

Ticker: CTM AU4Q20 Cash: A\$24mProject: JaguarMkt cap: A\$232mPrice: A\$0.71/shCountry: BrazilRECOMMEND (unc): BUYTARGET (unc): A\$1.20/shRISK RATING: HIGH

On paper, today's study suggests that POX is a no brainer, with payability lifting from ~75% to ~100%, a US\$110m capex lift drives a US\$227m NPV lift, faster payback, and no offtaker dependence. A 19% drop in AISC on a cash-basis indirectly supports a 30% increase in mining inventory, particularly UG where ROM nickel ~doubled from 43kt to 86kt nickel for a 3Y mine life extension. That before 65,000m drilling this year against 74,500m in the resource. POX has been used on nickel and nickel-copper matte for many years at Harjavalta in Finland, and is increasingly common to treat arseno-pyrite gold ores. It isn't used in Australia, where the requisite water / limestone / low-cost power aren't present, all 'dumb luck' positives given CTM's location in Brazil. **ESG impact** is key as hydroxide gives more direct access to the fast-growing EV markets, where a material premium per nickel unit should emerge given the far lower CO₂ emmisions of sulphides vs. laterites being converted to hydroxide. In fact, Centaurus noted today that the US\$1,102/t sulphate premium modelled is 'less than the current estimated cost of producing nickel sulphate by dissolving nickel briquettes (matte) in acid'. Strategically, the optionality to produce either concentrate or hydroxide is as important for potential M&A buyers as for Centaurus in our view. We expect different groups to prefer concentrate only (lower technical risk, lower capex), POX (to sell straight to EV market, and with highest NPV), or a hybrid of both, potentially starting with concentrate and bootstrapping toward POX. By doing a DFS on POX, Centaurus can effectively present a concentrate scenario as well (the front end). For now, we retain our base-case concentrate model maintaining our BUY rating and 0.5xNAV_{7%-8,00/lb} A\$1.20/sh **PT.** Whilst our A\$730m NPV_{7%-17,637} is lower than the published A\$831m NPV_{8%-17,362}, it dwarfs the current market cap, as does the ~A\$2/sh fully-funded fully-diluted 1xNAV in production compared to ~70c price today. We think that the ASX listing and Brazil location means this asset has 'slipped through the cracks' of global equity markets, and is deserved of substantial premium as the only undeveloped nickel asset globally with scale (>30Mt), grade (>1%) and price (<\$250m mkt cap).

Table 1. Production and economic metrics of POX vs. concentrated, and SCP unchanged conc. scenario

		СТМ		SCP			СТМ		
Jaguar (100%)	Conc	POX	Δ (%)	Conc.	Jaguar (100%)	Conc	POX	Δ (%)	
Pit inventory (Mt ore)	29.6	36.6	24%	29.6	Pit mining cost (US\$/t ROM)	2.57	2.60	1.2%	
Strip ratio (x)	6.0	6.5	9.0%	6.0	UG mining cost (US\$/t ROM)	50.5	47.5	-6.0%	
Grade (% Ni)	0.78%	0.76%	-3%	0.78%	Processing cost (US\$/t ROM)+	11.3	28.0	69%	
UG inventory (Mt ore)	3.2	8.5	165.6%	3.2	By-product credit (US\$/t ROM)	-	-8.8	-	
Grade (% Ni)	1.36%	1.01%	-26%	1.36%	G&A cost (US\$/t ROM)	2.13	1.98	-7.0%	
Nickel mined (000t Ni)	260.3	341.0	31%	260	C1 cost (US\$/lb, LOM average)	2.41	3.29	-23%^	• •
Peak ROM (000t pa)	2,700	>>	0.0%	2,700	AISC (US\$/Ib, LOM average)	2.97	3.94	-19%^	
Recovery (LOM, %)	78%	>>	0.0%	78%	Initial capex (US\$m)	178	288	62%	
Production (avg, 000t Ni in con pa)	20.3	>>	0.0%	18.4	LOM sustaining capex (US\$m)	138	213	54%	
Mine life (years)	10.0	13.0	30%	11.0	AUD / USD	0.75	>>	0.0%	
Nickel price (US\$000/t)	16,530	17,362	5.0%	17,637	Discount rate (%)	8.0%	>>	0.0%	
Payability (%)	75%	100%	33%	75.0%	Project NPV (A\$m)	604	831	38%	Ì
Transpt. To China (US\$/t con)	131	-	-	131	Asset IRR (%)	54%	52%	-3.7%	

Source: Centaurus, SCP estimates; *as sulphide in coc. Or as sulphate; ^AISC US\$2.97/lb for concen. Equates to US\$4.84/lb AISC incl. deductions as cost; +Net of by-product credits

Value add study shows great optionality (on increased profits) with strong financial metrics

Following from the concentrate-only PEA in 1Q21 at 75% payability, Centaurus has released a scoping study for oxidation of concentrate to produce 100% payable hydroxide, modelled at a 50c/lb premium to metal. The open pit and underground remain, although the higher payability drives a lower cost off for an overall 31% lift in nickel mined. This mainly came from UG material which lifted from 3Mt to 8Mt, also benefitting from backfill-enabled mining extraction increases. With the same front-end float plant, the only delta above-ground is the addition of a POX circuit. This comprises leach, autoclave with oxygen,



neutralization and CCD + SX to crystalise nickel sulphate, with simple precipitation of metal sulphide precipitate to capture Co and Zn and some additional nickel credits. Net net, the overall impact is a **US\$110m lift in capex in exchange for US\$227m lift in NPV, a 3 year mine life extension, and broadly similar payback** and IRR at 1.8 years and 52%, respectively. As a consequence the board has decided to move direct to DFS – as the POX design requires a concentrator up-front, this preserves the optionality of a concentrator-only option. The permitting process is targeting initial lodgements in 3Q21.

Concentrate
Concentrate
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Figure 1. Process flow sheet for PEA base case (yellow) and value-add study (green)

Source: Centaurus

Why we like Centaurus Metals

- Only >100kt Ni contained, <\$500m capex, pittable nickel sulphide junior globally
- 2. Drilling of 65,000m this year likely drives resource growth / dis vs. <75,000m in resource itself
- 3. Optionality on POX given water / limestone / cheap hydro not available in Australia
- 4. Good logistics, including rail in a well-known mining jurisdiction
- Quality 16% concentrate with low As, low Mg

Catalysts

- 1. 3Q21: Lodge environmental license
- 2. SCPe 4Q22: BFS
- 3. 2024: Target first production

Research

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Ticker: CTM AU	Price / m	kt cap:	A71c/sh	/ A\$232	m	P/NAV today:	0.31x		Country	Brazil	
Author: B Salier, B Gaspar		-		######		1xNAV7%4 ₀₂₁ FF FD:	A\$1.69	c/sh	Asset:		
Commodity price	CY20E	CY21E	CY22E	CY23E	CY24E	Resource/Inventory	Mt	Ni %		Mt	Ni %
Ni price (US\$/t)	17,637	17,637	17,637	17,637	17,637	,		0 JORC		SCP inv	
Ni price (US\$/t, payable)	13,228	13,228	13,228	13,228	13,228	M&I	11.5	1.29%		29.6	0.78%
1xNAV project valuation*		A\$m	o/ship	NAVx	A\$/sh	Inferred	36.4	1.01%		23.0	0.70%
Jaguar NPV (build start)		730	100%	0.50x	1.03	Total	48.0	1.08%	Total	29.6	0.8%
Regional exploration @ 10	0%	36.5	100%	1.0x	0.10	Funding: uses			_	sources	
Cash 4Q20		24.1	100%	1.0x	0.07	Capex (A\$m)	231		Cash 4Q		24.1
Cash from ITM options		4.6	100%	1.0x	0.01	Drilling/FS cost (A\$m)	14.9			bt (A\$m)	149.9
1XNAV A\$ @ 1Q21		A\$796m	1		1.21	Working cap >DFS (A\$m)		5CPe 0.6	NAV equi		115.3
*Build start, ex fin. cost + G&A	A, dil. for on		j	AV todav:		G&A and fin. cost (A\$m)	30.2		tal sourc		289.3
Asset value: 1xNPV projec					0.0	Total uses: group (A\$m)	290.3	-	ling / buff		-1.0
	6.00/lb	7.00/lb	8.00/lb	9.00/lb	10.00/lb	Share data (m)	Basic	FD	3Q22 (FI		
Group NAV (A\$m)	13,228	15,432	17,637	19,842	22,046	Shares (m)	329.5	354.9	440.7		
9.0% discount	225	464	702	938	1,174	Ratio analysis	CY20E		CY22E	CY23E	CY24E
7.0% discount	273	534	796	1,055	1,313	Shares out (m)	325.9	329.5	440.7	440.7	440.7
5.0% discount	328	616	904	1,189	1,474	EPS (Ac/sh)	_	-	-	-	-
Ungeared project IRR:	21%	33%	45%	55%	64%	CFPS before w/c (A\$/sh)	_	_	_	_	_
Group NAV (A\$/sh)	13,228	15,432	17,637	19,842	22,046	EV (A\$m)	205.6	221.6	312.1	273.8	460.9
9.0% discount	0.63	1.31	1.98	2.64	3.31	FCF yield (%)	-		-	5.0	-
7.0% discount	0.03	1.51	2.24	2.97	3.70	PER (x)		_	_	_	_
5.0% discount	0.92	1.74	2.55	3.35	4.15	P/CF (x)	_	_	_	_	_
*Project level NPV, excl finance						EV/EBITDA (x)	_	_	_	_	167.3x
SOTP company valuation		2Q22	2 Q23	2Q24	2Q25	Income statement	CY20E	CY21E	CY22E	CY23E	CY24E
	·	679		914	•			CIZIE	C122E	CTZSE	42.0
Jaguar NPV	634 (50)		730		1,107	Revenue (A\$m)	0.5	-	-	_	42.0 37.9
Centra G&A & fin. costs	(58)	(48)	(38)	(30)	(20)	COGS (A\$m)			-		
Net cash prior quarter	20.5	7.4	(4.2)	(15)	(150)	Gross profit (A\$m)	0.5	-	-	-	4.2
Cash from ITM options	4.6	4.6	4.6	4.6	4.6	G&A (A\$m)	2.9	7.4	9.2	11.1	1.0
NAV (A\$m)	601	643	693	873	942	Exploration (A\$m)	7.3	6.0	3.0	-	-
FD share count (m)	355	355	441	441	441	Finance costs (A\$m)	0.1	-	-	-	10.5
1xNAV7%/sh FF FD (A\$/sh	1.69	1.81	1.57	1.98	2.14	Tax (A\$m)	-	-	-	-	-
ROI (% pa)		157%	49%	41%	32%	Other (A\$m)	3.6	1.2	1.5	0.8	2.3
Exit value: 1xNAV/sh com	pany @ 2	2024 first	productio	on (A\$, ge	ared)^	Net income (A\$m) Cash flow statement	(13.3) CY20E	(14.6) CY21E	(13.7) CY22E	(11.9) CY23E	(9.6) CY24E
1xNAV (A\$/sh)	13,228	15,432	17,637	19,842	22,046	EBITDA (A\$m)	(11.5)	(15.0)	(13.8)	(12.7)	2.8
9.0% discount	0.52	1.21	1.94	2.67	3.40	Add share based (A\$m)	0.5	1.6	1.6	1.6	0.4
7.0% discount	0.52	1.37	2.14	2.07	3.69	Net change wkg cap (A\$m		-	-	1.7	14.5
5.0% discount	0.02	1.54	2.14	3.19	4.02	Cash flow ops (A\$m)	(5.3)	(13.0)	(12.1)	(12.0)	(21.0)
Exit value: 1xNAV/sh com								(13.0)	(12.1)		
						PP&E - build + sust. (A\$m	(1.2)	-	-	65.0	166.1
1xNAV (A\$/sh)	13,228	15,432	17,637	19,842	22,046	PP&E - expl'n (A\$m)	-		-	- (CE 0)	- (400 4)
9.0% discount	0.43	0.95	1.46	1.98	2.49	Cash flow inv. (A\$m)	1.2	-	-	(65.0)	(166.1)
7.0% discount	0.49	1.03	1.58	2.13	2.67	Share issue (A\$m)	24.8	-	-	115.3	-
5.0% discount	0.55	1.13	1.72	2.30	2.88	Debt draw (repay) (A\$m)		-	-	-	149.9
Production (Y1 from 3Q20		CY25	CY26	CY27	CY28	Cash flow fin. (A\$m)	24.8	- (42.1)	- (42.4)	115.3	149.9
Jaguar production (000kt		13.5	23.9	22.0	22.9	Net change in cash (A\$m)		(13.4)	(12.1)	38.3	(37.2)
C1 cost (US\$/t Ni)	11,044	9,675	5,544	5,360	4,945	Balance sheet	CY20E		CY22E	CY23E	CY24E
AISC cost (US\$/t Ni)	11,762	10,386	6,382	6,571	6,009	Cash (A\$m)	24.1	10.7	(1.4)	36.9	(0.3)
AISC = C1 + sustaining cape	x + centra	I G&A, C3 :	= AISC + de	epreciation)	Acc rec. + invet. (A\$m)	0.2	0.2	0.2	0.0	27.0
30kt					12,000	PP&E & expl'n (A\$m)	9.5	9.9	9.9	74.9	238.3
25kt					10,000	Total assets (A\$m)	33.9	20.8	8.7	111.8	264.9
20kt					8,000	Debt (A\$m)	-	-	-	-	149.9
			<u> </u>			Accounts payable (A\$m)	1.9	1.9	1.9	-	12.4
15kt					6,000	Others (A\$m)	24.3	10.9	(1.2)	36.9	26.7
10kt					4,000	Total liabilities (A\$m)	7.7	7.7	7.7	5.8	168.2
5kt					2,000	Shareholders' equity (A\$m	155.9	157.5	159.1	276.0	276.4
Okt					-	Reserves (A\$m)	(8.3)	(8.3)	(8.3)	(8.3)	(8.3)
CY24 CY25 Jaguar prod'n (1			Y27 ○ AISC (CY28	/t Ni)	Retained earnings (A\$m)	(121.5)	(136.1)	(149.8)	(161.7)	(171.3)
	, 000l	. •1.)	- AISC (, 033,	, . 141)	Liabilities + equity (A\$m)	33.9	20.8	8.7	111.8	264.9
Source: SCP estimates											



Equity Research

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TOTAL	41

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