

Iluka Resources

BMO Global Metals, Mining and Critical Minerals Conference

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Mineral Resources and Ore Reserve Estimates

As an Australian company with securities listed on the Australian Securities Exchange (ASX), Iluka is subject to Australian disclosure requirements and standards, including the requirements of the Corporations Act and the ASX. Investors should note that it is a requirement of the ASX listing rules that the reporting of Ore Reserves and Mineral Resources in Australia comply with the 2012 edition of the Australiasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code") and that the Ore Reserve estimates and Mineral Resource estimates underpinning the Production Targets in this presentation have been prepared by a Competent Person in accordance with the JORC Code.

Information that relates to Mineral Resources estimates, Ore Reserve estimates, Production Targets and forecast financial information form part of Iluka's Annual reserves and resource Statement included in its 2022 Annual Report available at <u>https://iluka.com/investors-media/asx-releases</u>. The original market releases containing the Mineral Resources estimates, Ore Reserve estimates, Production Targets and forecast financial information, as well as statements and consents referred to in Listing Rule 5.22 are referred to on the slides where the relevant Mineral Resources estimates, Ore Reserve estimates, Production Targets and forecast financial information appear in this presentation.

Iluka confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates, Production Targets and forecast financial information derived from Production Targets continue to apply and have not materially changed. Iluka confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

Production outlook

Production outlook and the basis thereof are noted within the relevant disclosure. The outlook included in this presentation is indicative only and should not be construed as guidance. The information is subject to changes in market and operating conditions; political risk; and any significant unplanned operational issues.

A global critical minerals company

Iluka is the world's largest producer of zircon; a major producer of high grade titanium feedstocks; and is set to become a globally material supplier of refined rare earths



Critical minerals for everyday life

Zircon, titanium and rare earths are used in an array of everyday applications and are critical for sustainable development, including global electrification

ASX listed

Listed on the Australian Stock Exchange (ASX:ILU) with a market capitalisation of A\$4.3bn¹

Operational experience

Over 70 years of critical minerals exploration, mining, processing, marketing and rehabilitation, with a pipeline of quality projects to meet growing demand

Sustainable supply chain

A safe, responsible and sustainable supplier of critical minerals, supporting the transition to a modern, lower carbon economy

Sustainability outcomes

Iluka's purpose is to deliver sustainable value

Zero fatalities and reduce injuries

18% Decrease in Group SPIFR from 2021

6.9 Group TRIFR up from 5.1 in 2021 (primarily musculoskeletal, minor lacerations) Improve employee diversity

24% Representation of women in total workforce

4.6% Indigenous* employment in Australian workforce including 21% at Jacinth-Ambrosia Strengthen community relationships

Cultural competency training implemented for all Australian employees Optimise mine closure outcomes

574ha rehabilitated across Australian and US sites Set and deliver Iluka's decarbonisation pathway

Increased proportion of renewables Introduced hybrid solar diesel electricity facility at Jacinth-Ambrosia

Approved installation of 9MW solar farm at Cataby

Priority on safe and respectful behaviours

Conducted company review and employee focus groups to inform actions to improve workplace culture and psychological safety **Electric Mine Consortium partnership** to support the development of long-term decarbonisation technology solutions



Jacinth-Ambrosia, South Australia *Aboriginal and Torres Strait Islander peoples

FY 2022 Key Features

Financial

Operational

Record revenue underpinned by sustainable approach to prices and resilient demand despite global macroeconomic uncertainty

Revenue \$1,727 million Zircon prices up 37% YoY Rutile prices up 23% YoY

Margins increased

Mineral Sands EBITDA margin 53%

NPAT \$589 million Net cash \$489 million

Final dividend 20 cents per share in line with dividend framework¹

Resilient cash flow generation continues

Free cash flow \$444m Operating cash flow \$711m operations at maximum settings

Higher zircon production in Q4 2022 following return to Ambrosia deposit at Jacinth-Ambrosia

Record synthetic rutile production from SR2

Australian

SR1 restarted successfully

Z/R/SR Production of 679kt

Zircon 303kt Rutile 139kt Synthetic Rutile 238kt

Key synthetic rutile contracts agreed

SR2 volumes contracted ~200ktpa for four years

SR1 volumes available for sale on a spot basis as planned

Strategic partnership with Northern **Minerals** agreed

Eneabba rare

partnership with

approved

earths refinery

\$1.25 billion risk sharing

Australian Government

few facilities globally

Positions Iluka at

forefront of global

electrification

An Australian first; one of

Additional source of heavy rare earth feedstock

Strategic

Balranald FID

Capital cost² - A\$480m NPV² - A\$400m IRR² - 23% Payback period² - 3 years

Key project milestones achieved SR1 restart – complete Wimmera – DFS

Wimmera DFS approved

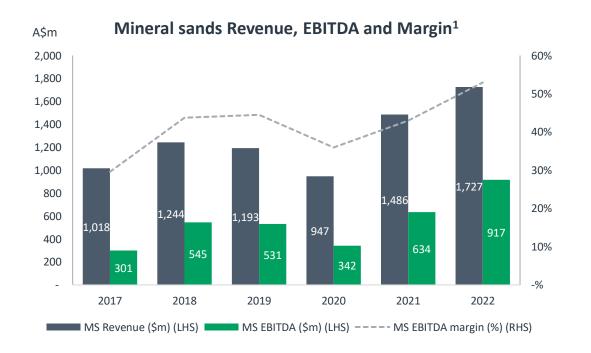
Ore Reserve declaration

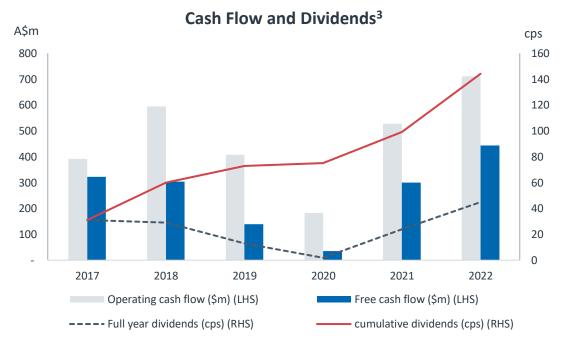
1. Free cash flow excludes cash demerged with Sierra Rutile Limited (ASX:SRX) 2. Refer Iluka ASX release Balranald Development – Final Investment Decision, 21 February 2023 Significant funding capacity and disciplined approach to capital management

Mineral sands	Deterra Royalties stake	Rare earths				
Debt Framework No net debt through the investment cycle						
Strong cash flow generation - average cash inflow over five years of \$400m Undrawn Multi Option Facility Agreement (MOFA) facilities \$570m, maturing December 2027	Deterra royalty stream set to benefit from production growth at BHP's Mining Area C South Flank ¹	Eneabba refinery fully funded in partnership with Australian Government via \$1.25 billion Critical Minerals Facility Ioan				
Dividends – minimum of 40% of free cash flow not used for investing or balance sheet purposes	100% of dividends received from Iluka's 20% stake in Deterra Royalties streamed to Iluka shareholders	Rare earths diversification does not put mineral sands business at risk				

Iluka's five-year financial performance

Iluka's track record demonstrates strong financial performance, despite varying market conditions and macroeconomic events





Features

- Iluka's mineral sands business has proven resilient, delivering strong financial performance
 - double-digit EBITDA and operating cash flow CAGR²
- Consistent adherence to dividend framework, including distributing 100% of dividends received from Deterra since its demerger in 2020 and a minimum of 40% of mineral sands free cash flow not required for investing or balance sheet purposes

Notes: 1. Mineral sands EBITDA margin defined as Mineral sands EBITDA/Mineral sands Revenue. 2. Compound Annual Growth rate (CAGR) for the period 2017-2022. 3. Full year dividends (cps) for the year end 31 December

Deterra Royalties



Mining Area C royalty receipts (A\$m)¹

Features

- Iluka holds a 20% interest in Deterra Royalties (ASX:DRR)
- DRR market capitalisation of \$2.56bn³
- Deterra's cornerstone asset is the BHP Mining Area C (MAC) royalty, including significant near term organic growth through the South Flank development
- Deterra dividend policy is to return all surplus cash, franked to the maximum extent possible⁴
 - Deterra has returned 100% of NPAT in fully franked dividends since its demerger from Iluka
 - Deterra achieved 95% EBITDA margin in H1 FY 2023
- Deterra provides Iluka an additional source of long term financial strength
- Iluka's dividend framework is to distribute 100% of all cash received from Deterra

Note: 1. Deterra H1 FY 2023 Results Presentation. Financial Year relates to Deterra 30 June year-end. 2. BHP South Flank presentation, 4 October 2022 available at www.bhp.com 3. As at 14 February 2023 4. Deterra's approach to dividends will be determined by the Deterra Board at its discretion and may change over time.

Mining Area C production (Mwmt)

Operations and projects in Australia



Note: Status of Iluka's projects: Balranald in execute; Wimmera in definitive feasibility study; Euston and Atacama in preliminary feasibility study.



Mineral Sands

Customers prioritising security of supply

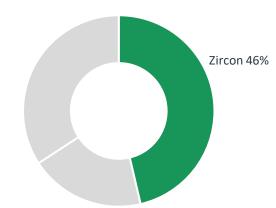
Markets – zircon

Demand resilient in FY 2022 despite global macroeconomic and geopolitical uncertainty

 FY 2022 sales 334kt (FY 2021: 355kt) Q4 2022 sales of 80kt up 27% on Q3 2022 sales zircon in concentrate (ZIC) sales 100kt 	US\$/t 2,800	Zircon net realised FOB pr
	2,400	
 Q4 2022 weighted average received zircon (premium and standard) price US\$2,054/t up 29% from Q4 2021 continued focus on sustainable pricing 	2,000 1,600 1,200 800 400 0	H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 11 11 12 12 13 13 14 14 15 15 16 16 17 17
 Security and reliability of supply increasingly prominent considerations for customers Iluka's supply remains tight Chinese ceramic market impacted by COVID restrictions, softness in the domestic real estate market and other economic pressures in 2022 recent removal of COVID restrictions expected to have a positive impact on demand for zircon, in line with increased economic activity European ceramic manufacturers slowed with price cap on gas creating uncertainty Indian ceramic market continues to outperform Prices for volumes contracted in Q1 2023 are in line with Q4 2022 		FY 2022 Z/R/SR Sales
	 US\$2,054/t up 29% from Q4 2021 continued focus on sustainable pricing Security and reliability of supply increasingly prominent considerations for customers Iluka's supply remains tight Chinese ceramic market impacted by COVID restrictions, softness in the domestic real estate market and other economic pressures in 2022 recent removal of COVID restrictions expected to have a positive impact on demand for zircon, in line with increased economic activity European ceramic manufacturers slowed with price cap on gas creating uncertainty Indian ceramic market continues to outperform 	 Q4 2022 weighted average received zircon (premium and standard) price 1,600 US\$2,054/t 1,200 800 up 29% from Q4 2021 400 continued focus on sustainable pricing 0 Security and reliability of supply increasingly prominent considerations for customers Iluka's supply remains tight Chinese ceramic market impacted by COVID restrictions, softness in the domestic real estate market and other economic pressures in 2022 recent removal of COVID restrictions expected to have a positive impact on demand for zircon, in line with increased economic activity European ceramic manufacturers slowed with price cap on gas creating uncertainty Indian ceramic market continues to outperform



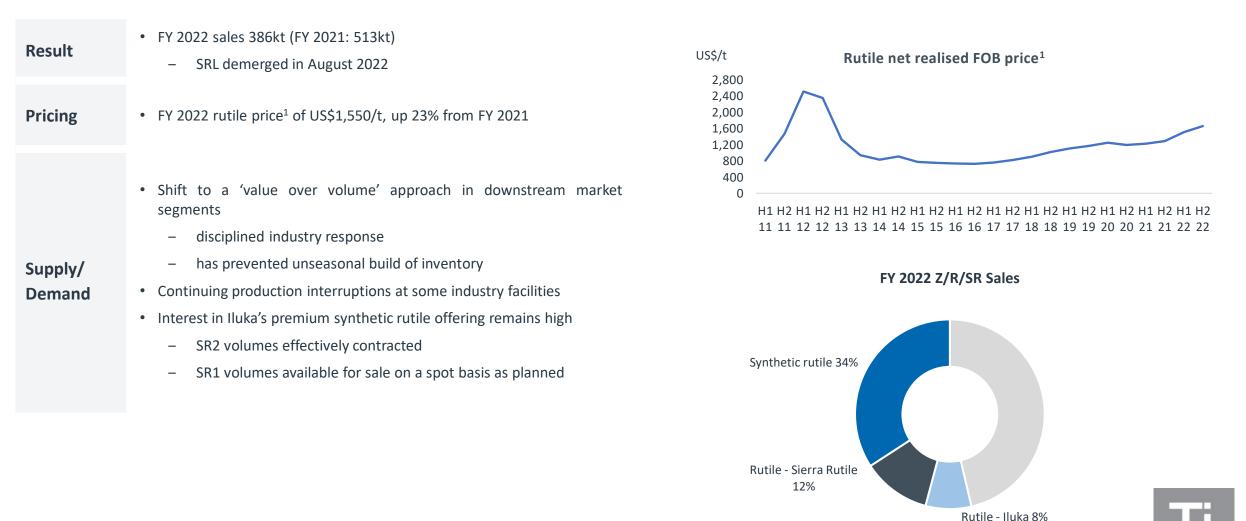
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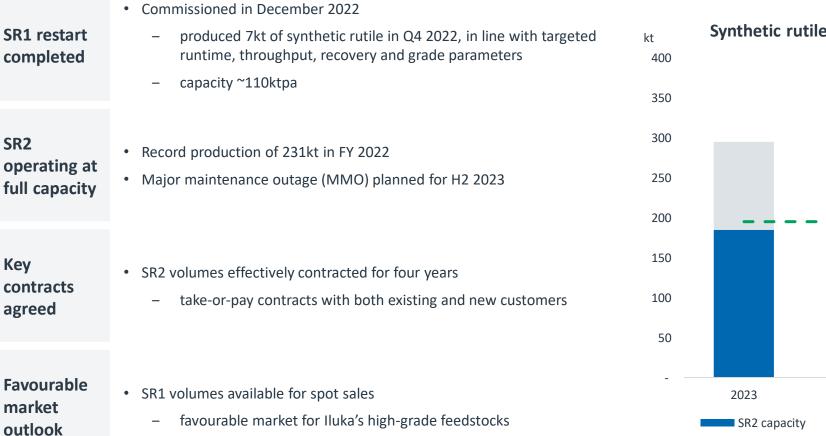
Note: 1. Zircon prices reflect the weighted average price for zircon premium, zircon standard and zircon in concentrate. The prices for each product vary considerably, as does the mix of such products sold period. In FY 2022 the split of zircon sand and concentrate by zircon sand-equivalent was approximately 70%:30% (2021 full year: 76%:24%).

Markets – high-grade titanium feedstocks

Strong, demonstrated level of customer interest for high grade feedstocks produced by Iluka in Australia



Offtake commitments for synthetic rutile increased to ~200ktpa contracted under 'take or pay' arrangements for the next four years



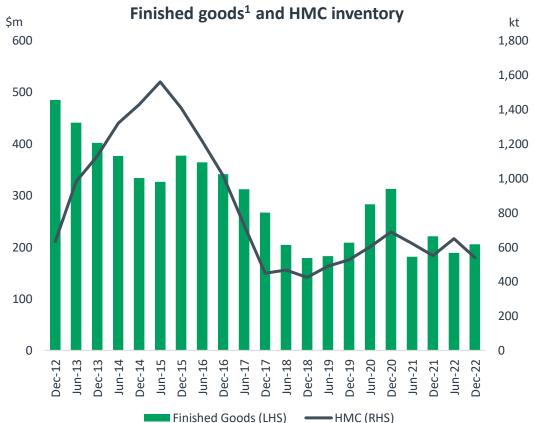
Synthetic rutile capacity and contracted volumes



Inventory position and industry evolution

Disciplined production responses an encouraging evolution for the mineral sands and downstream opacifier and pigment industries. This serves to reduce volatility, with positive implications for many through the supply chain

600 Iluka's inventory levels remain low - Z/R/SR sales exceeding production in 2022 500 Iluka's Heavy mineral concentrate (HMC) inventory of 540kt and finished goods inventory of \$206m at December 2022 inventory 400 finished goods stockpiles largely exhausted - drawdown on HMC stockpiles to meet demand in 2022 300 200 Disciplined approach in downstream market segments for zircon and • titanium feedstocks preventing unseasonal inventory build 100 Industry - many opacifier producers resisting efforts from end consumers evolution to discount year-end inventory ſ - unprecedented downward adjustment of pigment production in response to slowing demand



Balranald – final Investment decision

Project overview

Located in the Riverina district of south western New South Wales. The project is focused on the rutile and zircon rich West Balranald deposit. Owing to its relative depth (approximately 60 metres below surface), Iluka has over several years assessed the potential to develop West Balranald via a novel, unmanned, remotely operated underground mining (UGM) technology.

		• zircon - 50ktpa	Indicative Balranald underground mining unit		
Project metrics ¹ Financial metrics ¹	Average annual production	• rutile - 60ktpa			
		 synthetic rutile² - 50-70ktpa 			
		 sulphate ilmenite - 150ktpa 			
		 rare earth concentrate³ - 4ktpa 			
	Workforce	 construction ~250 			
		 production ~270 (including contractors) 			
	Capital cost ⁴	\$480m	Sand and clay overburden ~60 metres		
	Initial anticipated mine life	9 ½ years			
	Net present value (NPV) ⁵	\$400m			
	Internal rate of return (IRR) ⁵	23%	Ore Stope Ore		
	Payback period ⁵	3 years			
	Average unit cash costs of production (Z/R/SR) ⁶	\$1,125/t	Direction of mining		
	Average production cash costs ⁶	~\$225m pa			

1. Refer ASX release, *Balranald Development – Final Investment Decision*, 21 February 2023, available at www.iluka.com/investors-media/asx-disclosures. 2. Synthetic rutile production range based on chloride ilmenite feed blending ratio range of 18.5% to 24%. Iluka also expects to sell some chloride ilmenite to customers directly. 3. Comprises the rare earth bearing minerals monazite and xenotime. These will be refined to produce separated rare earth oxides at Iluka's Eneabba Rare Earth Refinery in Western Australia, the final investment decision for which was announced on 4 April 2022 (refer ASX release *Eneabba Rare Earths Refinery Final Investment Decision*, 4 April 2022). 4. Class 3 capital estimate, target accuracy range of -15% / +30%. Real cost 1 January 2023. 5. Valuation date 1 January 2023. Based on TZMI's pricing deck (base case from Issue 4, December 2022) for rutile, zircon and synthetic rutile, applying the long run FX forecast of 73 cents and a post tax discount rate of 7.3% (real). Payback period is calculated from first full year of production (2025). Project NPV includes the value attributable to refining Balranald's rare earth minerals to produce separated rare earth oxides at Eneabba Refinery. Rare earth oxide prices based on Adamas September 2021 price deck, applying the long run FX forecast of 73 cents and a post tax discount rate of 5.6% (real). 6. Production cash costs exclude royalties, rehabilitation and corporate overheads. Unit cash costs (Z/R/SR) are net of by-product credits (sulphate ilmenite, chloride ilmenite and ZIC). Real cost 1 January 2023.

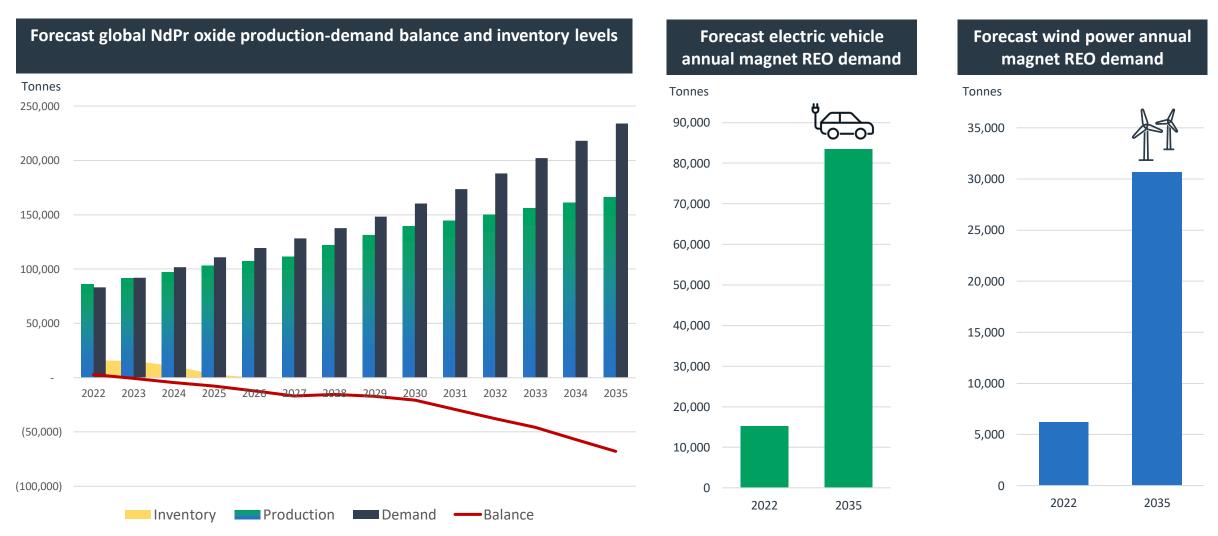


Rare Earths

Australia's first fully integrated refinery

Exponential global demand

Despite anticipated production increase, there is forecast to be a global deficit of ~7,700 tonnes p.a. of NdPr oxide by 2025, increasing to ~20,000 tonnes p.a. by 2030



Source: Adamas Intelligence.

Eneabba rare earths refinery – execution



- A fully integrated refinery producing separated rare earth oxides at Eneabba (Phase 3)
 - producing light and heavy rare earth oxides: neodymium, praseodymium, dysprosium and terbium
- Risk sharing arrangement with the Australian Government, including a \$1.25 billion nonrecourse loan
- Phase 1 Screening Plant and Phase 2 Beneficiation Plant commissioned producing a direct feed (90% monazite concentrate) for Phase 3 refinery
- Refinery commissioning 2025

- Engineering, Procurement and Construction Management (EPCM) contract awarded to Fluor Australia
- Bulk earth works and ground improvement activities progressed; kiln and construction camp contracts awarded
- All primary environmental approvals secured

Iluka's strategic partnerships for rare earths

Through strategic partnerships and collaboration, Iluka has de-risked its rare earths diversification financially and technically; and enhanced its future product offering for valuable heavy rare earths



Australian Government





- Risk sharing partnership with Australian Government includes A\$1.25 billion non-recourse loan
- Loan provided under Australian Government's Critical Minerals Facility, administered by Export Finance Australia
- Loan includes features to support resilience of Eneabba refinery in the face of potential technical, operating and/or market challenges
- Preeminent source of Western expertise for rare earths refining (based in France)
- Embedded within Iluka's owner's team for Eneabba project since 2020
- Knowledge and technology transfer agreement to build Iluka's capability
- Strategic partnership for supply of rare earths concentrate agreed October 2022
- Provides attractive opportunity to secure an additional source of quality feedstock
- Northern's deposit is uncommon globally, with a high assemblage of valuable heavy rare earths, dysprosium and terbium
- Most of the world's supply of dysprosium and terbium is currently derived from ionic clay deposits in China and Myanmar

Rare earths are among the key building blocks of an electrified, lower carbon global economy

Note: For further information, refer to ASX release *Eneabba Rare Earths Refinery Final Investment Decision*, 4 April 2022 and ASX release *Strategic Partnership with Northern Minerals Rare Earths Concentrate Supply*, 26 October 2022.

Iluka's rare earths feedstocks



Eneabba stockpile feedstock

- Contains both light and heavy rare earths
- 1.0 million tonnes of Mineral Resource stockpile rich in high grade rare earth bearing minerals, readily available at surface¹
- No mining infrastructure required, reducing time and cost for product extraction

Additional feedstocks for Iluka

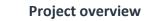
- Balranald in execute
- Wimmera gated to definitive feasibility study; economic Ore Reserve confirmed
- Northern Minerals strategic partnership agreed

Other third parties

Discussions ongoing

1. Refer ASX release, *Eneabba Mineral Sands Recovery Project Update*, 24 July 2019, available at www.iluka.com/investors-media/asx-disclosures. Updates to the Mineral Resource estimates for MSP By-products Stockpile were reported in Iluka's 2019 Annual Report, released 20 February 2020, Iluka's 2020 Annual Report, released 25 February 2021, Iluka's 2021 Annual Report, released 24 February 2022 and Iluka's 2022 Annual Report, released 21 February 2023, available at www.iluka.com/investors-media/asx-disclosures.

Wimmera – definitive feasibility study approved



WIM 100 BULK SAMPLE SITE

Ore extracted + Land rehabilitated + Agriculture resumed

ILUKA

A large, fine-arained deposit in Western Victoria providing a potential multi-decade source of both zircon and rare earths – including the highly valuable heavy rare earths dysprosium and terbium.

Technical challenge of physical separation resolved. Work continuing on processing solution for higher level of impurities in zircon.

Recent developments

- \$30 million DFS funding approved by Board in February
- Declared Ore Reserve of 180Mt at 5.4% HM containing 9.9Mt of HM on the basis of the value of its refined rare earth minerals¹
 - made possible as a result of parallel development of Eneabba refinery
 - zircon revenue has not yet been accounted for in Wimmera's Ore Reserve
- 9% increase in total reported HM Mineral Resource tonnage of WIM100 deposit to 450Mt at 4.6% HM containing 21Mt of HM¹

Outlook for 2023 and beyond

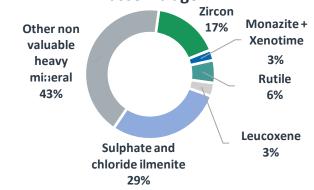
- DFS study initiation
- · Pilot scale testing of zircon purification process to continue, with goal in time of demonstrating commercial viability via demonstration plant, to be progressed alongside DFS

1. Refer ASX release Revised Announcement - Wimmera Development Progress: Wim100 Ore Reserve Estimate and Updated Mineral Resource Estimate, 22 February 2023, available at www.iluka.com/investors-media/asx-disclosures.

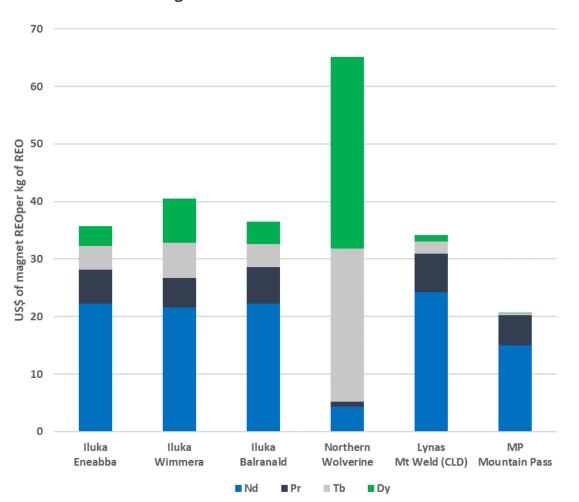
DFS parameters and basis of design ~10Mtpa ore Production ~425ktpa heavy mineral concentrate ~15ktpa rare earth concentrate Mine life 25+ years DFS to determine capex requirements Capex in advance of any execute decision DFS completion end 2025 Timing Potential commissioning 2028

rate

WIM100 Ore Reserve **HM** assemblage



Magnet rare earth oxide value per kilo



Magnet REO contribution to basket value

REO assemblages and prices

REO	lluka Eneabba ¹	lluka Wimmera WIM100 ¹	lluka Balranald ¹	Northern Browns Range Wolverine ²	Lynas Mt Weld (Central Lanthanide Deposit) ³	MP Materials Mountain Pass ⁴	2022 prices US\$/kg (Adamas)⁵
La	21.8%	17.7%	20.8%	2.0%	23.9%	33.8%	1
Ce	45.0%	37.4%	45.5%	5.0%	47.6%	49.6%	1
Pr	4.6%	4.0%	4.9%	0.7%	5.2%	4.1%	128
Nd	16.6%	16.1%	16.6%	3.2%	18.1%	11.2%	134
Sm	2.5%	2.7%	3.0%	2.2%	2.4%	0.9%	4
Eu	0.1%	0.1%	0.0%	0.5%	0.5%	0.1%	30
Gd	1.4%	2.3%	2.0%	5.8%	1.1%	0.2%	69
Tb	0.2%	0.3%	0.2%	1.3%	0.1%	0.0%	2,046
Dy	0.9%	2.0%	1.0%	8.7%	0.3%	0.0%	382
Но	0.2%	0.4%	0.1%	1.8%	0.0%	0.0%	179
Er	0.5%	1.2%	0.4%	5.2%	0.1%	0.0%	54
Tm	0.1%	0.2%	0.1%	0.7%	0.0%	0.0%	-
Yb	0.4%	1.1%	0.3%	4.1%	0.0%	0.0%	17
Lu	0.1%	0.1%	0.0%	0.6%	0.0%	0.0%	810
Y	5.6%	14.2%	5.0%	58.3%	0.8%	0.1%	12

1. Source: Iluka. Measured REO distribution in concentrate recovered

- 2. Northern Minerals ASX announcement, *Independent review increases Wolverine REE Mineral Resource estimate by 47% at Browns Range*, 10 October 2022
- 3. Lynas Corporation ASX announcement, Macquarie Conference Presentation May 2012, 2 May 2012
- 4. Resource Geology, Vol. 58 No. 4, Rare Earth Deposits of North America, by Stephen B. Castor.
- 5. Adamas Intelligence, Rare Earth Pricing Quarterly Outlook, Q1 2023

Note: Under Iluka's strategic partnership with Northern Minerals, Iluka will purchase concentrate from Northern's Browns Range project as an additional source of feedstock to the Eneabba rare earths refinery. Rare earth oxides will be marketed and sold by Iluka.

Supplementary Information

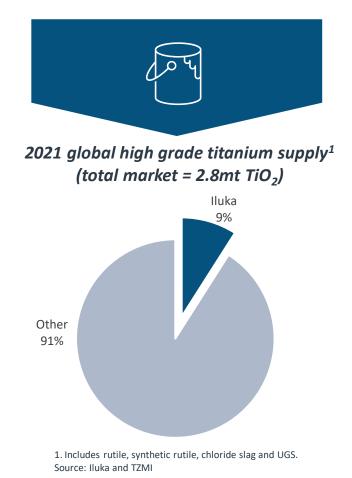
Iluka's market position

Iluka is a leading global producer of zircon and high grade titanium feedstocks; the company's rare earths diversification is expected to make a meaningful contribution to the sustainable supply of rare earths, with commissioning scheduled for 2025

Zircon

High grade titanium

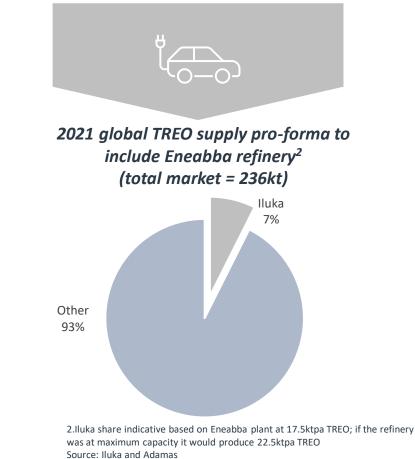
(Iluka products: rutile and synthetic rutile)



____/ 2021 global zircon supply (total market = 1.2mt) Iluka 28% Other 72% Source: Iluka and TZMI

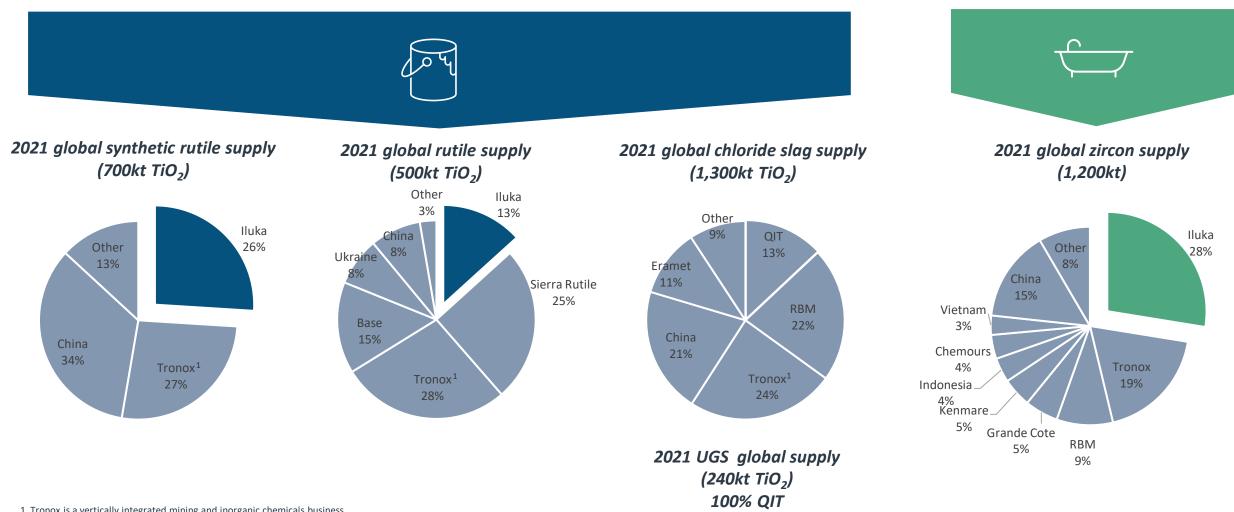
Rare earths

(Iluka future production: includes high value neodymium, praseodymium, dysprosium, terbium)



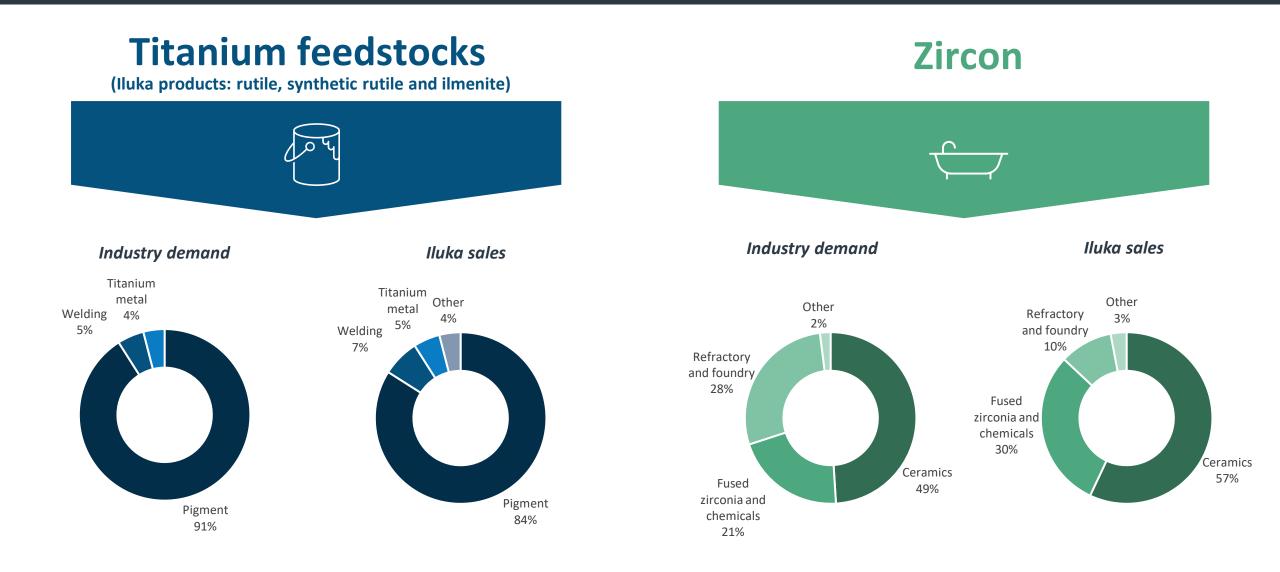
Market position - detail

Zircon



High grade titanium

Iluka 2021 sales detail





For more information contact

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