

# **SPEC BUY**

Current Price	\$0.82
Target Price	\$1.27

Code: стм Materials Sector: \* All figures in AUD unless stated otherwise Shares on Issue (M): 326 - fully diluted (M) 387 Market Cap (\$M): 267 - fully diluted (\$M) 318 Cash (31 Dec 21) A\$24m Debt (31 Dec 21) A\$0m Net cash (\$M): 24 Enterprise value (\$M): 243 52 wk High/Low (ps): \$0.07 \$0.89 12m av. daily vol. (Mshs): 0 Key Metrics: (Scenario 1) FY25e FY26e FY27e P/E(x)10.1 3.0 2.6 EV/EBITDA (x) 2.2 1.1 1.2 Financials: (Scenario 1) FY25e FY26e FY27e Revenue (\$M) 192 384 384 EBIT (SM) 56 143 157 NPAT (A\$M) 34 115 133 Net assets (\$M) 140 146 106 Op CF (\$M) 13 30 16 Per share data: Scenario 1 EPS (c) 8.1 27.6 31.9 Dividend (cps) 0.0 0.0 0.0 Yield (%) CF/Share (cps) 3.6 9.1 5.0 Prod (kt Ni) 7,975 15,950 15,950

### Share Price Graph and trading volumes (msh)



Please refer to important disclosures at end of the report (from page 12)

# Monday, 8 February 2021

# **Centaurus Metals (CTM)**

# **Quality Improvement to Resources**

EQUITY RESEARCH

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www.argonaut.com PERTH +61 8 9224 6888 HONG KONG +852 3557 4888

Analyst: George Ross

# **Quick Read**

Centaurus Metals (CTM) has released (CTM 04/02/2021) an updated Mineral Resource Estimate (MRE) for the Company's flagship Jaguar nickel sulphide project located in Brazil. Guidance has also been provided for exploration during the coming year. We have upgraded our project valuation models based new resource modelling and revision of operational assumptions. Our new share price target of \$1.27 is based on simple average of two development scenarios.

# Main Points

### **Indicated Category Improvement:**

The latest Jaguar resource estimate is reported as 58.5 Mt at 0.95% Ni for 557,800 tonnes of contained nickel metal. Near surface material is reported at 0.3% Ni cut-off grade as compared with the previous 0.5%. This change has resulted in global tonnage gains of 10.5Mt with a 0.13% reduction in Ni grade. CTM's latest MRE update greatly improved on Indicated classified tonnages from 11.5Mt in the previous estimate to 19.9Mt. Indicated classified material are expected to underpin scoping studies for two development scenarios due in March.

# Plenty of drill metres to come:

Four diamond drill rigs are currently testing a variety of strike and depth extensions at existing deposits. An RC rig will test regional targets and is expected on-site within the next month.

### Scoping studies due in March:

CTM has confirmed that two Scoping studies will be released in March. The first study will evaluate development of Jaguar as a conventional flotation operation (Scenario 1). The second study will consider development with an integrated 'value-add' circuit for production of a high purity nickel metal product (Scenario 2).

### **Revised valuations:**

We have revisited our project valuations based on the latest resource update and revised input assumptions. Our raw NPV9 valuations for Jaguar development Scenarios 1 & 2 are \$A458M and A\$936M respectively. We apply project maturity and technical viability risk factors to discount these valuations to A\$298M and A\$421M.

# Recommendation

Argonaut has increased CTM's price target to \$1.27ps based on the simple average of two company valuations incorporating alternate development scenarios. A SPEC BUY recommendation is maintained.

Equities Research Analyst: George Ross

Metals & Mining

### **Centaurus Metals**

# Scenario 1 - Standard Flotation Dev.

Recommendation	Speculative Buy
Current Price	\$0.82
Valuation	\$1.00

Profit & loss (A\$M) 30 June	2021E	2022E	2023E	2024E
Sales Revenue	0	0	0	0
+ Other income/forwards	0	0	0	0
<ul> <li>Operating costs</li> </ul>	0	0	0	-1
- Royalties	0	0	0	0
- Corporate & administration	-2	-2	-2	-4
Total Costs	-2	-2	-2	-5
EBITDA	-2	-2	-2	-5
- margin	0%	0%	0%	0%
- D&A	0	0	0	0
EBIT	-2	-2	-2	-5
+ Finance Income/Expense	0	0	0	-3
PBT	-2	-2	-2	-8
- Tax expense	0	0	0	1
- Impairments and other	0	0	0	0
NPAT	-2	-2	-2	-7

Cash flow (A\$M)	2021E	2022E	2023E	2024E
+ Revenue	0	0	0	0
- Cash costs	-2	-2	-2	-6
-Tax payments	0	0	0	1
+ Interest & other	0	0	0	-3
Operating activities	-2	-2	-2	-8
- Property, plant, mine devel.	0	0	0	-102
- Exploration	-6	-8	-2	-2
- Feasibility Studies	-6	-12	-12	0
Investment activities	-12	-20	-14	-104
+ Borrowings	0	0	0	120
- Dividends	0	0	0	0
+ Equity	5	24	0	4
Financing activities	5	24	0	124
Cash change	-8	2	-16	11

Balance sheet (A\$M)	2021E	2022E	2023E	2024E
Cash	18	21	44	55
Other Current Assets	0	0	0	0
Total current assets	18	21	44	55
Property, plant & equip.	0	0	0	102
Investments/other	0	0	0	0
Total non-curr. assets	0	0	0	102
Total assets	18	21	44	158
Trade payables	1	1	1	29
Short term borrowings	0	0	0	83
Other	1	1	1	25
Total curr. liabilities	3	3	1	54
Long term borrowings	0	0	0	83
Other	0	0	0	0
Total non-curr. liabil.	0	0	0	83
Total liabilities	3	3	1	137
Net assets	16	18	43	21

Mt	Ni %	Cu %	Co ppm
18.7	0.97	0.05	206
10.2	1.00	0.06	268
3.3	1.09	0.18	350
5.8	0.80	0.05	210
8.3	0.78	0.09	253
5.7	0.80	0.04	150
3.3	1.58	0.09	558
3.2	0.88	0.06	251
58.5	0.95	0.07	249
	18.7 10.2 3.3 5.8 8.3 5.7 3.3 3.2	$\begin{array}{cccc} 18.7 & 0.97 \\ 10.2 & 1.00 \\ 3.3 & 1.09 \\ 5.8 & 0.80 \\ 8.3 & 0.78 \\ 5.7 & 0.80 \\ 3.3 & 1.58 \\ 3.2 & 0.88 \end{array}$	18.7         0.97         0.05           10.2         1.00         0.06           3.3         1.09         0.18           5.8         0.80         0.05           8.3         0.78         0.09           5.7         0.80         0.04           3.3         1.58         0.09           3.2         0.88         0.06

	lssued Capital (N Market Cap (M)	lshs)	Monday, 8 Febr	326 \$267 uary 2021
Financial ratios	2025E	2026E	2027E	2028E
GCFPS Diluted (A¢)	4	9	5	40
CFR (X)	22.5	9.0	16.3	2.1
EPS Diluted (A¢)	8	28	32	55
PER (X)	10.1	3.0	2.6	1.5
DPS (\$)	0%	0%	0%	0%
Yield (%)	0%	0%	0%	0%
Interest cover (X)	4	18	0	0
ROCE (%)	28%	98%	148%	159%
ROE (%)	28%	92%	148%	159%
Avg Gearing (%)	150%	92%	0%	0%

Sector

Operations summary	2025E	2026E	2027E	2028E
Jaguar				
Ore processed (Mt)	1.3	2.5	2.5	2.5
Ni Head grade (%)	1.1	1.1	1.1	1.4
Met. Recovery (%)	80	80	80	82
Share of Ni in Final Product (t)	11000	22000	22000	28535
Share of Payable Ni (t)	7975	15950	15950	20688
Cost per milled tonne (US\$/t)	61	63	66	64
Sustaining capital (\$M)	0.0	0.0	0.0	0.0
AISC (US\$/lb)	3.5	3.7	3.8	3.0
Growth capital (\$M)	103.0	1.4	0.9	42.0

Price assumptions	2025E	2026E	2027E	2028E
AUDUSD	0.72	0.72	0.72	0.72
Nickel (US\$/t)	16500	16500	16500	16500
Nickel (A\$/t)	22917	22917	22917	22917

Jaguar Project Valuation	A\$M	A\$/sh
Jaguar Project NPV9	458.3	1.41
Risk Discount (Scoping Study Maturity 35%)	35%	-0.49
Jaguar Project NPV9 (Risk Discounted 35%)	298	0.91

Company Valuation summary	A\$M	A\$/sh
Jaguar Project NPV9 (Risk Discounted 35%)	298	0.91
Jambreiro Project	10	0.03
Exploration, all sites	70	0.22
Corporate overheads	-18	-0.06
Cash and bullion	24	0.07
Debt	0	0.00
Tax benefit	0	0.00
Hedging	0	0.00
Option/equity dilution	-57	-0.17
Total	327	1.00

Directors, management				
Didier Murcia				Chairman
Darren Gordon			Managing Dire	ector / CEO
Bruno Scarpelli			Executiv	e Director
Mark Hancock	Non-Executive Director			
Chris Banasik	Non-Executive Director			
Roger Fitzhardinge			Operation	n Manager
John Westdorp			Chief Finan	cial Officer
Shares	2025E	2026E	2027E	2029E
New shs issued/exerciseable	0	0	0	0
Average issue price	0.00	0.00	0.00	0.00

417

417

417

417

417

417

417

427

Ordinary shares - end

Diluted shares - end

### **Centaurus Metals**

# Scenario 2 - Flotation-POX Development

Recommendation	Speculative Buy
Current Price	\$0.82
Valuation	\$1.54

Profit & loss (A\$M) 30 June	2021E	2022E	2023E	2024E
Sales Revenue	0	0	0	0
+ Other income/forwards	0	0	0	0
- Operating costs	0	0	0	-1
- Royalties	0	0	0	0
<ul> <li>Corporate &amp; administration</li> </ul>	-2	-2	-2	-4
Total Costs	-2	-2	-2	-5
EBITDA	-2	-2	-2	-5
- margin	0%	0%	0%	0%
- D&A	0	0	0	0
EBIT	-2	-2	-2	-5
+ Finance Income/Expense	0	0	0	-5
PBT	-2	-2	-2	-10
- Tax expense	0	0	0	2
- Impairments and other	0	0	0	0
NPAT	-2	-2	-2	-9

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Cash flow (A\$M)	2021E	2022E	2023E	2024E
+ Revenue	0	0	0	0
- Cash costs	-2	-2	-2	-6
-Tax payments	0	0	0	1
+ Interest & other	0	0	0	-5
Operating activities	-2	-2	-2	-10
- Property, plant, mine devel.	0	0	0	-200
- Exploration	-6	-8	-2	-2
- Feasibility Studies	-6	-18	-12	0
Investment activities	-12	-26	-14	-202
+ Borrowings	0	0	0	200
- Dividends	0	0	0	0
+ Equity	5	24	0	26
Financing activities	5	24	0	226
Cash change	-8	-4	-16	15

Balance sheet (A\$M)	2021E	2022E	2023E	2024E
Cash	18	15	44	59
Other Current Assets	0	0	0	0
Total current assets	18	15	44	59
Property, plant & equip.	0	0	0	200
Investments/other	0	0	0	0
Total non-curr. assets	0	0	0	200
Total assets	18	15	44	259
Trade payables	1	1	1	43
Short term borrowings	0	0	0	139
Other	1	1	1	59
Total curr. liabilities	3	3	1	102
Long term borrowings	0	0	0	139
Other	0	0	0	0
Total non-curr. liabil.	0	0	0	139
Total liabilities	3	3	1	241
Net assets	16	12	43	18

Resources Feb 2021	Mt	Ni %	Cu %	Co ppm
Jaguar South (II)	18.7	0.97	0.05	206
Jaguar Central (II)	10.2	1.00	0.06	268
Jaguar North (II)	3.3	1.09	0.18	350
Jaguar Central North (I)	5.8	0.80	0.05	210
Jaguar North East (I)	8.3	0.78	0.09	253
Jaguar West (I)	5.7	0.80	0.04	150
Onca Preta (II)	3.3	1.58	0.09	558
Onca Rosa (I)	3.2	0.88	0.06	251
Total (II)	58.5	0.95	0.07	249



Equities Research Analyst: George Ross

Metals & Mining

	Issued Capital (Mshs) Market Cap (M) \$ Monday, 8 February 2			
Financial ratios	2025E	2026E	2027E	2028E
GCFPS Diluted (AC)	24	56	52	86
CFR (X)	3.4	1.5	1.6	0.9
EPS Diluted (AC)	18	50	58	82
PER (X)	4.5	1.7	1.4	1.0
DPS (\$)	0%	0%	0%	0%
Yield (%)	0%	0%	0%	0%
Interest cover (X)	5	18	82	156
ROCE (%)	28%	57%	54%	58%
ROE (%)	41%	61%	60%	62%
Avg Gearing (%)	150%	82%	16%	9%

Sector

Operations summary	2025E	2026E	2027E	2028E
Jaguar				
Ore processed (Mt)	1.3	2.5	2.5	2.5
Ni Head grade (%)	1.1	1.1	1.1	1.4
Met. Recovery (%)	86	86	86	82
Share of Ni in Final Product (t)	11825	23650	23650	29030
Share of Payable Ni (t)	11707	23414	23414	28740
Cost per milled tonne (US\$/t)	62	63	67	65
Sustaining capital (\$M)	0	0	0	0
AISC (US\$/lb)	3.5	3.6	3.8	3.1
Growth capital (\$M)	149	2	1	42

Price assumptions	2025E	2026E	2027E	2028E
AUDUSD	0.72	0.72	0.72	0.72
Nickel (US\$/t)	16500	16500	16500	16500
Nickel (A\$/t)	22917	22917	22917	22917

Jaguar Project Valuation	A\$M	A\$/sh
Jaguar Project (NPV9)	935.9	2.87
Risk Discount (Scoping Study Maturity 35% + Technical 20%)	55%	-1.58
Jaguar Project (Risk Discounted)	421	1.29
Company Valuation summary	A\$M	A\$/sh
Jaguar Project (Risk Discounted)	421	1.29
Jambreiro Project	10	0.03

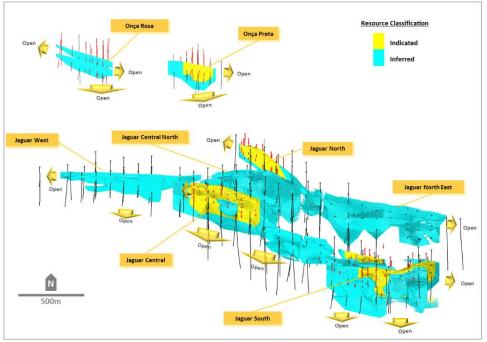
Jambreiro Project	10	0.03
Exploration, all sites	142	0.44
Corporate overheads	-18	-0.06
Cash and bullion	24	0.07
Debt	0	0.00
Tax benefit	0	0.00
Hedging	0	0.00
Option/equity dilution	-78	-0.24
Total	501	1.54

Directors, management				
Didier Murcia				Chairman
Darren Gordon			Managing Dire	ector / CEO
Bruno Scarpelli			Executi	ive Director
Mark Hancock	Non-Executive Director			ive Director
Chris Banasik		Non-Executive Director		
Roger Fitzhardinge		Operation Manager		
John Westdorp			Chief Finan	cial Officer
Shares	2025E	2026E	2027E	2029E
New shs issued/exerciseable	0	0	0	0
Average issue price	0.00	0.00	0.00	0.00
Ordinary shares - end	437	437	437	437
Diluted shares - end	437	437	437	447

# **Resource Quality Improvement**

CTM's latest Mineral Resource Estimate (MRE) has focused on classification improvement rather than additional tonnes and grade. Indicated classified resources were improved at key deposits: Jaguar South, Jaguar Central, Jaguar North and Onca Preta. We expect deposits with Indicated resources to underpin upcoming Scoping Studies scheduled for early and late March.

Figure 1: Jaguar Project MRE Indicated and Inferred classified Mineral Resources published 04/02/2021. Isometric view towards the North.



Source: CTM 04/02/2021

The new Jaguar Project Global MRE is reported as 58.5 Mt at 0.95% Ni for 557,800 tonnes of contained nickel metal. The updated global MRE CTM is reported at a 0.3% cut-off grade for shallow material (<200m depth from surface), down from 0.5%. The cut-off grade for material below 200m remained static at 1.0% Ni.

Table 1: New Jaguar Project Global MRE with changes to nickel ore tonnage, grade and
contained metal compared with the June 2020 MRE release.

Deposit	Tonnage (Mt)	Ni (%)	Contained	Ni (t)
Jaguar South (II)	18.7 🏫 3.2	0.97 🖖 -0.13	181,300 🤺	10,600
Jaguar Central (II)	10.2 🛧 2.8	1.00 🖖 -0.13	102,400 👘	19,000
Jaguar North (II)	3.3 🛧 0.5	1.09 🖖 -0.05	35,900 📌	3,600
Jaguar Central North(I)	5.8 👚 0.7	0.80 🎍 -0.05	46,700 📌	3,600
Jaguar North East (I)	8.3 🛧 1.3	0.78 🎍 -0.07	64,900 📌	5,400
Jaguar West (I)	5.7 🛧 1.2	0.80 🧄 -0.10	45,200 📌	4,200
Onca Preta (II)	3.3 🎍 -0.3	1.58 🎍 -0.01	53,000 🤟	-3,600
Onca Rosa (I)	3.2 👚 1.1	0.88 🎍 -0.61	28,500	-2,400
Total Global MRE	58.5 🛖 10.5	0.95 🎍 -0.13	557,800 📌	40,300

Source: Argonaut

Lowering of cut-off grade results in increased tonnages at expense of grade

High grade resource remains

relatively static

and contained metal compared with the June 2020 MRE release.						
Deposit	Tonnage (Mt)	Ni (%)	Ni (%)		Contained Ni (t)	
Jaguar South (II)	6.5 🖖 -0.5	1.59 🛖	0.01	103,900 🤟	-7,000	
Jaguar Central (II)	4.1 👘 0.0	1.52 👘	0.08	61,800 👘	2,400	
Jaguar North (II)	1.7 👚 0.2	1.44 🖖	-0.06	24,000 🧌	1,900	
Jaguar Central North(I)	1.3 🌵 - 0.1	1.18 🛖	0.00	15,800 🌵	-100	
Jaguar North East (I)	1.3 👚 0.0	1.47 🛖	0.02	19,500 👚	300	
Jaguar West (I)	1.2 🌪 1.0	1.44 🖖	-0.02	17,300	-600	
Onca Preta (II)	2.8 🌵 - 0.1	1.75 🛉	0.00	48,300 🌵	-3,400	
Onca Rosa (I)	0.8 🔟 -0.3	1.97 🖖	-0.23	16,300 🖖	-7,900	
Total High-Grade MRE	19.7 🌵 - 0.9	1.56 👘	0.00	306,900 🌵	-600	

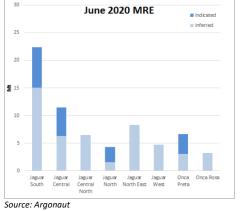
Table 2: New Jaguar Project High-Grade MRE with changes to nickel ore tonnage, grade and contained metal compared with the June 2020 MRE release.

Source: Argonaut

The previously quoted MRE was 48Mt at 1.08% Ni for 517,500 tonnes of nickel metal. From a raw number standpoint this equates to a 22% (10.5 Mt) increase in total tonnage and 7% increase in contained nickel metal on the previously reported Global MRE. Gains to reported tonnage and contained metal were made at the expense of nickel grade, down to 0.95% Ni from 1.08% Ni in the previously reported Global MRE.

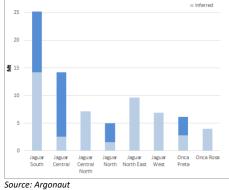
If the previous and current MREs are compared with the same cut-off parameters (0.3% <200m depth from surface, 1.0% >200m depth from surface), total tonnage was increased marginally by 3Mt, grade was reduced by 0.04% Ni and total contained nickel metal was increased by 8,300 tonnes. This matches our previous predictions for incremental tonnage increases and maintenance of grade (Argonaut 02/02/2021). The High-Grade MRE component of the Global MRE remained relatively static across most deposits.

The real progress achieved in this update was growth in resources classified as Indicated. Global Indicated resource tonnage grew from 11.5Mt in June 2020 to 19.9Mt in this release. The largest gains to Indicated tonnages were at Jaguar Central and South (Figure 2). The Onca Preta, Jaguar South, Jaguar Central and Jaguar North deposits now hold 54%, 44%, 82% and 68% Indicated resources respectively.





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February 2021 MRE

Indicated

Indicated resources greatly improved at Jaguar South and Central

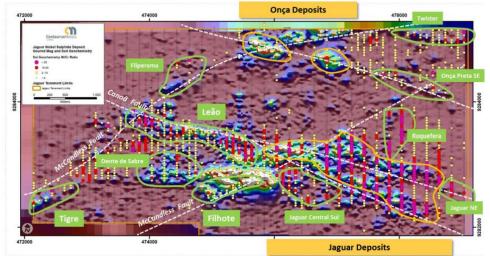


# Plenty of drill metres to come

We don't believe investors should be concerned with apparent stagnation in resource growth. All existing deposits remain open at depth and CTM has flagged drilling in 2021 will target strike and plunge extensions of existing deposits driven by downhole electromagnetic (DHEM) geophysics and structural targets. This activity is being completed by four diamond drill rigs on double shifts.

CTM has also indicated RC drilling will proceed at ten regional targets yet to be systematically tested (Figure 3). These prospects are a mix of historic, geochemical and geological targets within the broader tenure package. Historic drilling at the Filhote prospect intersected weak, yet tantalising palladium (18m @ 0.35g/t Pd) mineralisation. Nickel is often associated with platinum group elements and potential does exist to identify economic grade mineralisation within the greater Jaguar system. An RC rig will be used to test Filhote and other regional targets.

Figure 3: Regional targets at the Jaguar Nickel Project. Plan view with Ni/Cr ratio soils geochemistry over analytical signal ground magnetics).



Source: CTM 04/02/2021

# Scoping studies due in March

CTM has confirmed they will release separate scoping studies for both a 'Base Case' and 'Value-Add Case'.

The release of the Base Case study is scheduled for early March and will scope development of Jaguar as a conventional flotation operation for production of a 16% Ni concentrate from 80% recovery.

The Value-Add Case is scheduled for late March and will evaluate inclusion of a hydrometallurgical circuit for production of nickel metal. Capital and operational costs for this case are expected to be materially higher.

4 diamond and 1 RC rig to provide ongoing news flow and fuel resource expansion

Scoping studies will provide guidance on two development scenarios



As previously reported the benefits of secondary refinement after sulphide concentration include:

- Provide the opportunity to optimise flotation processing for metal recovery over grade
- Higher relative metal payability as compared with a nickel sulphide concentrate which is typically between 70-75% of LME. For a metal product payability is expected to be 100% LME pricing
- Potential for premium pricing driven by tailored, high purity products
- Lower transport costs due to reduced final product volumes
- A higher recovery of sulphides from ore feed will reduce acid forming activity within tailings

# **Revised Project Valuation**

We have retuned out two recently published development scenario valuations (<u>Argonaut</u> <u>02/02/2021</u>) based on assumptions driven by this new release and further research. Our two project development scenarios remain:

ined	Scenario 1:	Open pit operation with flotation concentrator
	Scenario 2:	Open pit operation with flotation concentrator and POX circuit

For this revision, we have included a new pit at Jaguar North in addition to those at the Jaguar Central, Onça Preta and Jaguar South deposits. Predicted mineable ore inventories have been modified to accommodate the latest resource release with slight changes to tonnages and grade. The initial modelled mine life has now been extended beyond eight years with treatment of 23.1Mt of ore. We have slightly tuned our pre-strip, strip ratios and mining costs to reflect changes to pit design. Metal pricing, exchange rate, discount rate and royalty rate have all been maintained.

We have applied a 35% risk discount to both scenario NPV<sub>9</sub> calculations due to the early stage of feasibility maturity. This value will be relaxed over time with graduation to Pre-Feasibility (25%) and Definitive Feasibility (15%) levels of study to reflect reduction in potential error. An additional 20% risk discount has been applied to the valuation of Scenario 2 to reflect our uncertainty regarding the potential cost and viability of a POX and refinement circuit.

If technically and financially feasible, Scenario 2 remains a compelling development scenario with a material increase in total payable nickel metal compared with a conventional development. Scenario 1 is modelled to generate between 16-21kt of payable nickel metal per year compared with 22kt-29kt for Scenario 2. This production gap is driven by both increased nickel recoveries (82% vs 86%) at the sulphide concentrator phase and increased payability for the final product (72.5% vs 99%).

Based on these modifications, our current raw NPV<sub>9</sub> valuation for Scenario 1 (conventional flotation development) is \$A458M with a 35% risk discounted valuation of A\$298M. Our raw value estimate for the Scenario 2 development option (inclusion of POX circuit) is A\$936M and discounted by a factor of 55% to A\$421M.

Improving our valuation based on new resource data and refined assumptions

Both scenarios appear winners at a

9% discount rate

# Table 3: Detailed discounted cash flow model assumptions for development of Jaguar with and without inclusion of POX circuit. All values in US dollars unless specified.

Timing					
Start Construction			024		
Start/End Mining		202	5/2033		
Initial Mine Life	8+ years				
Mining					
Open Pits	Jaguar	Onça	Jaguar	Jaguar	
	Central	Preta	South	North	
Timing	2025-2026	2027	2027-2032	2027-2032	
Ore Inventory	7Mt at 1.1% Ni	1.5Mt at 1.6% Ni	13Mt at 1.1% Ni	1.6 Mt at 1.1% Ni	
Final Pit Depth	200m	120m	200m	120m	
Pre-Strip tonnage	8 Mt	5 Mt	13 Mt	5 Mt	
Strip Ratio (Excl PS)	1:6.1	1:6.0	1:4.0	1:6.2	
Mining Costs	~\$3.3/t	~\$3.4/t	~\$3.5/t	~\$3.5/t	
Distance from Mill	1km	3km	1km	1km	
Processing	Culcht I. C		Culuit to C	alasta subil no	
Scenario	Sulphide Conce	entrator Only	Sulphide Conce Cir	ntrator with PO cuit	
Mill Annual Throughput		2.	.5 Mt		
LOM Throughput	23.1 Mt				
Ni/Cu/Co Conc grade	16%/0.7%/0.1%		10%/0.4%/0.2%		
Ni/Cu/Co Recovery	82%/889	%/28%	86%/92%/94%		
Processing Costs	\$15	/t	\$25/t		
Product Transport	\$625 /t N	li Metal	\$104 /t	Ni Metal	
Production Statistics					
Final Product/s	Ni-Cu-Co sulphic	le concentrate	Semi-refined m	etal & sulphate	
That Troducty's	(~16%		ntrate Semi-refined metal & sulp (>99% Ni)		
Ni in Product	20kt-28kt 22kt-29kt		t-29kt		
Ni/Cu/Co Payability	72.5%/70%/70%		>99%/90%/50%		
Payable Ni	16-21kt		22kt-29kt		
AISC (average)	~\$3.2/	lb Ni	~\$3.8/lb Ni		
Financial Factors					
Royalty Rate		5	.6%		
Tax Rate		1	.5%		
AUD/USD FX	0.72				
Ni Price Forecast		\$1	6,500		
Discount Rate			9%		
Capital Expense					
Scenario	Sulphide Conce	entrator Only			
Develop. Capex				cuit	
(Excl PS)	\$150M		\$265M		
Pre-Strip (LOM)	\$78	M	\$78M		
Project Valuation					
Base 2021 NPV <sub>9</sub>	A\$45	8M	A\$9	36M	
Risk Discount Factors	Scoping Study N	Maturity -35%			
	Risk Discount	= -A\$160M		nt = A\$515M	
	A\$29		A\$4		



# **Company Valuation**

We have estimated CTM's Company valuation based on the two development scenarios and potential debt and equity funding.

Based on Scenario 1 we have determined an implied CTM value of A\$327M or A\$1.00ps and for Scenario 2 we value CTM at A\$501M or A\$1.54ps. For the purposes of a single valuation figure, we have derived a simple average of these two valuations being A\$414M, equivalent to A\$1.27ps.

# Figure 4: CTM valuation based on Scenario 1 development scenario.

Company Valuation summary	A\$M	A\$/sh
Jaguar Project NPV9 (Risk Discounted 35%)	298	0.91
Jambreiro Project	10	0.03
Exploration, all sites	70	0.22
Corporate overheads	-18	-0.06
Cash and bullion	24	0.07
Debt	0	0.00
Tax benefit	0	0.00
Hedging	0	0.00
Option/equity dilution	-57	-0.17
Total	327	1.00
Source: Argonaut		

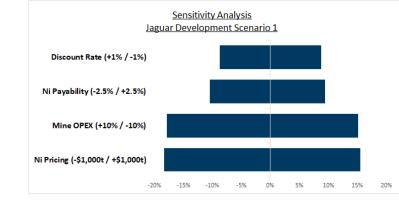
# Figure 5: CTM valuation based on Scenario 2 development scenario.

Company Valuation summary	A\$M	A\$/sh
Jaguar Project (Risk Discounted 55%)	421	1.29
Jambreiro Project	10	0.03
Exploration, all sites	142	0.44
Corporate overheads	-18	-0.06
Cash and bullion	24	0.07
Debt	0	0.00
Tax benefit	0	0.00
Hedging	0	0.00
Option/equity dilution	-78	-0.24
Total	501	1.54
Source: Argonaut		

# **Key Risks to valuation**

CTM's valuation is driven by successful development of the Jaguar project. A sensitivity analysis of select project variables is presented in Figure 6. Greatest sensitivities are related to nickel pricing and operational expenditure.

Figure 6: Project NPV sensitivity analysis for Jaguar development Scenario 1.



Source: Argonaut

### **POX Circuit Capital Costs**

For the purposes of this report capital costs for the Pressure Oxidation (POX) circuit scenario and associated accessory infrastructure have been estimated by Argonaut at approximately US\$115M. This is based on costs for other POX operations but there are few good analogues.

### **Mineable inventory**

Argonaut has completed in-house resource evaluations and estimates based upon incomplete drill hole information available to the market through public company announcements. Grade variability within and external to reported significant intercepts remain largely undefined and may influence the bulk tonnage grade of assumed mineable inventories. Modelled mineable grade-tonnage inventories are based upon technical speculation rather than formal pit optimisation studies.

### **Metallurgical performance**

Provisional metallurgical testing has been completed upon a limited set of samples and is unlikely to accurately represent true future performance. Additional test-work is required to de-risk economic extraction of metals from project ore.

### Marketable product quality

Mineralisation at the Jaguar prospect is considered atypical to common magmatic nickel sulphide deposits. Sulphide concentrate characterisation results released to date have not indicated issues with deleterious abundances. An academic study completed during Vale's custodianship did identify a positive correlation between nickel and fluorine abundance associated with accessory fluorapatite. We believe a risk to sulphide concentrate payability may exist due to the presence of deleterious fluorine. Incorporation of a POX circuit with sulphate product output should eliminate this risk.



# **Commodity Pricing**

Value estimates are based on consensus long term commodity price forecasts. A 1,000 difference to the price of nickel over the modelled life of mine will result in a 15-18% shift in project valuation.

# Costs

Cost assumptions are based on incomplete information or informal estimates. Operating and capital costs assumptions rely on our knowledge of industry rates.

### **Exploration success**

Valuation assumes that future exploration and investments achieve acceptable returns. Subjective value is attributed to exploration assets at Jaguar.

# Interest rates/discount rates

Argonaut takes cash flow risk into account when choosing discount rates for different projects. Our valuation is sensitive to the discount rate used. A 1.0% change to the discount rate shifts project values by approximately 9%.



Ian Christie | Head of Research +61 8 9224 6872 ichristie@argonaut.com

John Macdonald | Director, Metals & Mining Research +61 8 9224 6835 jmacdonald@argonaut.com

George Ross | Analyst, Metals & Mining Research +61 8 9224 6840 georger@argonaut.com

Royce Haese | Analyst, Metals & Mining Research +61 8 9224 6869 rhaese@argonaut.com

INSTITUTIONAL SALES - PERTH:

Chris Wippl | Executive Director, Head of Institutional Sales +61 8 9224 6875 cwippl@argonaut.com

Damian Rooney | Director Institutional Sales +61 8 9224 6862 drooney@argonaut.com

John Santul | Consultant, Sales & Research +61 8 9224 6859 jsantul@argonaut.com

Josh Welch | Institutional Dealer +61 8 9224 6868 jwelch@argonaut.com

George Ogilvie | Institutional Dealer +61 8 9224 6871 gogilvie@argonaut.com

INSTITUTIONAL SALES - HONG KONG:

Damian Rooney | Director Institutional Sales +61 8 9224 6862 drooney@argonaut.com

CORPORATE AND PRIVATE CLIENT SALES:

Glen Colgan | Managing Director, Desk Manager +61 8 9224 6874 gcolgan@argonaut.com

Kevin Johnson | Executive Director, Corporate Stockbroking +61 8 9224 6880 kjohnson@argonaut.com

James McGlew | Executive Director, Corporate Stockbroking +61 8 9224 6866 jmcglew@argonaut.com

Geoff Barnesby-Johnson | Senior Dealer, Corporate Stockbroking +61 8 9224 6854 bj@argonaut.com

Ben Willoughby | Senior Dealer, Corporate Stockbroking +61 8 9224 6876 bwilloughby@argonaut.com

Philip Grant | Senior Dealer, Corporate Stockbroking +61 8 9224 6834, pgrant@argonaut.com

Rob Healy | Dealer, Private Clients +61 8 9224 6873, rhealy@argonaut.com

Cameron Prunster | Dealer, Private Clients +61 8 9224 6853 cprunster@argonaut.com

James Massey | Dealer, Private Clients +61 8 9224 6849 jmassey@argonaut.com

Chris Hill | Dealer, Private Clients +61 8 9224 6830, chill@argonaut.com

Harry Massey | Dealer, Private Clients +61 8 9224 6829, hmassey@argonaut.com

Jonas Dorling | Assoc. Dealer / Prov. Fin. Advisor, Private Clients +61 8 9224 6837, jdorling@argonaut.com

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Argonaut holds or controls 192,000 CTM Shares.

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