-Pacific region, the demand for ilmenite and titanium dioxide is projected to increase significantly, driven by:
  - **Urbanisation and Industrialisation:** Particularly in emerging markets, leading to greater demand for paints, coatings, and industrial materials.
  - **Aerospace and Automotive:** The growing need for lightweight, durable materials in high-performance applications.
  - **Supply Deficits Expected:** Despite increasing production efforts, declining grades and stockpiles, combined with rising demand, could lead to supply deficits, further driving up prices and creating opportunities for new entrants in the market.

\*Source: CM Group

\*\* Source: [Ilmenite Market Growth & Trends](#)

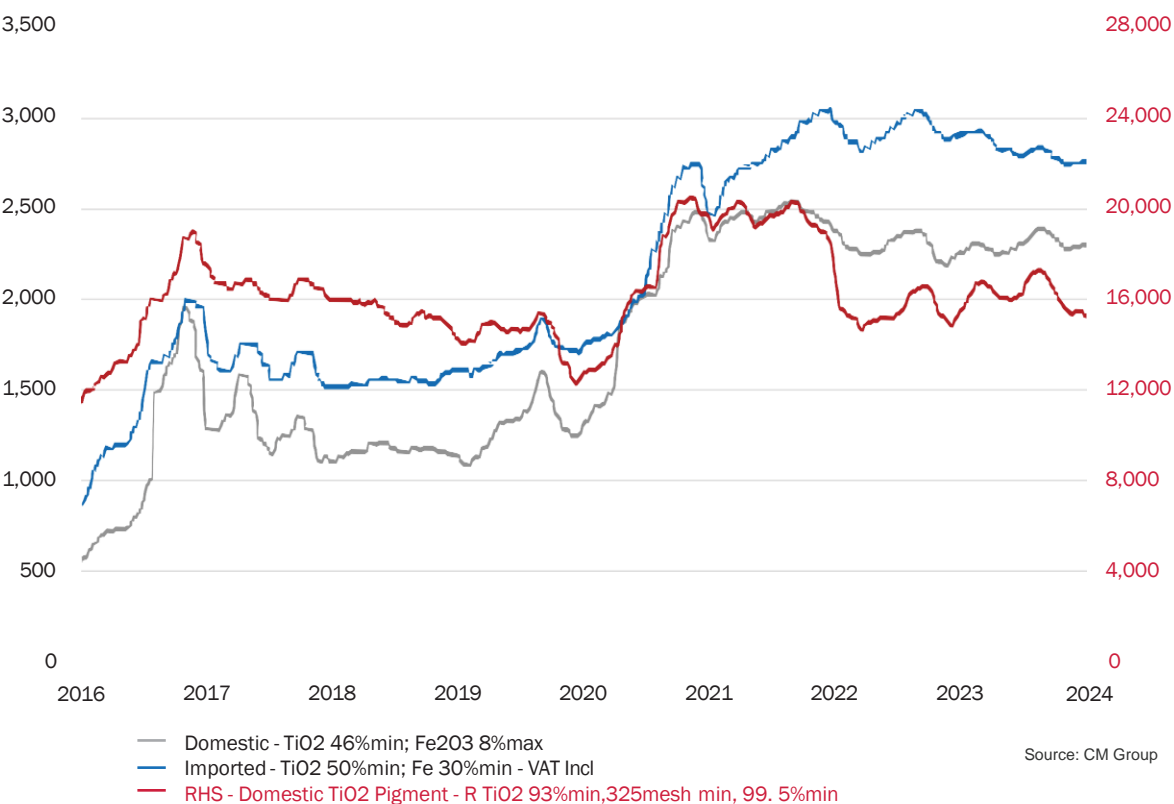
# Global mineral sands market: Growth and Price appreciation underway

## Tonnes of Chinese TiO<sub>2</sub> Pigment Production



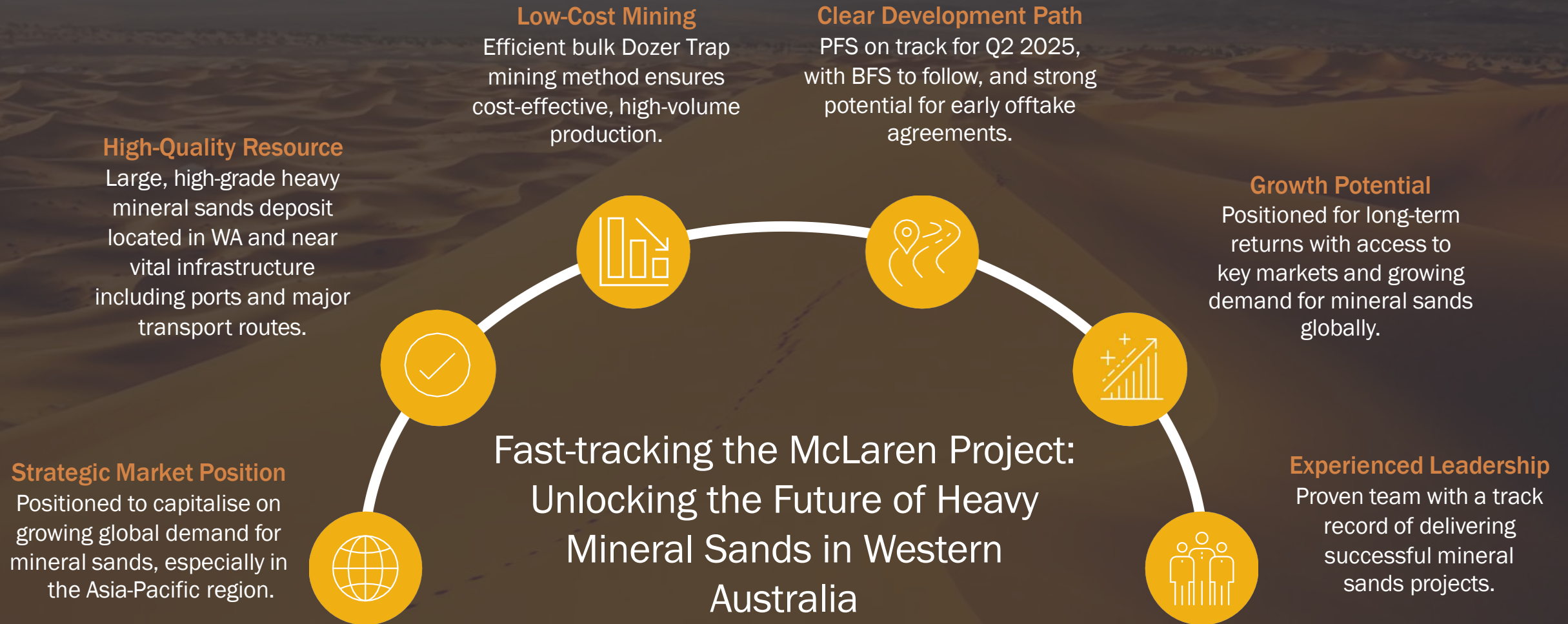
## Ilmenite Concentrate and TiO<sub>2</sub> Pigment Price

(2016 – 2024 YTD, RMB/t, VAT Incl)





# Investment Summary





# McLAREN

## MINERALS

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