

# **AVANCO RESOURCES LIMITED (AVB)**

## Pantera; not just a rock band

Avanco Resources Limited (AVB) has entered into an option agreement to acquire the Pantera Copper Project from Vale. The project is ~110km west of AVB's Pedra Branca Copper-Gold Project in the Carajás region of Brazil and 20km from Vale's Onça Puma Nickel Mine. Pantera is in its infancy with no JORC resource and only 19 holes drilled to date by Vale. However, given that the terms of the agreement hinge around the estimation of 400kt of contained Cu and the "acquisition price" has been calculated at US\$0.04/lb (excluding inferred resources) where AVB expects to pay between US\$20M - US\$35M, an exploration target of 300-450kt Cu seems reasonable. This is meaningful to AVB when you consider its current global resource is 645kt Cu inclusive of inferred ore. Previous drilling results indicate high-grade copper at depth and include: 26m @ 2.6% Cu from 81m (incl. 10m @ 3.8% Cu), 15m @ 2.8% Cu from 113m (incl. 6m @ 5.3% Cu), and 59m @ 1.4% Cu from 173m (incl. 11m @ 3.6% Cu and 39m @ 2.1% Cu). The historic drilling has defined mineralisation over 1.5km. AVB has identified the potential for mineralisation to extend to beyond 4km of strike, which is currently open at depth. A 5,000m drill program will commence this quarter.

The terms of the transaction include: Payment of US\$500,000 to Vale upon signing the option (completed), and a further payment of US\$0.04/lb of contain copper up to 400kt and US\$0.06/lb thereafter based on a JORC (measured and indicated) resource defined by AVB within an agreed Historic Mineralised Zone as outlined by Vale's drilling. AVB must complete a 14,000m of drilling within 2 years and the Company will pay an NSR to Vale of 1% on copper, and a 1.5% NSR to BNDES (Brazilian Development Bank). Any copper defined outside the agreed Historic Mineralised Zone will attract no acquisition cost. Payments are capped at US\$3Mpa.

## FY17; cost blow out but production guidance met

AVB had a solid production year in which it beat its original guidance. However, costs blew out towards the end of the CY. The Company produced 14.1kt Cu and 11.4koz Au in CY17 at an AISC of US\$1.94/lb and C1 of US\$1.64/lb. A cost blow out in the DecQ has led to AISC at the upper end of guidance (US\$1.85-1.95/lb), which had been revised up from US\$1.65-1.80/lb. AVB attributes the cost increases to lower than forecast grades in the DecQ and plant maintenance, which has led to ROM depletion. AVB produced 3.3kt Cu (3.7kt Cu in SepQ) and 2.5kozAu (3.1koz Au in SepQ) in the DecQ for an AISC of US\$2.24/lb US\$1.78/lb in SepQ). Recoveries dipped to 97% and 81% for Cu and Au respectively, down from 98% and 84%. Concentrate sales of 7.64Mlb Cu and 2.3koz Au will generate a provisional sales revenue of US\$26.1 (excluding costs), up from the SepQ sales of US\$25.6M on account of the strong copper price.

## Maintain Speculative Buy

While our valuation has reduced to 16cps (from 17cps) on account of the poor quarterly cost performance, the Pantera acquisition is a positive one and allows us to add A\$30M to our nominal exploration valuation. Our price target is unchanged at 18cps with a spot price NAV of 19cps.

# AVB.asx Speculative Buy

	30 Jan 2018
Share Price	\$0.08
Valuation	\$0.16
Price Target (12 month)	\$0.18

#### Brief Business Description:

Cu-Au developer and explorer

#### Hartleys Brief Investment Conclusion

Brazilian Cu-Au miner, expected to produce ~14ktpa Cu & 10kozpa Au from Antas this year, with grow th potential at Pedra Branca and further afield. Chairman & MD Vernon Tidy (Interim Chairman & Non-Exec Director) Tony Polelase (Managing Director)

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T	Charabal	dara	

Top Shareholders			
Appian Natural Resources		18.5%	
Greenstone			16.7%
Blackrock Group			12.9%
Glencore			8.3%
Company Address			
Suite 3, 257 York Street			
Subiaco, WA 6008			
Issued Capital		2	2456.9m
- fully diluted		2	2648.9m
Market Cap		AS	\$206.4m
- fully diluted		AS	\$222.5m
Cash (31 Dec 17a)		A	\$30.1m
Debt			A\$0.0m
EV		AS	\$176.3m
EV/Resource lb		A	60.12/oz
Prelim. (A\$m)	CY16a	CY17e	CY18e
Prod (kt Cu)	10.3	13.6	14.3
Op Cash Flw	16.1	38.4	51.0
Norm NPAT	4.8	10.1	24.7
CF/Share (cps)	0.2	0.5	1.2
EPS (cps)	0.2	0.5	1.2
P/E	36.3		
P/E	36.3 Mt		7.0 Au (g/t)
P/E Resources (CentroGold)			



Paul How ard Resources Analyst Ph: +61 8 9268 3045 E: paul.how ard@hartleys.com.au

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# SUMMARY MODEL

Avanco Resource AVB	s Ltd				Shar	e Price \$0.084
Key Market Information		l.				
Share Price						\$0.084
Market Capitalisation - ordina Net Cash	ary					A\$206m A\$30m
Market Capitalisation - fully d	liluted					A\$223m
EV	mateu					A\$253m
Issued Capital						2456.9m
Options						192.0
Issued Capital (fully diluted ir Issued Capital (fully diluted ir			apital)			2648.9m 3584.9m
Valuation 12month price target						\$0.16 <b>\$0.18</b>
P&L	l les it	Dec 40	Dec 47	Dec 40	Dec 40	
Net Revenue	Unit A\$m	Dec 16 66.2	Dec 17 122.0	Dec 18 139.8	Dec 19 221.4	Dec 20 422.9
Total Costs	A\$m	-55.6	-90.1	-87.6	-130.0	-236.7
EBITDA	A\$m	10.6	31.9	52.3	91.4	186.2
- margin		16%	26%	37%	41%	44%
Depreciation/Amort	A\$m	0.0	-20.4	-23.4	-32.1	-47.0
EBIT	A\$m	10.6	11.5	28.9	59.4	139.3
Net Interest	A\$m	-4.9	0.6	0.6	-5.8	-10.8
Norm. Pre-Tax Profit	A\$m	5.7	12.0	29.4	53.6	128.4
Reported Tax Expense Normalised NPAT	A\$m <b>A\$m</b>	0.0 <b>4.8</b>	0.0 <b>10.1</b>	0.0 <b>24.7</b>	-3.0 <b>45.0</b>	-20.5 107.9
Abnormalitems	A\$m A\$m	<b>4.8</b> 0.9	1.9	4.7	45.0 5.6	0.0
Reported Profit	A\$m A\$m	0.9 5.7	12.0	29.4	50.6	107.9
Minority	A\$m	0	0	23.4	0.0	07.3
Profit Attrib	A\$m	5.7	12.0	29.4	50.6	107.9
Balance Sheet	Unit	Dec 16	Dec 17	Dec 18	Dec 19	Dec 20
Cash	A\$m	30.5	47.4	15.1	156.9	152.2
Other Current Assets	A\$m	22.4	10.0	11.5	18.2	34.8
Total Current Assets	A\$m	53.0	57.5	26.6	175.1	187.0
Property, Plant & Equip.	A\$m	81.5	67.0	101.5	211.0	309.4
Exploration	A\$m	28.3	43.9	69.3	83.3	97.3
Investments/other Tot Non-Curr. Assets	A\$m <b>A\$m</b>	2.9 112.7	2.9 113.8	2.9 <b>173.7</b>	2.9 <b>297.2</b>	2.9 <b>409.6</b>
Total Assets	A\$m	165.7	171.3	200.3	472.3	596.6
Short Term Borrow inas	A\$m	6.5	6.5	6.5	6.5	6.5
Other	A\$m	17.4	10.9	10.5	14.2	23.0
Total Curr. Liabilities	A\$m	23.8	17.4	17.0	20.7	29.4
Long Term Borrow ings	A\$m	-	-	-	158.1	126.5
Other	A\$m	23.8	23.8	23.8	23.8	23.8
Total Non-Curr. Liabil.	A\$m	23.8	23.8	23.8	181.9	150.3
Total Liabilities	A\$m	47.7	41.2	40.8	202.6	179.7
Net Assets Net Debt	A\$m	118.0	130.0	159.5	269.7	416.9
Net Debt	A\$m	-24.0	-40.9	-8.6	7.7	-19.3
Cashflow	Unit	Dec 16	Dec 17	Dec 18	Dec 19	Dec 20
Operating Cashflow ncome Tax Paid	A\$m A\$m	16.5 0.0	37.8 0.0	50.4 0.0	88.4 -3.0	178.4
ncome Tax Paid nterest & Other	A\$m A\$m	-0.4	0.0	0.0	-3.0 -5.8	-20.5
Operating Activities	A\$m	-0.4 16.1	38.4	51.0	-5.8 79.7	- 10.0
eperating Activities	Citra (	10.1	30.4	51.0	13.1	147.
Property, Plant & Equip.	A\$m	0.0	-3.3	-45.0	-137.7	-141.4
Exploration and Devel.	A\$m	-4.2	-15.6	-25.4	-14.0	-14.0
Other	A\$m	-26.3	-2.6	-12.9	-3.9	-3.9
nvestment Activities	A\$m	-30.6	-21.5	-83.3	-155.6	-159.4
Net Borrow ings	A\$m	0.0	0.0	0.0	158.1	-31.6
Equity or "tbc capital"	A\$m	0.0	0.0	0.0	59.6	39.3
Dividends Paid Financing Activities	A\$m <b>A\$m</b>	0.0 <b>3.2</b>	0.0 <b>0.0</b>	0.0 <b>0.0</b>	0.0 <b>217.7</b>	0.0 7.6
Net Cashflow	A\$m	-11.2	16.9	-32.3	141.8	-4.7
			Dec 17	Dec 18	Dec 19	Dec 20
Shares	Unit	Dec 16	Decin			
Ordinary Shares - End	m	2457	2457	2457	2458	2458
Ordinary Shares - End Ordinary Shares - Weighted	m				2458 2457 2457	2458
Ordinary Shares - End Ordinary Shares - Weighted Diluted Shares - Weighted	m m m	2457 2461 2461	2457 2457 2457	2457 2457 2457	2457 2457	2458 2458
Ordinary Shares - End Ordinary Shares - Weighted Diluted Shares - Weighted Ratio Analysis	m m M	2457 2461 2461 Dec 16	2457 2457 2457 Dec 17	2457 2457 2457 Dec 18	2457 2457 Dec 19	2458 2458 Dec 20
Ordinary Shares - End Ordinary Shares - Weighted Diluted Shares - Weighted Ratio Analysis Cashflow Per Share	m m m	2457 2461 2461 <b>Dec 16</b> 0.7	2457 2457 2457 <b>Dec 17</b> 1.6	2457 2457 2457 <b>Dec 18</b> 2.1	2457 2457 Dec 19 3.2	2458 2458 Dec 20 6.0
Ordinary Shares - End Ordinary Shares - Weighted Diluted Shares - Weighted Ratio Analysis Cashflow Per Share Cashflow Multiple	m m <b>Unit</b> A\$ cps x	2457 2461 2461 Dec 16	2457 2457 2457 <b>Dec 17</b>	2457 2457 2457 Dec 18	2457 2457 Dec 19	2458 2458 Dec 20 6.0
Ordinary Shares - End Ordinary Shares - Weighted Diluted Shares - Weighted Ratio Analysis Cashflow Per Share Cashflow Multiple Earnings Per Share	m m M <b>Unit</b> A\$ cps	2457 2461 2461 <b>Dec 16</b> 0.7 12.8	2457 2457 2457 <b>Dec 17</b> 1.6 5.4	2457 2457 2457 <b>Dec 18</b> 2.1 4.0	2457 2457 Dec 19 3.2 2.6	2458 2458 Dec 20 6.0 0.0 4.4
Ordinary Shares - End Ordinary Shares - Weighted Diuted Shares - Weighted Diuted Shares - Weighted Cashflow Mer Share Cashflow Multiple Earnings Per Share Price to Earnings Ratio	m m M Unit A\$ cps x A\$ cps	2457 2461 2461 <b>Dec 16</b> 0.7 12.8 0.2	2457 2457 2457 <b>Dec 17</b> 1.6 5.4 0.5	2457 2457 2457 Dec 18 2.1 4.0 1.2	2457 2457 Dec 19 3.2 2.6 2.1	2458 2458 2458 Dec 20 6.0 0.0 4.4 0.0
Ordinary Shares - End Ordinary Shares - Weighted Diluted Shares - Weighted Cashflow Per Share Cashflow Multiple Earnings Per Share Price to Earnings Ratio Dividends Per Share	m m M A\$ cps x A\$ cps x x	2457 2461 2461 <b>Dec 16</b> 0.7 12.8 0.2 36.3	2457 2457 2457 <b>Dec 17</b> 1.6 5.4 0.5 17.2	2457 2457 2457 <b>Dec 18</b> 2.1 4.0 1.2 7.0	2457 2457 Dec 19 3.2 2.6 2.1 4.1	2458 2458 2458 0.0 0.0 0.0 0.0
Ordinary Shares - End Ordinary Shares - Weighted Diluted Shares - Weighted Cashflow Multiple Earnings Per Share Price to Earnings Ratio Dividends Per Share Dividends Per Share Dividend Yield	m m M A\$ cps x A\$ cps x AUD % %	2457 2461 2461 <b>Dec 16</b> 0.7 12.8 0.2 36.3 0.0 0.0% -26%	2457 2457 2457 <b>Dec 17</b> 1.6 5.4 0.5 17.2 0.0	2457 2457 2457 <b>Dec 18</b> 2.1 4.0 1.2 7.0 0.0	2457 2457 <b>Dec 19</b> 3.2 2.6 2.1 4.1 0.0 0.0% 3%	2458 2458 2458 0.0 0.0 4.4 0.0 0.0% -5%
Shares Ordinary Shares - End Ordinary Shares - Weighted Diluted Shares - Weighted Ratio Analysis Cashflow Multiple Earnings Per Share Dividends Per Share Dividends Per Share Dividend Yield Net Debt / Net Debt + Equity Interest Cover Return on Equity	m m <b>Unit</b> A\$ cps x A\$ cps x A\$ cps x A\$ D %	2457 2461 2461 <b>Dec 16</b> 0.7 12.8 0.2 36.3 0.0 0.0%	2457 2457 2457 <b>Dec 17</b> 1.6 5.4 0.5 17.2 0.0 0.0%	2457 2457 2457 <b>Dec 18</b> 2.1 4.0 1.2 7.0 0.0 0.0%	2457 2457 <b>Dec 19</b> 3.2 2.6 2.1 4.1 0.0 0.0%	2458 2458 2458 <b>Dec 20</b> 6.0 0.0 0.0 0.0% -5% 12.9 26%

					30 Janua	rv 2018
					Speculati	
Directors				Con	npany Info	rmation
Vernon Tidy (Interim Chairman & Non-Exec	Director)				e 3, 257 Yo	ork Street
Tony Polglase (Managing Director) Luis Ferraz (Non-Exec Director)					Subiaco,	
Paul Chapman (Non-Exec Director)						324 1866 200 1851
Luis Azevedo (Executive Director)					10103	200 1001
Simon Mottram (Executive Director)					ancoresou	rces.com
Top Shareholders					shares	%
Appian Natural Resources Fund Greenstone					153.3 109.9	18.5 16.7
Blackrock Group					317.4	12.9
Glencore					203.1	8.3
Reserves & Resources		Mt	Cu (%)	Au (g/t)		Au (koz)
TOTAL RESERVES		3.0	2.64	0.58	80.4	56.5
TOTAL RESOURCES		33.2	1.95 2.4	0.49	645 133	506 84
Measured		2.0	3.42	0.8	67	48
Indicated		1.6	2.23	0.4	36	22
Inferred		1.9	1.59	0.2	30	14
Pedra Branca East		10.5	2.8	0.7	289	221
Measured		2.0	2.7	0.7	53	43
Indicated Inferred		5.7 2.8	2.8 2.7	0.7 0.6	161 75	123 55
Antas South		10.1	0.8	0.8	85	65
Pedra Branca West		7.2	1.9	0.6	138	136
CentroGold		31.5	-	1.8	-	1,863
Indicated		21.1	-	1.7	-	1,190
Inferred Production Summary - Antas North	Unit	10.4 Doc 16	- Dog 17-	2.0 Dec 18	- Do o 10-	673 Dec 20
Production Summary - Antas North Mill Throughput	Unit Mt	Dec 16 0.5	Dec 17 0.7	Dec 18 0.7	Dec 19 0.7	Dec 20 0.7
Mined grade	%	2.17	1.61	2.20	2.20	2.20
Copper (payable)	(kt)	10.3	13.6	14.3	14.3	14.3
Gold (payable)	(koz)	7.4	10.8	10.6	10.6	10.6
Copper Equiv (payable)	(kt)	11.6	15.2	15.8	16.0	15.9
Mine Life	yr	9.25	8.25	7.25	6.25	5.25
Production Summary - Pedra Branca E Mil Throughput	a Unit Mt	Dec 16 0.0	Dec 17 0.0	Dec 18 0.0	Dec 19 0.0	Dec 20 0.7
Mined grade	%	0.0	0.0	0.0	0.0	2.2
Copper (payable)	(kt)	0.0	0.0	0.0	0.0	13.3
Gold (payable)	(koz)	0.0	0.0	0.0	0.0	10.6
Copper Equiv (payable)	(kt)	0.0	0.0	0.0	0.0	14.9
Mine Life	yr	-	11.50	10.75	9.75	8.75
Costs Cost per milled tonne	Unit \$A/t Eq	Dec 16 118.4	Dec 17 115.9	Dec 18	Dec 19 95.4	Dec 20 85.6
EBITDA / tonne milled ore	\$A/t Eq	20.8	45.0	74.6	130.6	135.9
C1: Operating Cash Cost = (a)	\$A/lb Eq	2.07	2.29	2.04	3.16	3.00
	US\$/lb Eq	1.55	1.78	1.59	2.40	2.30
(a) + Royalty = (b)	\$A/lb Eq	2.37	2.62	2.39	3.62	3.45
C2: (a) + depreciation & amortisation = (c) (a) + actual cash for development = (d)	\$A/lb Eq \$A/lb Eq	2.07 2.44	3.63 3.31	3.52 3.64	5.17 4.04	4.52 3.45
C3: (c) + Royalty		2.44	3.96	3.86	5.63	4.98
(d) + Royalty	\$A/lb Eq \$A/lb Eq	2.37	3.64	3.99	4.50	3.91
Total operating costs (AISC)	\$A/lb Eq	3.03	3.58	3.58	3.14	2.69
	US\$/Ib Eq	2.27	2.78	2.78	2.39	2.06
AISC (net of credits)	US\$/Ib	2.26	2.27	2.27	2.34	1.98
Price Assumptions	Unit	Dec 16	Dec 17	Dec 18	Dec 19	Dec 20
AUDUSD	A\$/US\$	0.75	0.78	0.78	0.76	0.77
USDBRL Copper	US\$/BRL US\$/lb	3.33 2.28	3.20 2.71	3.40 3.00	3.63 2.75	3.78 2.75
Gold	US\$/oz	1255	1263	1303	1313	1250
Hedging		Dec 16	Dec 17	Dec 18	Dec 19	Dec 20
Hedges maturing?		No	No	Yes	No	No
Sensitivity Analysis		Malaria				
Base Case		Valuation 0.16		F	Y17 NPAT 12.0	
Spot Prices		0.19 (17.3%	)	29	.0 (141.5%)	
Spot USD/AUD 0.81, Copper \$3.19/lb, Gold	\$1,340/oz	0.10 (11.070	/	20		
AUDUSD +/10%	0.12 /	0.21 (-26.9%		4.0 / 21.9	(-67.1%/8	32.0%)
Copper +/10%		0.11 (24.9% /			(82.4% / -8	
Production +/10%		/ 0.16 (0.0% /			2.0 (0.0% / 0	
Operating Costs +/10%	0.13/	0.19 (-18.8%	/18.2%) Risked E	4.3 / 19.7		\$/share
Share Price Valuation (NAV) 100% Pedra Branca (pre-tax NAV at disc.	rate of 12%)		Niskeu E	139	ESI. P	0.04
100% Antas (pre-tax NAV at disc. rate of 8				202		0.06
100% CentroGold (pre-tax NAV at disc. rat				175		0.05
Other Exploration				120		0.03
Forwards				0		0.00
Corporate Overheads				-17 30		0.00
Net Cash (Debt) Tax (NPV future liability)				-89		0.01 -0.02
Options & Other Equity				-03		0.02
Hedging				-2		0.00
Total				575.9		0.16
				Last L	Ipdated: 30	/01/2018

Analyst: Paul How ard +61 8 9268 3045 \*tbc capital" could be equity or debt. Our valuation is risk-adjusted for how this may be obtained. Sources: IRESS, Company Information, Hartleys Research

# VALUATION

We have updated our model from quarterly actuals and adjusted our forecasts. Our sum of parts valuation for AVB assumes Antas is at full plant capacity (0.7Mtpa), CentroGold commences production in CY19 and Pedra Branca moves into production in early-CY20. We model a nominal exploration value (A\$30M) for the recent Pantera acquisition. We model Antas out to mid-CY25 (8 years remaining) and assume additional resource tonnes convert, and are included in the mining inventory. We have adjusted our Cu recoveries to 97% going forward and await the release of an updated Antas mine plan this quarter.

We model a staged 9.5 years at Pedra Branca, and see potential upside at both projects. With the inclusion of Chega Tudo, we model CentroGold as a 10 year, 2Mtpa operation at a head-grade of 1.8g/t. CentroGold is somewhat risked as licensing issues currently remain unresolved but a clear pathway to resolution is apparent and would be a catalyst for an upgrade to a Buy recommendation. We model a nominal A\$120m (\$0.03/share) for exploration upside. We have added A\$30M as consideration for the recent Pantera acquisition and will look to evaluate this as further information is released. We believe AVB is well positioned for brownfield exploration success at both projects and more regionally. We assume the 192M options @ 10c are exercised in June 2018 (150M) and December 2019 (42M).

Fig. 1:	Hartleys Sum of Parts Valua	tion for AVB	
Share Price V	aluation (NAV)	Risked Est. A\$m	Est. A\$/share
100% Pedra Bra	anca (pre-tax NAV at disc. rate of 12%)	139	0.04
100% Antas (pi	e-tax NAV at disc. rate of 8%)	202	0.06
100% CentroGo	ld (pre-tax NAV at disc. rate of 14%)	175	0.05
Other Exploration	n	120	0.03
Forw ards		0	0.00
Corporate Over	heads	-17	0.00
Net Cash (Debt)	1	30	0.01
Tax (NPV future	e liability)	-89	-0.02
Options & Other	<sup>-</sup> Equity	17	0.00
Hedging		-2	0.00
Total		575.8	0.16

Source: Hartleys Estimates

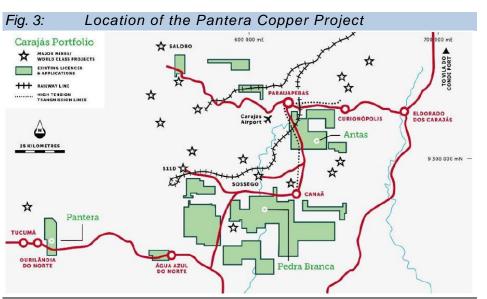
ig. 2: Earnings Changes								
	Unit	31 Dec 16	3	1 Dec 17		3	1 Dec 18	
		Actual	Old	New	% diff	Old	New	% diff
Cu Production (payable)	kt	10.3	14.0	13.6	-2.8%	14.3	14.3	0.0%
Au Production (payable)	koz	7.4	11.1	10.8	-3.0%	10.8	10.6	-1.2%
Cash costs (C1)	A\$/lb Eq	2.07	2.18	2.29	5.2%	2.01	2.04	1.3%
Total operating costs (AISC)	\$A/lb Eq	3.03	3.45	3.58	3.6%	3.50	3.58	2.4%
Net Revenue	A\$m	66.2	130.6	122.0	-6.6%	140.1	139.8	-0.2%
Total Costs	A\$m	-55.6	-88.7	-90.1	1.6%	-86.8	-87.6	0.9%
EBITDA	A\$m	10.6	41.9	31.9	-23.9%	53.3	52.3	-1.9%
- margin		16%	32%	26%	-18.6%	38%	37%	-1.7%
Depreciation/Amort	A\$m	0.0	-20.2	-20.4	0.9%	-21.8	-23.4	7.5%
EBIT	A\$m	10.6	21.7	11.5	-47.1%	31.5	28.9	-8.4%
Net Interest	A\$m	-4.9	0.6	0.6	0.0%	-5.8	0.6	-109.7%
Norm. Pre-Tax Profit	A\$m	5.7	22.2	12.0	-46.0%	25.7	29.4	14.3%
Norm. Tax Expense	A\$m	-0.9	-3.6	-1.9	-46.0%	-4.1	-4.7	14.3%
- rate		16.0%	16%	16.0%	0.0%	16.0%	16.0%	0.0%
Reported Tax Expense	A\$m	0.0	0.0	0.0	n/a	0.0	0.0	n/a
Normalised NPAT	A\$m	4.8	18.7	10.1	-46.0%	21.6	24.7	14.3%
Abnormal Items	A\$m	0.9	3.6	1.9	-46.0%	4.1	4.7	14.3%
Reported Profit	A\$m	5.7	22.2	12.0	-46.0%	25.7	29.4	14.3%
Minority	A\$m	0	0	0	n/a	0	0	n/a
Profit Attrib	A\$m	5.7	22.2	12.0	-46.0%	25.7	29.4	14.3%
capex + exploration	A\$m	-4.2	-18.5	-18.9	2.4%	-68.4	-70.4	3.0%
Net Debt	A\$m	-24.0	-53.2	-40.9	-23.0%	-90.8	-8.6	-90.5%
Dividends Per Share	cps	-	-	-	n/a	-	-	n/a

Source: Hartleys Estimates

Hartleys models Antas to 2025, CentroGold to 2029 & Pedra Branca to 2029

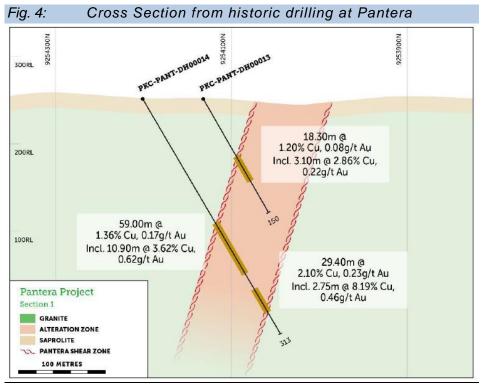
## Hartleys sum of parts valuation for AVB has increased to A\$0.16/share

FY17 actuals will be released during this coming quarter and will be updated in our next note



Pantera is located ~110km west of Pedra Branca

Source: Avanco Resources



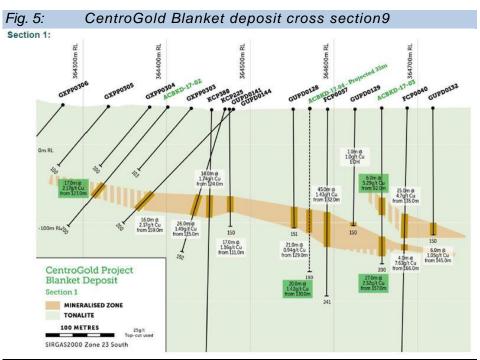
Vale has completed 19 drill holes at Pantera

Source: Avanco Resources

## ONGOING DRILLING SUCCESS

During the DecQ, AVB released the results of infill drilling at CentroGold and nearmine drilling at Antas.

At CentroGold, the results confirm continuity of grade at the Blanket Zone and include: **51m @ 4.3g/t Au** from 95m (incl. 12.3m @ 13.7g/t Au), **17m @ 2.2g/t Au** from 123m, **6m @ 5.3g/t Au** from 92m and **27m 2.5g/t Au** from 157m. Drilling is focussed on upgrading the resource classification at CentroGold ahead of the Scoping Study, which is due to be released in the MarQ CY18. Four drill rigs are on site and have since turned their attention to the adjacent Contact Zone with results due imminently.

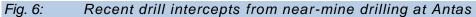


Drilling at CentroGold will aid the Scoping Study, which is due for release in the MarQ CY18.

Source: Avanco Resources

Diamond drilling at the Azevedo prospect, 400m from the Antas pit returned: **18m @ 1.9% Cu & 0.4g/t Au** from 117m (incl. 2.2m **@** 8.9% Cu & 1.9g/t Au), **19.1m @ 1.8% Cu & 0.3g/t Au** from 23m and **4.5m @ 1.5% Cu** from 47m. The encouraging results will be followed up by AVB's in-house DHEM team to gain further understanding of the prospect and to generate additional targets. One of the three recent holes failed to intersect mineralisation, which AVB puts down to the plunging nature of the orebody. These key observations will assist with future targeting. AVB is also undertaking a grade control program and intends to release an updated Antas reserve and optimised mine plan in the MarQ CY18.

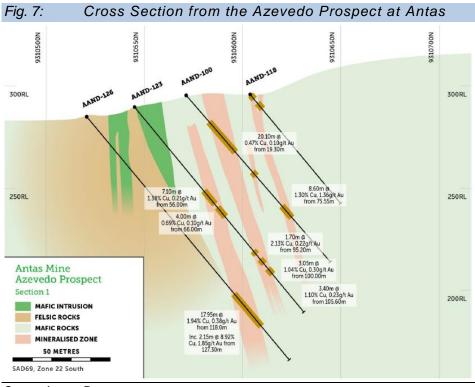
An updated Antas reserve and mine plan will be released in the MarQ CY18.





Mineralisation at the Azevedo is open at depth and comprises a series of stacked lenses.

Source: Avanco Resources



Source: Avanco Resources

# **PRICE TARGET**

Our price target for AVB is \$0.18 and assumes Antas is at full plant capacity (0.7Mtpa) as at SepQ CY17, CentroGold gets permitted and commences in CY19, and that Pedra Branca gets approved and moves into production in 2020. Both copper projects combined will see AVB take steps towards becoming a mid-tier copper producer with a relatively large, long life copper mining business. The CentroGold asset offers very good gold exposure and sees AVB as somewhat diversified. Further discoveries, mine extensions and/or optimisation of Pedra Branca West will see AVB reach its 50ktpa Cu and 35kozpa Au target. Our price target includes weighting for the base case at consensus and spot prices, a weighting for the net cash backing and an upside scenario where an additional 5 years is added to the Antas mine life and Pedra Branca West is included in the mine plan.

## 12-month price target of \$0.18

Fig. 8:	AVB price	target	methodology

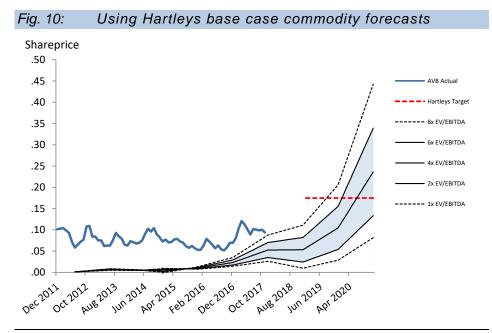
Price Target Methodology	Weighting	Spot	12 mth out
NPV base case	60%	\$0.16	\$0.19
NPV at spot commodity and fx prices	20%	\$0.19	\$0.21
Net cash backing	10%	\$0.01	\$0.01
NPV upside (5 yrs added to Antas + Pedra Branca West)	10%	\$0.19	\$0.23
Risk weighted composite		\$0.15	
12 Months Price Target		\$0.18	
Shareprice - Last		\$0.084	
12 mth total return (% to 12mth target )		115%	
Source: Hartleys Estimates			

## RISKS

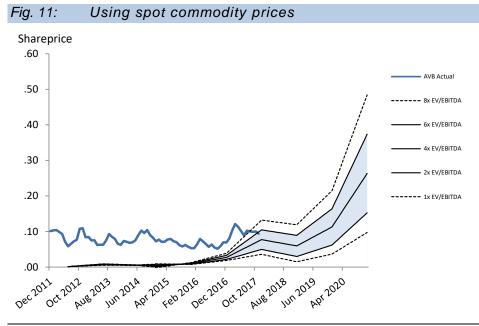
Fig. 9: Key assum	ptions and risks	for valuation	
Assumption	Risk of not realising assumption	Risk to valuation if assumption is incorrect	Comment
0.7Mtpa Antas, 1.2Mtpa Pedra Branca & 2Mtpa CentroGold	Moderate	Meaningful	AVB is highly leveraged to the success of the Antas Copper project. We model a 0.7Mtpa 'starter' project followed by a 1.2Mtpa project at Pedra Branca. Meanwhile, we model CentroGold commencing operations in CY19. If either project varies from our modelled scenarios our valuation will be at risk to the downside
Model parameters	Moderate	Meaningful	We have made a number of large assumptions in our valuation of AVB, changes in these assumptions can change our valuation to both the upside and downside.
Exploration potential	Moderate	Meaningful	We assume exploration upside at all projects and throughout the region. We believe this assumption is reasonable given the geological prospectively of the world class Carajás province.
Funding	Moderate	High	We model Pedra Branca to be funded with new conventional debt (70%) and equity (30%), and CentroGold to be funded with 60% debt and 40% equity. We believe this assumption is acceptable given the Antas 'starter' project is fully funded.
Conclusion	At this early stage w	e have made significa	nt assumptions but believe these are achievable.

Source: Hartleys Research

# **EV/EBITDA BANDS**



Source: Hartleys Estimates, IRESS



Source: Hartleys Estimates, IRESS

# HARTLEYS CORPORATE DIRECTORY

+61 8 9268 2819

+61 8 9268 2851

#### Research

Research		
Trent Barnett	Head of Research	+61 8 9268 3052
Mike Millikan	Resources Analyst	+61 8 9268 2805
John Macdonald	Resources Analyst	+61 8 9268 3020
Paul Howard	Resources Analyst	+61 8 9268 3045
Aiden Bradley	Research Analyst	+61 8 9268 2876
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Corporate Finance		
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Associate Director

Manager

### **Registered Office**

Scott Stephens

Rhys Simpson

#### Level 6, 141 St Georges TcePostal Address:

PerthWA 6000	GPO Box 2777
Australia	Perth WA 6001
PH:+61 8 9268 2888	FX: +61 8 9268 2800
www.hartleys.com.au	info@hartleys.com.au
Note: personal email addres	ses of company employees are
structured in the following	
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Buy	Share price appreciation anticipated.				
Accumulate					
	price level at which it may become a "Buy".				
Neutral	Take no action. Upside & downside risk/reward is evenly balanced.				
Reduce /	It is anticipated to be unlikely that there will be gains over				
Take profits	the investment time horizon but there is a possibility of				
	some price weakness over that period.				
Sell	Significant price depreciation anticipated.				
No Rating	No recommendation.				
Speculative	Share price could be volatile. While it is anticipated that,				
Buy	on a risk/reward basis, an investment is attractive, there				
	is at least one identifiable risk that has a meaningful				
	possibility of occurring, which, if it did occur, could lead to				
	significant share price reduction. Consequently, the				
	investment is considered high risk.				

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