

Ionic Rare Earths, 11 December 2023

Ticker: IXR AU

Market cap: A\$102m

REC. (unc): BUY

Cash (PF): A\$11.3m

Project: Makuutu

Country: Uganda

RISK RATING (unc): HIGH

Ionic's consolidation of a further 34% project stake in Makuutu is another positive step. In our view, the mining license, consolidating the minorities, and a successful pilot plant are the three major key deliverables needed before the build. While we think higher prices are needed to secure the financing for Makuutu development, Ionic has done well to advance all three deliverables despite a difficult market. On valuation, we think the price paid is fair: the 425m shares equate to an implied A\$26m project value, while the up to 825m performance shares (contingent on mine licence receipt, mine financing, and both subject to IXR share price >A\$0.05/sh) provides upside to the vendor. Updating our model for 94% ownership, up from 60%, and for the recent A\$5m at A\$0.021/sh equity financing, our modelled NAVPS (based on 1% of insitu value for Makuutu at our LT US\$120-400-1500/kg NdPr-Dy-Tb prices), increases by 18% to A\$0.074/sh – this is before accounting for mine build dilution. After applying our 0.75x target multiple, we maintain our Buy rating and A\$0.05/sh price target. The key next steps are finalizing land acquisition which enables final granting of the mine license, and ideally negotiating a fiscal stability agreement. Such agreements are common for developing African mining projects as they protect the company against subsequent changes in tax and fiscal legislation. The thesis here remains that Makuutu remains an early mover levered to heavy rare earth prices, although admittedly we think higher prices are needed for IXR given lower grades than peers in Latin America.

34% stake in Makuutu acquired for 425m shares (A\$9m) plus up to 835m shares on milestones

Makuutu consolidation: Ionic announced agreement to acquire a further 34% interest in Makuutu from vendor Rare Earth Elements Africa (REEA). Consideration includes an initial 425m shares in Ionic plus i) 350m performance rights on issue of the Stage One mining license for Makuutu within 3-years of transaction completion; and ii) 350m performance rights vesting on Ionic obtaining binding funding commitments (debt or equity) to fund construction at Makuutu within 5-years of completion. Both performance rights are subject to IXR shares trading at a 30-day VWAP exceeding A\$0.05/sh. If both performance rights vest, REEA will gain a further 135m share bonus or cash equivalent at IXR's option. REEA will hold ~9% of outstanding fully diluted capital of IXR on completion (before vesting of any performance rights). Completion is expected to occur in 1Q24 subject to approval from other project minority partners, IXR shareholders, regulatory approvals in South Africa in Uganda, and FIRB (Australia) voluntary notification.

<u>Raise</u>: On 20th November, Ionic announced firm commitments for a 280.9m share at A\$0.021/sh capital raise for gross proceeds of A\$5.9m. In addition, an SPP for up to A\$2m was announced which is open until 15 December (Friday).

Why we like Ionic

- 1. Large ionic clay resource with enriched Dy and Tb content to directly supply HREEs to Western end users
- 2. Early mover with DFS completed; mine licence and land access nearly completed, and head start on supply chain integration with agreements with Ford and LGIM
- 3. Excellent infrastructure including highway, hydropower and reagents
- 4. Opportunity to become an integrated upstream and midstream supplier

Catalysts

- 1Q24: SCPe pilot plant, trial mining
- 2024 or market dependent: Updated DFS
- 2025 earliest or market dependent: Construction

Research

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Makbutut viabulum (1 % institu value)	Ticker: IXR AU	Price / mkt c	ар:		n, A\$102m		Market P/NAV:	0.17x			Makuutu	
Makabur (1946) NPV 40223	Author: J Chan / E Magdzinski / K Ko	Rec / PT:		BUY / A\$	0.06		1xNAV FD:	A\$0.09/	sh	Country	Uganda	
Makeustru (1194) mirely valuation (1194 insitity valuation (1194 insi	Group-level SOTP valuation	3Q23	4Q23				Resource / Reserve	Mt	pm TRE)00t RE0	m insit	EV/insit
Maximus value at SCP et I prive 10			US\$m	<u>-</u>		A\$/sh				340	21,656	0.29%
Manual valuation (**) in this value) 19	,			Į.								1.03%
Decentable 1	<u> </u>	rices)					· · · · · · · · · · · · · · · · · · ·					
Cartal costs and costs a								143	113	120	120	120
Cash Incomposing								-D (4.070.7	ED/EE	7.000.0
Cash Incomploting			. ,						. ,			
Post 1932 Signature Section												
SMANSWINDER PORT MINISTRANS							. ,					4,673
Masuut MPV8*s (USSm) Masuut MPV8*s (USSm				-	0.73x		· '	. ,	. ,	, ,	. ,	(0.00)
Seal Part Seal				ļ	0.75x			. ,	. ,	. ,		0.00
					0.70%		,		. ,	` '		(0.02)
Valuation (Ashsh)		price and dis		AV multir	ole	0.00	, ,	. ,	. ,	, ,	. ,	11%
0.50xNAV		i e				\$700/ka			. ,	. ,		(73%)
0.06NAVA							• • •	, ,		-	` '	(50%)
Makuutu NPV8% (US\$m)	0.60xNAV		0.04	0.04	0.04		• , ,					(569%)
Makuutu NPV8y (USSm)			0.05	0.05	0.06		• , ,	(9%)	(11%)	(11%)	(4%)	(5%)
12% discount	1.00xNAV	0.06	0.06	0.07	0.07	0.08	` '	. ,	, ,	, ,	. ,	(9%)
10% discount	Makuutu NPV8% (US\$m)	Dy: \$300/kg	\$400/kg	\$500/kg	\$600/kg	\$700/kg	ROCE (%)	(10%)	(12%)	(11%)	(2%)	(4%)
Makuutu NPV8/ (USSm) Recov. 20% 25% 27% 30% 35% 35% COG (USSm) 1	12% discount	-	-	-	10	21	PER (x)	(17x)	(20x)	(22x)	(13x)	(11x)
Makuutu NPV8'k (USSm)	10% discount	-	-	5	18	30	P/CF (x)	(26x)	(24x)	(20x)	(13x)	(12x)
Makuutu NPV8'k US\$m	8% discount	-	-	12	28	43	EV/EBITDA (x)	(13x)	(20x)	(17x)	(5x)	(15x)
Payability: 70% 3	5% discount	-	3	27	48	69	Income statement	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Payability: 60% Payability: 70% 3	Makuutu 1xNAV sensitivity to recovery	and payabilit	у				Revenue (US\$m)					13
Payability: 70% 60	Makuutu NPV8% (US\$m)	Recov: 20%	25%	27%	30%	35%	COGS (US\$m)					(15)
Payability: 90% 60	Payability: 60%	-	-	-		-	Gross profit (US\$m)		-			(2)
Payability: 90%	Payability: 70%	3	-	-	-	-	Expenses (US\$m)	(3)	(4)	(1)	(2)	(5)
Payability: 100% 161 143 139 136 137 138 139 136 138 139 136 137 138 139 136 138 139 136 138 139 136 138 139 13	Payability: 80%	60	47	44	43	44	Impairment & other (US\$m)					
Valuation over time 44,742 45,107 45,473 45,838 46,203 Minority interest (US\$m)	Payability: 90%	111	95	92	90	91	, ,	0				(2)
Makuutu NPV (US\$m)	· ·						, ,					
Downstream Do				•		•						
Exploration and in-situ tonnes	, ,	, ,	, ,	, ,				- ' '	- ' '			(8)
Chtrl G&A & fin costs (US\$m) (76.0) (78.3) (80.7) (90.9) (81.8) Profit/(loss) after tax (US\$m) (5) (5) (5) (5) (5) (8) Net cash at 1Q (A\$m) 8.0 20.3 18.5 76.1 1.5 Add non-cash items (US\$m) (0) (0) LNAV (US\$m) 0.18x 0.23x 0.25x 0.18x 0.19x Cash flow ops (US\$m) (4) (5) (5) (5) 5 1xNAV share px FD (A\$/sh) 0.12 0.10 0.09 0.13 0.12 PP&E (US\$m) (1) (3) (53) (5) (5) 5 NCP could ply holder (% pa) 450m 760m 56 54% 40% 60m (U\$\$m) (2) (1) (3) (53) (5)							, ,	. ,		. ,	. ,	(7)
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1xNAV (US\$m)	` '		. ,	, ,	, ,	, ,	, , , , ,	. ,				(10)
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1xNAV share px FD (A\$/sh) 0.12 0.10 0.09 0.13 0.12 PP&E (US\$m) (1) (3) (53) ROI to equity holder (% pa) 450% 108% 59% 54% 40% Other (US\$m) (1) Sources and uses of cash SCPe capex (U\$\$121m @ 60%) A\$10m SCPe current cash + options A\$12m Debt draw (repayment) (US\$m) 102 SCPe capex (U\$\$121m @ 60%) A\$10m Debt package A\$0m Equity Raised A\$75m Other (U\$\$m) 102 SCPe capex (U\$\$121m @ 60%) A\$13m Total U\$, ,							,		. ,		(23)
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Scale Scal							, ,		. ,		. ,	(31)
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Net change post forex (US\$m 16 6 6 2 130 130 140	• •			_90	ny maioou	7.47.0		30		6	178	
Production (100%) Jun '24 Jun '25 Jun '26 Jun '27 Jun '27 Jun '28 FCF (US\$m) (13) (6) (8) (48) Makuutu (t REE) 281 1,635 1,547 Cash (US\$m) 27 20 19 148 Makuutu (t Nd+Pr) 50 437 414 Accounts receivable (US\$m) 1 1 1 Makuutu (t Tb) 1 10 10 PPE & exploration (US\$m) 13 14 17 70 Makuutu (t Tb) 1 10 10 PPE & exploration (US\$m) 13 14 17 70 Makuutu (t Tb) 55 59 60 Other (US\$m) 9	· ·											(75)
Production (100%) Jun '24 Jun '25 Jun '26 Jun '27 Jun '27 Jun '28 Balance sheet Jun '22 Jun '24 Jun '25 Jun '25 Makuutu (t REE) 281 1,635 1,547 Cash (US\$m) 27 20 19 148 Makuutu (t Nd+Pr) 50 437 414 Accounts receivable (US\$m) 1 1 1 Makuutu (t Dy) 5 65 64 Inventories (US\$m)				Total	proceeds	A\$87m	- · · · · · · · · · · · · · · · · · · ·					(75)
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Makuutu (t Tb) 1 10 10 PPE & exploration (US\$m) 13 14 17 70 Makuutu revenue (US\$/kg REE) 55 59 60 Other (US\$m) 9 9 9 9 Makuutu cash cost (US\$/kg REE) 59 38 40 Total assets (US\$m) 49 44 45 227 Makuutu AISC (US\$/REE) 79 52 54 Debt (US\$m) 102 Refinery (TREO produced) Other liabilities (US\$m) 1 1 0 13 Refinery (t Nd+Pr) Shareholders equity (US\$m) 77 77 83 159 Refinery (t Dy) Retained earnings (US\$m) (29) (34) (39) (47) Refinery (t Tb)				50		414		1	1	1		2
Makuutu revenue (US\$/kg REE) 55 59 60 Other (US\$/m) 9 27 102 <th< td=""><td>Makuutu (t Dy)</td><td></td><td></td><td>5</td><td>65</td><td>64</td><td>Inventories (US\$m)</td><td></td><td></td><td></td><td></td><td>2</td></th<>	Makuutu (t Dy)			5	65	64	Inventories (US\$m)					2
Makuutu cash cost (US\$/kg REE) 59 38 40 Total assets (US\$/m) 49 44 45 227 Makuutu AISC (US\$/REE) 79 52 54 Debt (US\$m) 102 Refinery (TREO produced) Other liabilities (US\$m) 1 1 0 13 Refinery (t Nd+Pr) Shareholders equity (US\$m) 77 77 83 159 Refinery (t Dy) Retained earnings (US\$m) (29) (34) (39) (47) Refinery (t Tb) Minority int. & other (US\$m) Refinery share of Makuutu feed (%) Liabilities+equity (US\$m) 49 44 45 227 Refinery EBITDA margin (%)	Makuutu (t Tb)			1	10	10	PPE & exploration (US\$m)	13	14	17	70	120
Makuutu AISC (US\$/REE) 79 52 54 Debt (US\$m) 102 Refinery (TREO produced) Other liabilities (US\$m) 1 1 0 13 Refinery (t Nd+Pr) Shareholders equity (US\$m) 77 77 83 159 Refinery (t Dy) Retained earnings (US\$m) (29) (34) (39) (47) Refinery (t Tb) Minority int. & other (US\$m) Refinery share of Makuutu feed (%) Liabilities+equity (US\$m) 49 44 45 227 Refinery EBITDA margin (%) Net cash (US\$m) 27 20 19 46	Makuutu revenue (US\$/kg REE)			55	59	60		9	9	9	9	9
Refinery (TREO produced) 1 1 0 13 Refinery (t Nd+Pr) Shareholders equity (US\$m) 77 77 83 159 Refinery (t Dy) Retained earnings (US\$m) (29) (34) (39) (47) Refinery (t Tb) Minority int. & other (US\$m) Refinery share of Makuutu feed (%) Liabilities+equity (US\$m) 49 44 45 227 Refinery EBITDA margin (%) Net cash (US\$m) 27 20 19 46	Makuutu cash cost (US\$/kg REE)			59	38	40	Total assets (US\$m)	49	44	45	227	206
Refinery (t Nd+Pr) 83 159 Refinery (t Dy) Retained earnings (US\$m) (29) (34) (39) (47) Refinery (t Tb) Minority int. & other (US\$m) Refinery share of Makuutu feed (%) Liabilities+equity (US\$m) 49 44 45 227 Refinery EBITDA margin (%) Net cash (US\$m) 27 20 19 46	Makuutu AISC (US\$/REE)	<u></u>		79	52	54	Debt (US\$m)		-		102	102
Refinery (t Dy)	Refinery (TREO produced)	-					Other liabilities (US\$m)	1	1	0	13	2
Refinery (t Tb)	Refinery (t Nd+Pr)						Shareholders equity (US\$m)	77	77	83	159	159
Refinery share of Makuutu feed (%) Liabilities+equity (US\$m) 49 44 45 227 Refinery EBITDA margin (%) Net cash (US\$m) 27 20 19 46	Refinery (t Dy)						Retained earnings (US\$m)	(29)	(34)	(39)	(47)	(56)
Refinery EBITDA margin (%) Net cash (US\$m) 27 20 19 46	Refinery (t Tb)						Minority int. & other (US\$m)					
	Refinery share of Makuutu feed (%)						Liabilities+equity (US\$m)	49	44	45	227	206
	Refinery EBITDA margin (%)						Net cash (US\$m)	27	20	19	46	(28)
Refinery revenue (US\$/kg REO) Net debt to NTM EBITDA (x) 5.4x 4.1x 3.7x 7.0x	Refinery revenue (US\$/kg REO)						Net debt to NTM EBITDA (x)	5.4x	4.1x	3.7x	7.0x	1.4x



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BUY: The stocks total returns are expected to be materially better than the overall market with higher return expectations needed for more risky securities markets

NEUTRAL: The stock's total returns are expected to be in line with the overall market

SELL: The stocks total returns are expected to be materially lower than the overall market

TENDER: The analyst recommends tendering shares to a formal tender offering

UNDER REVIEW: The stock will be placed under review when there is a significant material event with further information pending; and/or when the research analyst determines it is necessary to await adequate information that could potentially lead to a reevaluation of the rating, target price or forecast; and/or when coverage of a particular security is transferred from one analyst to another to give the new analyst time to reconfirm the rating, target price or forecast.

NOT RATED ((N/R): The stock is not currently rated

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Summary of Recommendations as of December 2023				
BUY:	55			
HOLD:	0			
SELL:	0			
UNDER REVIEW:	0			
TENDER:	0			
NOT RATED:	0			
TOTAL	55			

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