Sprott	Equity Research		11 April 2023
Ticker: IXR AU	Cash: A\$20m	Project: Makuutu	
Market cap: A\$89m	Price: A\$0.02/sh	Country: Uganda	
REC. (unc): BUY	TARGET (-0.08): A\$0.07	RISK RATING (unc): HIGH	

In our view, the updated Makuutu DFS plus today's demo plant approval/timeline update accomplishes three key tasks: <u>First</u>, adjusting to lower prices and recovery expectations, it re-scopes the project to manageable 5Mtpa scale that limits capex to US\$120m with no further expansions. <u>Second</u>, it leaves room for upside in the form or larger column heights (up to 6m vs the 3m assumed in the DFS) to be confirmed in demo phase 1 and potentially implemented in demo phase 2. This could significantly reduce capex/opex if larger columns show good permeability/recovery/solution tenors. <u>Third</u>, the demo plant should give Ionic product specs at large enough volumes to secure offtake and inform final circuit design decisions. Given lower production volumes, we think a standalone downstream facility is less likely, this is a key step for third party partners and end users.

<u>So what?</u> Ionic has made the strategic adjustments needed given lower prices and lower recoveries – a lower capex project with detailed pilot plant phase to ensure a saleable mixed rare earth carbonated (MREC) product. This preserves upside if prices run hard, which is key in our view, given how Chinadominated the supply chain is, especially for heavy rare earths.

<u>Valuation:</u> Updating our DCF valuation for the DFS significantly hits value. At Adamas LT pricing, NPV_{8%} of US\$266m and 27% IRR (using our model) are still attractive vs US\$120m initial capex. At SCPe LT US\$150/kg NdPr, US\$500/t Dy and US\$2,200/kg Tb, the economics are less attractive, and even less so at currently depressed spot. Given the strategic value here, we think there is more value here than captured in just the DCF, as indicated by the delta between NPV at spot vs SCPe LT vs Adamas estimates. We therefore amend our valuation to a 50-50% blend of 0.75xNAV_{8%} and 1% of in-situ value at SCPe LT prices. **This results in an amended A\$0.07/sh price target, and we maintain our Buy rating.** At the current share price, we think it's a good opportunity to buy a quality project at the bottom, with i) upside potential from larger columns, 2) the company well funded with A\$19m on balance sheet, and 3) geopolitics heating up.

Update for DFS and pilot plant – we like the lower capex strategy but adjust for lower NPV

Today's pilot plant update: Ionic announced it has received approvals to build and operate the Makuutu Demonstration Plant. <u>Phase I</u> will include a test facility, analytical lab, and test units for heap desorption columns up to 6m height (DFS assumed 3m), nano-filtration and leach solutions. Construction is expected to be completed by late 2Q23. Confirmation of key parameters including heap stack height will precede <u>Stage 2</u>, which includes earthworks, three 5,000t heap desorption leach pads, lined ponds, irrigation pipes, and MREC and impurity precipitation circuits. Phases 1 and 2 are expected to be operational during 4Q23.

Makuutu DFS:

- <u>Inventory:</u> 172.9Mt at 848ppm TREO inventory at 5Mtpa production rate and 35% TREO (excl Ce) recovery resulted in 35-year mine life totaling 40.1kt LOM production of TREO in mixed rare earth concentrate = 1,156tpa LOM average annual production = 1,300tpa in years 1-10.
- <u>REE recoveries:</u> Nd = 33%, Pr = 28%, Dy = 49%, Tb = 45%; TREO excl Ce = 35% overall
- <u>Revenue</u>: at 70% payability for a mixed-rare earth carbonate at Adamas LT pricing = US\$3707m LOM = US\$21.44/t ore or US\$92/kg TREO
- <u>Unit costs</u>: US\$2.11/t mined at a 0.57x strip ratio, plus US\$7.57/t processed plus US\$1.5/t G&A = US\$53/kg of product, US\$12.4/t of ore or US\$61.3m per year. Govt royalties = 5% of revenue. CSR fund = 1% of revenue.
- <u>Scandium byproduct credits</u>: 30ppm head grade = 15tpa production @US\$775/kg and 70% payability = US\$277m LOM or a US\$6.86/kg credit per t of TREO produced.
- <u>Capex</u>: US\$121m initial capex and US\$19.3m LOM sustaining (US\$0.55m/year)

- <u>Economics</u>: US\$1.602bn LOM EBITDA (40% EBITDA margin), US\$1.023bn LOM FCF, US\$278m post tax NPV_{8%}, 32.7% IRR. Adamas price deck used for base case forecast increase from US\$57/kg (2021 actuals), US\$138.5/kg in 2035.
- <u>Key changes vs the PEA</u>: Removes staged expansions (PEA modelled 2.5Mtpa scaling up to 12.5Mtpa), inventory higher (173Mt at 848ppm and 0.57x strip vs prior 85Mt at 810ppm at 0.76x strip) results in 35-year mine life vs prior 11. Recoveries lowered from 55% TREO excl Ce to 27% plus flat 5Mtpa results in average annual production fall from 2,680tpa to 1,160tpa. Initial capex higher at US\$121m for 5Mtpa vs US\$89m for 2.5Mtpa but reduces sustaining capital from US\$212m over 11 years to US\$19m over 35 years.

Our view: DFS and development plant make best of challenging current conditions

First we run through **model changes.** We previously modelled modular 2.5Mtpa expansions reaching a peak of 15Mtpa throughput / 5,100tpa production from 2033. The advantage of that development concept was that it was large enough to anchor a standalone separation facility which we modelled at 7,000tpa of rare earths. The disadvantage was a capital intensive first 8 years where cash flow was continually reinvested into expansions. Revising our model to match the DFS throughput, but with a more gradual ramp up, drops the NPV8% on SCPe like-for-like pricing from US\$354m (at 100% ownership, note IXR owns 60%) to US\$66m and IRR from 24% to 15%. The main driver was recoveries, which fell from 55% TREO (excl Ce) to 27%, otherwise we think the flat 5Mtpa would likely have driven similar IRR if not similar NPV to the prior.

On **downstream** we revise our assumptions of a 100% owned standalone facility to 50% ownership of a 5ktpa facility. We model 2029 separation startup (previously 2026) and US\$200m capex for 5ktpa of separation capacity (previously US\$200m for 7ktpa). This results in US\$139m NPV for IXR's assumed 50% vs prior US\$421m for 100%.

Next **our thoughts on the DFS**: As mentioned, lower recoveries are negative, but given the testwork results, we think lonic did well to acknowledge the reality and scope of a more capital efficient project in response. The cost inputs appear robust – US\$2.11/t mined for free dig near surface material is reasonable, US\$7.57/t processed was higher than our prior estimate, though US\$1.50/t G&A may be on the low end depending on accommodation arrangements. In our view, sustaining capital is the input that could see a future increase as it works out to US\$0.55m/year, but US\$60-65m overall operating cost per year is similar to a ~18Mtpa slurry mineral sands operation and backfill costs are contained in opex.

Finally, on **today's pilot plant announcement**, despite the current challenging price environment, we think it makes sense to proceed with the pilot plant, as it will enable lonic to maintain first mover status and be the first to benefit, should rare earth prices or heavy rare earth prices run hard, presumably from a geopolitical shock or Chinese export quota reduction. Stage I of the pilot should enable lonic to work out heap size, leach dynamics (tenors, agglomeration, etc) and impurity management, which then enables it to implement it at scale in Stage 2. The potential game changer here would be if greater stack heights test well – that would enable a smaller heap footprint, thus either capex and opex savings.

Big picture view: Still like company and commodity, but optionality more important now

Ultimately, we think being a near-production source of heavy rare earths is something we want exposure to – it's almost a pure play trade on US-China bifurcation, with resource where supply is China-dominated. In our view current prices are a reflection of the domestic Chinese supply-demand dynamic and increased quotas, however if the West is to diversify supply, deposits like Makuutu and AR3's Koppamurra will have to enter production. The key here is to preserve the capital structure and advance the project to take advantage of a price adjustment, and we think Ionic is well positioned with A\$19m cash, and the demonstration plant stages 1 and 2 in 2023.

Why we like Ionic

- The largest ionic clay deposit available to directly supply HREEs to Western end users
- Able to get into production by SCPe 2025
- Excellent infrastructure including highway, hydropower and reagents
- Opportunity to become an integrated upstream and midstream supplier

Catalysts

- 2023: SCPe pilot plant, trial mining
- 2024: SCPe first production and ramp up
- 2025: SCPe steady state production

Research

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Ticker: IXR AU Author: J Chan / E Magdzinski	Price / mkt cap Rec / PT:):	A\$0.02/sh, / BUY / A\$0.0			Market P/NAV: 1xNAV FD:	0.16x A\$0.10/sh		Assets: Country:	Makuutu Uganda	
Group-level SOTP valuation	4Q22	1Q23				Resource / Reserve	Mt	ppm TREO	000t REO	\$m insitu	EV/insitu
		US\$m	0/ship	NAVx	A\$/sh	Measured, ind. & inf.	532	640	340	21,656	0.23%
Makuutu (60%) NPV 1Q23		40	60%	0.75x	0.01	SCPe Mine Inventory	173	856	148	6,024	0.83%
Makuutu (1.5% insitu value at SCPe LT prices)	364	60%	0.75x	0.09	Commodity price	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Makuutu valuation (50-50% DCF+ insitu valu	ie)	202	60%	0.75x	0.05	NdPr price (US\$/t)	143	113	150	150	150
Downstream		139	100%	0.75x	0.04	Share data					
Central SG&A & fin costs 1Q23		(74)	-	0.75x	(0.02)	Basic shares (m): 3872.6	FD +	options (m):	4,085.1	FD/FF	5,568.3
Cash and restr. cash 4Q22		14	-	0.75x	0.00	Ratio analysis	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Cash from options		6	-	0.75x	0.00	FD shares out (m)	3,873	5,356	5,356	5,356	5,356
Debt 4Q22		-	-	0.75x	-	EPS (US\$/sh)	(0.00)	(0.00)	(0.00)	(0.00)	0.00
1xNAV8% spot fully diluted, pre-funded		286			0.07	CFPS before w/c (US\$/sh)	(0.00)	(0.00)	0.00	(0.01)	0.00
Assumed equity raised		60		0.75x	0.01	FCFPS pre growth (US\$/sh)	0.00	(0.00)	0.01	0.00	0.00
1xNAV8% spot fully funded		346			0.07	FCF/sh (US\$/sh)	(0.00)	(0.00)	(0.01)	(0.02)	0.00
1x fully funded NAVPS sensitivity to gold pri	ice and discount	/ NAV multi	ple			FCF yield pre growth (US\$/sh)	3%	(4%)	28%	1%	2%
Valuation (A\$/sh)	\$100/kg	\$125/kg	\$150/kg	\$175/kg	\$200/kg	FCF vield (%)	(14%)	(5%)	(42%)	(69%)	2%
0.50xNAV	0.03	0.04	0.04	0.05	0.06	EBITDA margin (%)	-	-	-	(34%)	15%
0.60xNAV	0.04	0.05	0.05	0.06	0.07	FCF margin (%)				(573%)	4%
0.75xNAV	0.05	0.06	0.05	0.08	0.08	ROA (%)	(9%)	(4%)	(5%)	(7%)	0%
1.00xNAV	0.05	0.08	0.07	0.08	0.08		(9%)	(4%)	(10%)	(7%)	0%
						ROE (%)					
Makuutu NPV8% (US\$m)	\$100/kg	\$125/kg	\$150/kg	\$175/kg	\$200/kg	ROCE (%)	(10%)	(4%)	(2%)	(3%)	3%
12% discount	(21)	(4)	13	30	47	PER (x)	(17x)	(21x)	(10x)	(9x)	405x
10% discount	(16)	5	25	45	65	P/CF (x)	(27x)	(25x)	(10x)	(9x)	33x
8% discount	(9)	15	40	64	89	EV/EBITDA (x)	(14x)	(4x)	(7x)	(23x)	11x
5% discount	3	39	73	108	143	Income statement	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Makuutu 1xNAV sensitivity to recovery and	payability					Revenue (US\$m)				15	66
Makuutu NPV8% (US\$m)	Recov: 20.0%	25.0%	27.0%	30.0%	35.0%	COGS (US\$m)				(15)	(51)
Payability: 60%	-1	-12	-15	-17	-19	Gross profit (US\$m)				(0)	15
Payability: 70%	63	44	40	36	34	Expenses (US\$m)	(3)	(4)	(1)	(2)	(5)
Payability: 80%	121	98	93	88	86	Impairment & other (US\$m)					
Payability: 90%	178	152	147	141	137	Net finance costs (US\$m)	0		(7)	(8)	(3)
Payability: 100%	235	206	200	193	189	Tax (US\$m)					(3)
Valuation over time	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26	Minority interest (US\$m)					
Makuutu NPV (US\$m)	37.0	40.6	83.7	129.7	131.6	Net income attr. (US\$m)	(3)	(4)	(9)	(11)	4
Downstream	121.0	130.7	141.2	152.5	164.7	EBITDA (US\$m)	(5)	(5)	(5)	(5)	10
Exploration and in-situ tonnes	363.8	363.8	363.8	363.8	363.8	Cash flow	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Cntrl G&A & fin costs (US\$m)											
	(72.9)	(75.0)	(81.1)	(62.4)	(60.8)	Profit/(loss) after tax (US\$m)	(5)	(5)	(12)	(14)	0
Net cash at 1Q (A\$m)	13.8	105.2	90.2	5.5	8.4	Add non-cash items (US\$m)	1			1	3
1xNAV (US\$m)	463	565	598	589	608	Less wkg cap / other (US\$m)	(0)		12	(20)	(0)
P/NAV (x):	0.11x	0.12x	0.14x	0.14x	0.13x	Cash flow ops (US\$m)	(4)	(5)	0	(33)	3
1xNAV share px FD (A\$/sh)	0.20	0.18	0.17	0.17	0.17	PP&E (US\$m)		(1)	(52)	(51)	(0)
ROI to equity holder (% pa)	772%	184%	94%	64%	49%	Other (US\$m)	(2)	(1)			
Sources and uses of cash						Cash flow inv. (US\$m)	(11)	(1)	(52)	(51)	(0)
SCPe evaluation cost	s A\$10m	SCP	e current casl	h + options	A\$28m	Debt draw (repayment) (US\$m)			102		
SCPe capex (US\$121m @ 60%) A\$103m		De	bt package	A\$102m	Equity issuance (US\$m)	30	85	7		
SCPe contingenc				uity Raised	A\$74m	Other (US\$m)					
SCPe G&A + fin. cost to prod				,		Cash flow fin. (US\$m)	30	85	109		
SCPe working capita						Net change post forex (US\$m)	16	78	57	(85)	3
Total use			Tota	al proceeds	A\$204m	FCF (US\$m)	(13)	(6)	(52)	(85)	3
Production (100%)	Jun '24	Jun '25	Jun '26	Jun '27	Jun '28	Balance sheet	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Makuutu (t REE)		281	1,244	1,635	1,547	Cash (US\$m)	27	105	162	77	80
Makuutu (t Nd+Pr)		50	196	437	414	Accounts receivable (US\$m)	1	1	1	6	8
Makuutu (t Dy)		5	31	65	64	Inventories (US\$m)				6	6
Makuutu (t Tb)		1	5	10	10	PPE & exploration (US\$m)	13	14	66	117	114
Makuutu revenue (US\$/kg REE)		62	62	71	72	Other (US\$m)	9	9	9	9	9
Makuutu cash cost (US\$/kg REE)		59	45	38	40	Total assets (US\$m)	49	129	238	215	218
Makuutu AISC (US\$/REE)		82	70	55	57	Debt (US\$m)			102	102	102
Refinery (TREO produced)						Other liabilities (US\$m)	1	1	13	4	6
Refinery (t Nd+Pr)						Shareholders equity (US\$m)	77	162	169	169	169
Refinery (t Dy)						Retained earnings (US\$m)	(29)	(34)	(46)	(60)	(60)
						Minority int. & other (US\$m)			(40)		
Refinery (t Tb)											210
Refinery (t Tb) Refinery share of Makuutu feed (%)						Liabilities+equity (US\$m)	49	129	238	215	218
Refinery (t Tb) Refinery share of Makuutu feed (%) Refinery EBITDA margin (%) Refinery revenue (US\$/kg REO)											218 (21) 0.6x

Source: SCP estimates



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TOTAL	55

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