

# **ARAFURA RESOURCES LIMITED (ARU)**

## Project progressing. ILUA due imminently

Arafura Resources Ltd (ARU) has announced that it has raised \$7m of equity at 6.2cps. We estimate this brings net cash to ~\$22m.

The Company continues to advance the Nolans rare earth project in central Australia. The Company already has an in principle Indigenous Land Use Agreement (ILUA) reached with native title holders and has completed an Indigenous Engagement Strategy. Covid-19 has delayed the execution of the agreements until travel restriction within the North Territory were relaxed (restrictions were relaxed only recently).

The mining lease can't be granted until the ILUA is executed. Consequently, there has also been a delay to the lease. The Company is working with Government and stakeholders so that the mining licence is not unduly delayed following the ILUA execution (ie hopefully will be granted by the September).

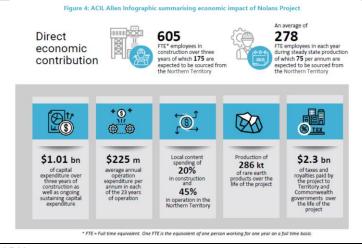
## Large volumes of NdPr oxide

Nolans will produce NdPr oxide. Volumes are large at ~4ktpa of NdPr oxide (around 8-10% of the current market). Eventual growth in the NdPr market is expected to be strong based mainly on the outlook for electric vehicles. In addition, there is strategic value of rare earths, and ARU's location in Australia should be a premium for reliable supply. Note, ARU's current NdPr offtakes are all with large Chinese magnet manufacturers. The project is also expected to produce phosphoric acid and low value cerium product which, combined, are ~20% of revenue.

## Speculative Buy recommendation

Covid-19 has further cemented the risks of a concentrated supply chain, and ARU offers an advanced rare earth development that can help diversify supply chains. At the moment though, using current NdPr prices, we estimate that Nolans is uneconomic. We believe prices need to increase to incentivise the supply to meet medium term (2025-2030) demand forecasts. Market and funding risk remain the key risks. We have a Speculative Buy recommendation.

Fig. 1: Project has big economic impact to central Australia



Source: ARU

## ARU.asx Speculative Buy

<u> </u>	15 Jun 2020
Share Price	\$0.064
Valuation	\$0.15
Price Target (12 month)	\$0.10

#### **Brief Business Description:**

ARU is developing the very large Nolans NdPr (rare earth) project in Central Australia.

#### Hartleys Brief Investment Conclusion

The capital hurdle is a big challenge. However, given the advanced stage, low sovereign risk, strategic importance and high growth outlook, capital maybe available.

#### Chairman & MD

Mark Southey (Non-Exec Chairman) Gavin Lockyer (Managing Director)

#### Top Shareholders

ECE (East China Expl & Dev. Bureau) 9.4% Talaxis (Noble Group) 4.7%

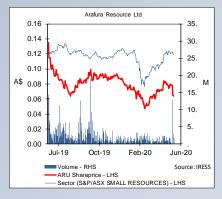
1167.8m

#### **Company Address**

Level 6, 432 Murray Street

Perth, WA, 6000 Issued Capital

Reserves	29.5	2.9	13.0
Resources	56.0	2.8	11.6
	Mt	TREO%	P2O5%
P/E	-7.3	-16.1	-5.9
EPS (cps)	-0.9	-0.4	-1.1
CF/Share (cps)	-0.9	-0.4	-1.1
Norm NPAT	-5.1	-13.0	-63.8
Op Cash Flw	-6.9	-12.0	-70.5
Prod (NdPr)	0	0	0
Prelim. (A\$m)	FY20e	FY21e	FY22e
EV -current			A\$52.6m
Debt (30 Jun 2020)			A\$0.0m
Cash (30 Jun 2020)			A\$22.1m
- fully diluted			A\$77m
Market Cap			A\$75m
- fully diluted			1198.5m



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# **SUMMARY MODEL**

Arafura Resource L ARU	u				Sna	\$0.064							Specula	lune 2 ative
Key Market Information							Directors						Company I	Inform
Share Price						\$0.064	Mark Southey (Non-Exec Chairman)					L	evel 6, 432 M	1urray
Market Capitalisation - ordinary						A\$75m	Gavin Lockyer (Managing Director)							h, WA
Net Cash (Debt)						\$22m	Chris Tonkin (Non-Exec Director)	F0F '					+61 8	8 6370
Market Capitalisation - fully dilu EV	ted					A\$77m	Quansheng Zhang (Non-Exec Director	, ECE nominee)					https://www.	, andt-
EV Issued Capital						A\$54.6m 1167.8m	Top Shareholders						https://www	arulto,
Options						30.7	ECE (East China Expl & Dev. Bureau)						109.70	9.4
Issued Capital (fully diluted inc.	all options)					1198.5m	Talaxis (Noble Group)						55.14	4.7
ssued Capital (fully diluted inc.		d new capital)				8738.5m								
/aluation						\$0.15								
12month price target P&L	Unit	30 Jun 21	30 Jun 22	30 Jun 23	30 Jun 24	\$0.10 30 Jun 25	Reserves & Resources				Pr	oportion of TF	REO in-situ	
Net Revenue	A\$m	0.0	0.0	83.2	257.4	409.2	Resources	Mt	TREO (%)	P2O5 (%)	Pr6O11	Nd2O3	CeO2	L
- TREO		0.0	0.0	69.9	222.2	360.4	M&I	35.0	2.8	11.6	n/a	n/a	n/a	
NdPr				64.9	206.3	334.8	Inferred	21.0	2.3	10.0	n/a	n/a	n/a	
Other				5.0	15.8	25.7	Total	56.0	2.6	11.0	5.9	20.5	48.7	
- P2O5		0.0	0.0	13.3	35.2	48.7	B		TDEC ""	DOOF (%)				
Total Costs	A\$m	-7.1	-7.4	-59.8	-128.9	-167.7	Reserves	Mt	TREO (%)	P2O5 (%)				
EBITDA - margin	A\$m %	-7.1	-7.4	23.4 28%	128.5 50%	241.5 59%	Nolans	29.5	2.9	13.0	n/a	n/a	n/a	
- margin Depreciation/Amort	% A\$m	-6.7	-20.7	-41.0	50% -52.0	59% -54.7								
Depreciation/Amort EBIT	A\$m A\$m	-6.7 -13.8	-20.7 -28.1	-41.0 - <b>17.6</b>	-52.0 <b>76.5</b>	-54.7 186.8								
Net Interest	A\$m A\$m	-4.8	-28.1 -63.0	-69.3	-88.1	-88.1	Production Summary	Unit	30 Jun 22	30 Jun 23	30 Jun 24	30 Jun 25	30 Jun 26	30 Ju
Norm. Pre-Tax Profit	A\$m	-18.6	-91.1	-86.9	-11.6	98.7	Mill Throughput	Mt	- 30 0 0 11 22	0.24	0.56	0.74	0.88	30 31
Reported Tax Expense	A\$m	0.0	0.0	0.0	0.0	0.0	TREO	Grade		3.2%	3.3%	3.3%	3.0%	
effective rate	%	0.0%	0.0%	0.0%	0.0%	0.0%	Combined Recovery & Payability	%		29.4%	39.1%	48.5%	51.5%	5
Normalised NPAT	A\$m	-13.0	-63.8	-60.8	-8.1	69.1	TREO Production	Tonnes		2.3	7.3	11.8	13.8	
Abnormal Items	A\$m	-5.6	-27.3	-26.1	-3.5	29.6	NdPr Production	Tonnes		0.7	2.2	3.5	4.1	
Reported Profit	A\$m	-18.6	-91.1	-86.9	-11.6	98.7	P2O5	Grade		12.6%	13.2%	13.2%	12.6%	1
Minority	A\$m	0.0	0.0	0.0	0.0	0.0	Combined Recovery & Payability	%		56%	61%	64%	63%	
Profit Attrib	A\$m	-18.6	-91.1	-86.9	-11.6	98.7	Production	Tonnes		17.0	44.9	62.2	70.2	
Balance Sheet	Unit	30 Jun 21	30 Jun 22	30 Jun 23	30 Jun 24	30 Jun 25	Modelled mine Life	yr		38.75	37.75	36.75	35.75	
Cash	A\$m	1404.1	779.0	255.4	159.8	219.2	Modelled mining inventory	Mt		33.8	33.3	32.6	31.8	-
Other Current Assets	A\$m	3.9	4.1	49.9	123.5	176.0	Costs	Unit	30 Jun 22			30 Jun 25	30 Jun 26	30 J
Total Current Assets	A\$m	1408.0	783.1	305.3	283.3	395.1	Cost per milled tonne	\$A/t		247.2	229.6	226.6	225.3	:
Property, Plant & Equip. Exploration	A\$m A\$m	149.4 101.6	682.7 102.2	1081.6 102.8	1102.8 103.4	1095.4 104.0	EBITDA / tonne milled ore	\$A/t \$A/kg NdPr		96.7 87.5	228.8	326.3 47.4	316.3	:
Exploration Investments/other	A\$m A\$m	0.3	0.3	102.8	103.4	0.3	Total cash costs (no credits)	\$A/kg NaPr \$US/kg NdPr		87.5 64.3	59.1 43.7	47.4 35.1	47.9 35.4	
Investments/otner Tot Non-Curr. Assets	A\$m A\$m	0.3 <b>251.3</b>	785.2	1184.7	1206.5	0.3 1199.7	Total cash costs (with credits)	\$US/kg NdPr \$A/kg NdPr		60.7	43.7 35.7	35.1 26.4	35.4 27.3	
Total Assets	A\$m	1659.4	1568.3	1490.1	1489.8	1594.9	out out (will crould)	\$US/kg NdPr		44.6	26.4	19.5	20.2	
Short Term Borrowings	A\$m					-								
Other	A\$m	1.9	1.9	10.6	21.9	28.3								
Total Curr. Liabilities	A\$m	1.9	1.9	10.6	21.9	28.3								
Long Term Borrowings	A\$m	628.7	628.7	628.7	628.7	628.7								
Other	A\$m	0.0	0.0	0.0	0.0	0.0								
Total Non-Curr. Liabil.	A\$m	628.7	628.7	628.7	628.7	628.7								
Total Liabilities	A\$m	630.6	630.7	639.3	650.6	657.0	Dalas Assumuti	I limite	20 1	20 1	20 1	00 105	20 1	20.
Net Assets Net Debt (cash)	A\$m A\$m	1028.8 -775.4	937.6 -150.3	850.8 373.3	<b>839.2</b> 468.9	<b>937.8</b> 409.5	Price Assumptions AUDUSD	Unit A\$/US\$	30 Jun 22 0.71	30 Jun 23 0.74	30 Jun 24 0.74	30 Jun 25 0.74	30 Jun 26 0.74	30 J
Net Debt (cash) Cashflow	Unit	30 Jun 21	30 Jun 22	30 Jun 23	30 Jun 24	30 Jun 25	TREO	US\$/kg	22.6	22.6	22.6	22.6	22.6	
EBITDA	A\$m	-7.1	-7.4	23.4	128.5	241.5	NdPr	US\$/kg	70.0	70.0	70.0	70.0	70.0	
Working Capital	A\$m	-0.1	-0.1	-37.2	-62.3	-46.1	P205	US\$/tonne	580	580	580	580	580	
Operating Cashflow	A\$m	-7.2	-7.6	-13.8	66.2	195.4	Hedging		30 Jun 22			30 Jun 25	30 Jun 26	30 Ju
Income Tax Paid	A\$m	0.0	0.0	0.0	0.0	0.0	Hedges maturing?		No	No	No	No	No	
Interest & Other	A\$m	-4.8	-63.0	-69.3	-88.1	-88.1	Sensitivity Analysis							
Operating Activities	A\$m	-12.0	-70.5	-83.0	-21.9	107.3	Raca Caca			Valuation			F	Y24 EI
Property, Plant & Equip.	A\$m	-159.7	-554.0	-439.9	-73.1	-47.3	Spot Prices		0.	0.145 00 (-100.0%)			7:	<b>128</b> 5.1 (-4
Exploration and Devel.	A\$m	-0.6	-0.6	-0.6	-0.6	-0.6	Spot AUD/USD 0.68, NdPr \$40/kg, P2	O5 \$580/t						
Other	A\$m	0.0	0.0	0.0	0.0	0.0	AUDUSD +/-10%			.00 / 0.39 (-100			/ 157.1 (-18.2	
Investment Activities	A\$m	-160.3	-554.6	-440.5	-73.7	-47.9	P2O5 +/-10%			.15 / 0.11 (19.7			7 / 124.95 (2.	
							Ce Oxide +/-10%			.15 / 0.13 (9.0%			7 / 126.89 (1.	
Borrowings	A\$m	628.7	0.0	0.0	0.0	0.0	NdPr +/-10%			.17 / 0.00 (127.			107.84 (16.1	
Equity or "tbc capital"	A\$m	943.1	0.0	0.0	0.0	0.0	Production +/-10%			.37 / 0.00 (154.			2 / 102.7 (20.0	
Dividends Paid	A\$m	0.0	0.0	0.0	0.0	0.0	Operating Costs +/-10%		0	.04 / 0.25 (-72.5	o% / 68.9%)	110	6.4 / 140.5 (-9	.4% /
Financing Activities	MΦM	1571.8	0.0	0.0	0.0	0.0	Vear Expires No. (m	)	<u>\$m</u>		Avg price		% ord	
Net Cashflow	A\$m	1399.5	-625.1	-523.6	-95.6	59.4	30-Jun-20 0.0	-	0.0		0.00		0%	
Shares	Unit	30 Jun 21	30 Jun 22	30 Jun 23	30 Jun 24	30 Jun 25	30-Jun-21 0.0 30-Jun-22 1.6		0.0		0.00 0.15		0% 0%	
Ordinary Shares - End	m	8434.3	8434.3	8434.4	8434.4	8434.4	30-Jun-22 1.6 30-Jun-23 29.1		3.3		0.15		2%	
Ordinary Shares - End Ordinary Shares - Weighted	m	4664.3	8434.3	8434.3	8434.4	8434.4	30-Jun-23 29.1 30-Jun-24 0.0		0.0		0.00		2% 0%	
Diluted Shares - Weighted	m	4664.3	8434.3	8434.3	8434.4	8434.4	TOTAL 30.7		3.5		0.00		3%	
Ratio Analysis	Unit	30 Jun 21	30 Jun 22	30 Jun 23	30 Jun 24	30 Jun 25	Share Price Valuation (NAV)					Est. A\$m		st. A\$/
Cashflow Per Share	A\$ cps	-0.1	-0.7	-0.8	-1.0	-1.0	100% Nolans (pre-tax NAV at disc. rat	e of 12%)				1367.1		0.1
Cashflow Multiple	x	-62.1	-8.6	-7.8	-6.1	-6.1	Other Asset/Exploration					50.0		0.00
Earnings Per Share	A\$ cps	-0.4	-1.1	-1.0	-0.1	1.2	Hedging					0.0		0.00
Price to Earnings Ratio	x	-16.1	-5.9	-6.2	-46.5	5.5	Corporate Overheads					-48.9		-0.0
Dividends Per Share	AUD	-	-	-	-	-	Net Cash (Debt)					22.1		0.0
Dividend Yield	%	0.0%	0.0%	0.0%	0.0%	0.0%	Tax (NPV future liability)					-126.3		-0.0
Net Debt / Net Debt + Equity	%	-306%	-19%	30%	36%	30%	Expected future franking credits					0.0		0.0
nterest Cover	X e/	na	na	na	0.9	2.1	Options & Other Equity					3.5		0.0
Return on Equity	%	na	na	na	na	7%	Total					1267.5		0.1
										45/00/0000				
								l	ast Updated:	15/06/2020				
Analyst: Trent Barnett +61 8 9268 2805														

Fig. 2: Key assumption	is and risks for vail	иашоп	
Assumption	Risk of not realising assumption	Downside risk to valuation if assumption is incorrect	Comment
Obtaining substantial capital	High	High	Our valuation assumes ARU can obtain the substantial capital for development .
Rising NdPr prices	Moderate to High	High	Appears reasonable, although not conservative
Binding offtakes	Moderate	High	Company requires binding offtakes to secure the financing
Mining licence	Low	High	The project still requires mining license granting
Conclusion	We believe our assump	· ·	t high risk. The most important assumption is that swill increase

Source: Hartleys

## **RISKS**

The key risks for Arafura Resources Ltd (like most mine companies in development) is obtaining the necessary funding to complete the project. Other risks are earnings disappointments given the industry is volatile and earnings can disappoint due to cost overruns, project delays, cost inflation, environmental regulations, plant and mine design mistakes or lower production. Although some earnings disappointments can be short term and are only a timing issue, other disappointments can be materially value destructive and can sometimes overhang stocks for a long period of time (for example metallurgy problems). Such disappointments can be very difficult to predict and share price reactions can be severe and immediate upon disclosure by the company. High financial leverage (if it exists at that time) would add to the problem.

## PRICE TARGET

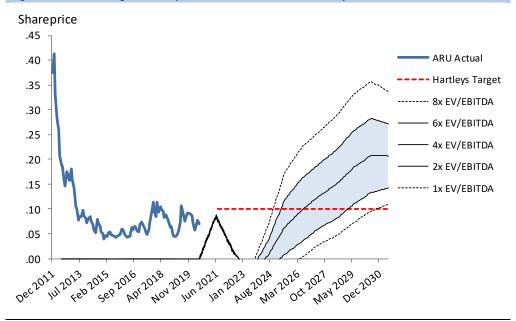
Our new price target is 10cps (unchanged from previous).

Price Target Methodology	Weighting	Spot	12 mth out
NPV12 base case	20%	\$0.15	\$0.15
NPV12 base case at spot commodity and fx prices	25%	\$0.00	\$0.00
NPV8 base case	6%	\$0.72	\$0.74
NPV 12 NdPr price US\$90/kg	1%	\$1.50	\$1.60
3x EV/EBITDA five years ahead	5%	\$0.00	\$0.04
Net cash backing	43%	\$0.02	\$0.02
Risk weighted composite		\$0.10	
12 Months Price Target		\$0.10	
Shareprice - Last		\$0.064	
12 mth total return (% to 12mth target + dividend)		56%	

Source: Hartleys Research

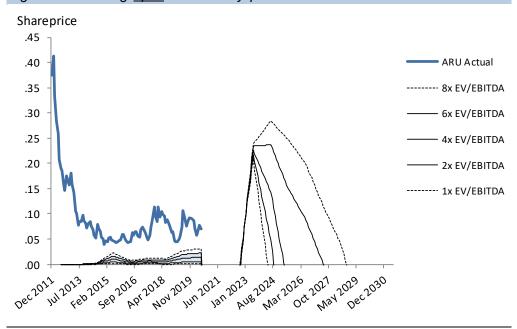
## **EV/EBITDA BANDS**

Fig. 3: Using <u>Hartleys base case commodity</u> forecasts



Source: Hartleys Estimates, IRESS

Fig. 4: Using spot commodity prices



Source: Hartleys Estimates

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## **Hartleys Recommendation Categories**

Duy Shale price appreciation anticipated.	Buy	Share price appreciation anticipated.
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Accumulate Share price appreciation anticipated but the risk/reward is

not as attractive as a "Buy". Alternatively, for the share price to rise it may be contingent on the outcome of an uncertain or distant event. Analyst will often indicate a

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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