Sprott Eq	uity Research
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31	May 2021
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Ticker: CTM AU	4Q20 Cash: A\$24m	Project: Jaguar
Mkt cap : A\$232m	Price: A\$0.71/sh	Country: Brazil
RECOMMEND (unc): BUY	TARGET (unc): A\$1.20/sh	RISK 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 CO_2 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).

	СТМ		SCP			СТМ		
Conc	ΡΟΧ	Δ (%)	Conc.	Jaguar (100%)	Conc	POX	Δ (%)	
29.6	36.6	24%	29.6	Pit mining cost (US\$/t ROM)	2.57	2.60	1.2%	
6.0	6.5	9.0%	6.0	UG mining cost (US\$/t ROM)	50.5	47.5	-6.0%	
0.78%	0.76%	-3%	0.78%	Processing cost (US\$/t ROM)+	11.3	28.0	69%	
3.2	8.5	165.6%	3.2	By-product credit (US\$/t ROM)	-	-8.8	-	
1.36%	1.01%	-26%	1.36%	G&A cost (US\$/t ROM)	2.13	1.98	-7.0%	
260.3	341.0	31%	260	C1 cost (US\$/Ib, LOM average)	2.41	3.29	-23%^	
2,700	>>	0.0%	2,700	AISC (US\$/Ib, LOM average)	2.97	3.94	-19%^	
78%	>>	0.0%	78%	Initial capex (US\$m)	178	288	62%	
20.3	>>	0.0%	18.4	LOM sustaining capex (US\$m)	138	213	54%	
10.0	13.0	30%	11.0	AUD / USD	0.75	>>	0.0%	
16,530	17,362	5.0%	17,637	Discount rate (%)	8.0%	>>	0.0%	
75%	100%	33%	75.0%	Project NPV (A\$m)	604	831	38%	
131	-	-	131	Asset IRR (%)	54%	52%	-3.7%	
	29.6 6.0 0.78% 3.2 1.36% 260.3 2,700 78% 20.3 10.0 16,530 75%	Conc POX 29.6 36.6 6.0 6.5 0.78% 0.76% 3.2 8.5 1.36% 1.01% 260.3 341.0 2,700 >> 78% >> 20.3 >> 10.0 13.0 16,530 17,362 75% 100%	Conc POX Δ (%) 29.6 36.6 24% 6.0 6.5 9.0% 0.78% 0.76% -3% 3.2 8.5 165.6% 1.36% 1.01% -26% 260.3 341.0 31% 2,700 >> 0.0% 78% >> 0.0% 10.0 13.0 30% 16,530 17,362 5.0% 75% 100% 33%	Conc POX Δ (%) Conc. 29.6 36.6 24% 29.6 6.0 6.5 9.0% 6.0 0.78% 0.76% -3% 0.78% 3.2 8.5 165.6% 3.2 1.36% 1.01% -26% 1.36% 260.3 341.0 31% 260 2,700 >> 0.0% 2,700 78% >> 0.0% 78% 20.3 >> 0.0% 18.4 10.0 13.0 30% 11.0 16,530 17,362 5.0% 17,637 75% 100% 33% 75.0%	Conc POX Δ (%) Conc. Jaguar (100%) 29.6 36.6 24% 29.6 Pit mining cost (US\$/t ROM) 6.0 6.5 9.0% 6.0 UG mining cost (US\$/t ROM) 0.78% 0.76% -3% 0.78% Processing cost (US\$/t ROM)+ 3.2 8.5 165.6% 3.2 By-product credit (US\$/t ROM) 1.36% 1.01% -26% 1.36% G&A cost (US\$/t ROM) 260.3 341.0 31% 260 C1 cost (US\$/tb, LOM average) 2,700 >> 0.0% 2,700 AISC (US\$/lb, LOM average) 78% >> 0.0% 78% LOM sustaining capex (US\$m) 10.0 13.0 30% 11.0 AUD / USD 16,530 17,362 5.0% 17,637 Discount rate (%) 75% 100% 33% 75.0% Project NPV (A\$m)	Conc POX Δ (%) Conc. Jaguar (100%) Conc 29.6 36.6 24% 29.6 Pit mining cost (US\$/t ROM) 2.57 6.0 6.5 9.0% 6.0 UG mining cost (US\$/t ROM) 50.5 0.78% 0.76% -3% 0.78% Processing cost (US\$/t ROM)+ 11.3 3.2 8.5 165.6% 3.2 By-product credit (US\$/t ROM) - 1.36% 1.01% -26% 1.36% G&A cost (US\$/t ROM) 2.13 260.3 341.0 31% 260 C1 cost (US\$/lb, LOM average) 2.97 78% >> 0.0% 2,700 AISC (US\$/lb, LOM average) 2.97 78% >> 0.0% 78% Initial capex (US\$m) 178 10.0 13.0 30% 11.0 AUD / USD 0.75 0.75 16,530 17,362 5.0% 17,637 Discount rate (%) 8.0%	Conc POX Δ (%) Conc. Jaguar (100%) Conc POX 29.6 36.6 24% 29.6 Pit mining cost (US\$/t ROM) 2.57 2.60 6.0 6.5 9.0% 6.0 UG mining cost (US\$/t ROM) 50.5 47.5 0.78% 0.76% -3% 0.78% Processing cost (US\$/t ROM)+ 11.3 28.0 3.2 8.5 165.6% 3.2 By-product credit (US\$/t ROM)+ 1.33 28.0 1.36% 1.01% -26% 1.36% G&A cost (US\$/t ROM) - -8.8 260.3 341.0 31% 260 C1 cost (US\$/tB,LOM average) 2.41 3.29 2,700 >> 0.0% 2,700 AISC (US\$/lb,LOM average) 2.97 3.94 78% >> 0.0% 78% Initial capex (US\$m) 178 288 20.3 >> 0.0% 11.0 AUD / USD 0.75 >> 16,530 17,362 5.0% 17,637 Discount rate (%)	Conc POX Δ (%) Conc. Jaguar (100%) Conc POX Δ (%) 29.6 36.6 24% 29.6 Pit mining cost (US\$/t ROM) 2.57 2.60 1.2% 6.0 6.5 9.0% 6.0 UG mining cost (US\$/t ROM) 50.5 47.5 -6.0% 0.78% 0.76% -3% 0.78% Processing cost (US\$/t ROM)+ 11.3 28.0 69% 3.2 8.5 165.6% 3.2 By-product credit (US\$/t ROM) - -8.8 - 1.36% 1.01% -26% 1.36% G&A cost (US\$/t ROM) 2.13 1.98 -7.0% 260.3 341.0 31% 260 C1 cost (US\$/tb, LOM average) 2.41 3.29 -23%^ 2,700 >> 0.0% 2,700 AISC (US\$/lb, LOM average) 2.97 3.94 -19%^ 78% >> 0.0% 78% LOM sustaining capex (US\$m) 138 213 54% 10.0 13.0 30% 11.0

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

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.





Source: Centaurus

Why we like Centaurus Metals

- 1. 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
- 5. 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 Author: B Salier, B Gaspar	Price / m		A71c/sh	/ A\$232 ######	m		0.31x A\$1.69	c/sh	Country: Asset:		
Aution: D Sallel, D Gaspai	Rec/0.0x		г вот,	*****		1xNAV7%4 _{Q21} FF FD:	A # 1.05	0/511	Asseli	Jaguai	
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) 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%			
Jaguar NPV (build start)	0.01	730	100%	0.50x	1.03	Total	48.0	1.08%	Total	29.6	0.8%
Regional exploration @ 1	0%	36.5	100%	1.0x	0.10	Funding: uses	224			sources	
Cash 4Q20		24.1	100%	1.0x	0.07	Capex (A\$m)	231		Cash 4Q2		
Cash from ITM options		4.6 A\$796m	100%	1.0x	0.01	Drilling/FS cost (A\$m)	14.9		SCPe de		
1XNAV A\$ @ 1Q21 *Build start, ex fin. cost + G&A	1 dil for or		1	AV today:		Working cap >DFS (A\$m) G&A and fin. cost (A\$m)	30.2		NAV equi		
Asset value: 1xNPV projec				,	0.5 1X	Total uses: group (A\$m)	290.3	-	ling / buff	,	- 1.0
Asset value. Trive v projec	6.00/lb	7.00/lb	8.00/lb	9.00/lb	10.00/lb	Share data (m)	Basic	FD	3Q22 (FI		- 1.0
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	CY24
7.0% discount	273	534	796	1,055	1,313	Shares out (m)	325.9	329.5	440.7	440.7	440.
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.
9.0% discount	0.63	1.31	1.98	2.64	3.31	FCF vield (%)	-	-	-	-	
7.0% discount	0.77	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 finan						EV/EBITDA (x)	_	-	-	-	167.
SOTP company valuation		2Q22	2Q23	2Q24	2Q25	Income statement	CY20E	CY21E	CY22E	CY23E	CY24
Jaguar NPV	634	679	730	914	1,107	Revenue (A\$m)	0.5	-	-	-	42.0
Centra G&A & fin. costs	(58)	(48)	(38)	(30)	(20)	COGS (A\$m)	-	-	-	-	37.9
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		۲. j	۳
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 @ 3	2024 first	productio	on (A\$, ge	ared)^	Net income (A\$m)	(13.3)	(14.6)	(13.7)	(11.9)	(9.6
				<u> </u>		Cash flow statement	CY20E	CY21E	CY22E	CY23E	CY24
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	0.62	1.37	2.14	2.91	3.69	Net change wkg cap (A\$m	(1.6)	-	-	1.7	14.5
5.0% discount	0.74	1.54	2.36	3.19	4.02	Cash flow ops (A\$m)	(5.3)	(13.0)	(12.1)	(12.0)	(21.0
Exit value: 1xNAV/sh com	pany @ :	2024 first	productio	on (A\$, ge	ared)^	PP&E - build + sust. (A\$m	(1.2)	-	-	65.0	166.
1xNAV (A\$/sh)	13,228	15,432	17,637	19,842	22,046	PP&E - expl'n (A\$m)	-	-	-	-	-
9.0% discount	0.43	0.95	1.46	1.98	2.49	Cash flow inv. (A\$m)	1.2	-	-	(65.0)	(166.
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	CY24	CY25	CY26	CY27	CY28	Cash flow fin. (A\$m)	24.8	-	-	115.3	149.
Jaguar production (000kt	2.4	13.5	23.9	22.0	22.9	Net change in cash (A\$m)	19.5	(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	CY21E	CY22E	CY23E	CY24
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	preciation	ו	Acc rec. + invet. (A\$m)	0.2	0.2	0.2	0.0	27.0
201/+					12 000	PP&E & expl'n (A\$m)	9.5	9.9	9.9	74.9	238.
30kt					12,000	Total assets (A\$m)	33.9	20.8	8.7	111.8	264.
25kt					10,000	Debt (A\$m)	-	-	-	-	149.
20kt					8,000	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.
5kt					2,000	Shareholders' equity (A\$m	155.9	157.5	159.1	276.0	276.
Okt	, I				-	Reserves (A\$m)	(8.3)	(8.3)	(8.3)	(8.3)	(8.3
CY24 CY2				CY28		Retained earnings (A\$m)				(161.7)	(171
💻 Jaguar prod'n (🔶 AISC (

Source: SCP estimates



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1	SCP and its affiliates collectively beneficially owns 1% or more of any class of the issuer's equity securities ¹	YES
2	The analyst or any associate of the analyst responsible for the report or recommendation or any individual directly involved in the preparation of the report holds or is short any of the issuer's securities directly or through derivatives	NO
3	An SCP partner, director, officer or analyst involved in the preparation of a report on the issuer, has during the preceding 12 months provided services to the issuer for remuneration other than normal course investment advisory or trading execution services	NO
4	SCP has provided investment banking services for the issuer during the 12 months preceding the date of issuance of the research report or recommendation	YES
5	Name of any director, officer, employee or agent of SCP who is an officer, director or employee of the issuer, or who serves in an advisory capacity to the issuer	NO
6	SCP is making a market in an equity or equity related security of the issuer	NO
7	The analyst preparing this report received compensation based upon SCP's investment banking revenue for the issuer	NO
8	The analyst has conducted a site visit and has viewed a major facility or operation of the issuer	NO
9	The analyst has been reimbursed for travel expenses for a site visit by the issuer	NO

Sprott Capital Partners Equity Research Ratings:

Summary of recommendations as of May 2021			
BUY:	41		
HOLD:	0		
SELL:	0		
UNDER REVIEW:	0		
TENDER:	0		
NOT RATED:	0		
TOTAL	41		

¹ As at the end of the month immediately preceding the date of issuance of the research report or the end of the second most recent month if the issue date is less than 10 calendar days after the end of the most recent month

