BELL POTTER

Analyst Lafitani Sotiriou 613 9235 1668

Authorisation

Jonathan Snape 613 9235 1601

Recommendation

Buy (unchanged) Price \$23.90Target (12 months) \$29.28 (previously \$28.02)

GICS Sector

Software and Services

Expected Return	
Capital growth	22.5%
Dividend yield	0.0%
Total expected return	22.5%
Company Data & Ratio	s
Enterprise value	\$5.3bn
Market cap	\$5.4bn
Issued capital	236.7m
Free float	82%
Avg. daily val. (52wk)	\$36.3m
12 month price range	\$7.74-\$28.70

Price Performance								
	(1m)	(3m)	(12m)					
Price (A\$)	27.65	19.57	7.70					
Absolute (%)	-16.02	18.65	201.56					
Rel market (%)	-16.88	15.36	195.05					

Absolute Price



SOURCE: IRESS

BELL POTTER SECURITIES LIMITED 25 006 390 772 AFSL 243480

Afterpay Touch Group (APT)

US Growth Accelerating

US powering away, UK up and running

APT has delivered a solid trading update with continued momentum in the business. Of particularly note, the US customer growth rate appears to be accelerating, with around 130,000 added per a month in January / February, accelerating to ~170,000 per month in March - May. This places APT on track to add a full million users in the US during the 2H19 period, with our estimate for it to close with 1.7m active US users at the end of June. Further, the UK business has launched under the brand Clearpay, with around 50 merchants integrated or in the process of launching.

Australia vs US average sales

The A&NZ average spend in 2H19 is tracking at around \$852 per user, whereas the US is at around \$567. The US average spend is similar to where A&NZ started, but we expect this to increase as more merchants are added, and as the US moves to instore to complement the online experience.

AUSTRAC reviewing APT and other international platforms

APT noted in its release that AUSTRAC has raised some issues in relation to its AML/CTF compliance. No specifics have been raised, however we do note that AUSTRAC was guoted in the press earlier this week noting it intends on reviewing a range of international platforms (including Facebook) for compliance.

Earnings revisions

Following APT's trading update, we have upgraded our underlying active customer estimates by between 2.0 - 2.9%, while we have upgraded our underlying EPS by 1.2%, 7.3% and 4.8% for FY19, FY20 and FY21 respectively. The earnings revision is driven by higher customer growth and Total Transaction Value (TTV) estimates. We note that our CLV valuation methodology prioritises customer growth, particularly where gross margin and retention rates are healthy. Following these changes our revised Price Target is \$29.28 per share (previously \$28.02), with our Buy recommendation remaining unchanged.

Earnings Forecast				
Year end June 30	2018	2019e	2020e	2021e
Year end June 30	2018	2019e	2020e	2021e
Sales revenue (\$m)	113.9	215.2	413.0	668.2
EBTDA (Adjusted) (A\$m)	27.7	14.1	58.1	118.7
NPAT (reported) (A\$m)	-9.0	-43.6	14.3	55.1
NPAT (adjusted) (A\$m)	8.9	-9.7	34.3	75.1
EPS (adjusted and fully diluted) (cps)	4.0	-3.9	13.6	29.8
EPS growth (%)	Large	Large	Large	118.8%
Adjusted PER (x)	600.8	-611.7	175.3	80.1
Price/CF (x)	-44.0	-44.6	280.1	97.7
EV/EBITDA (x)	208.2	409.0	99.1	48.5
Dividend (¢ps)	0	0	0	0
Franking (%)	na	na	na	na
Yield (%)	0.0%	0.0%	0.0%	0.0%

URCE: BELL POTTER S

DISCLAIMER: THIS REPORT MUST BE READ WITH THE DISCLAIMER ON PAGE 8 THAT FORMS PART OF IT DISCLOSURE: BELL POTTER SECURITIES ACTED AS CO-MANAGER OF THE \$117M AUGUST 2018 PLACEMENT AND RECEIVED FEES FOR THAT SERVICE.

US Sales and AUSTRAC

US Sales should follow similar path to A&NZ experience

The average sales per customer in A&NZ continues to accelerate, where in 1H16 it was tracking at around \$600 during the period, however this has expanded each year, where we now forecast over \$900 for 1H20. This expansion is driven by an increase in merchants, new verticals and from the ability to utilise Afterpay in-store. We anticipate the US following a similar trajectory, with 2H19e for the average customer spend to be around \$600.

AUSTRAC

APT noted in its release that AUSTRAC has raised some issues in relation to its AML/CTF compliance. No specifics have been raised, however we do note that AUSTRAC was quoted in the press earlier this week noting it intends on reviewing a range of international platforms (including Facebook) for compliance.

I quote from the AFR James Eyers 4 June 2019, Banks Face More Money Laundering Cases:

"AUSTRAC's operating budget increased \$12 million to \$80.5 million in 2018-19. Mr Soros said AUSTRAC did not have any target for the number of legal cases this would fund.

The regulator is also focusing on global technology companies to ensure their new payments platforms are not being used by criminals.

Mr Soros said AUSTRAC was broadly pro-innovation and "we definitely don't want to stifle new entrants". However, he called out Chinese payment platforms Alipay and WeChat Pay, as well as Facebook, as examples of technology companies it wants to work more closely with."

Therefore, we see it as logical Afterpay is included in the review, but as noted by AUSTRAC, it doesn't want to stifle new entrants and is pro-innovation. Further, APT has committed to an external review of its processes to ensure full compliance.

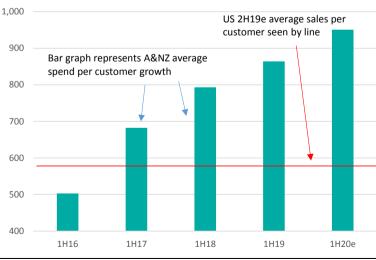


Figure 1 - A&NZ Average Sales per Customer vs US 2H19e (\$0.00)

SOURCE: COMPANY DATA AND BELL POTTER SECURITIES ESTIMATES

Key Assumptions

Key Assumptions – Increased Disclosure

Following new information from APT in relation to US sales, and given the different levels of maturity (A&NZ vs US), we have split our forecast for Transaction Value as noted below.

The three variables we are most interested in

The risk to our valuation is primarily driven by the following three factors:

Customer Growth Rate;

Net-Margin Trajectory; and

Attrition Rate of Customers.

Figure 2 - Key Assumptio	ns Afterpay					
Active Customers (m)	1H19	2H19e	1H20e	2H20e	1H21e	2H21e
ANZ	2.5	2.9	3.3	3.6	3.9	4.2
US	0.7	1.7	2.8	4.0	5.2	6.4
UK	0.0	0.0	0.2	0.5	0.9	1.3
Total	3.2	4.6	6.3	8.1	10.0	11.9
Margin (%)	1H19	2H19e	1H20e	2H20e	1H21e	2H21e
Merchant Fee	3.7%	3.7%	3.7%	3.7%	3.7%	3.7%
NTL	-0.6%	-0.6%	-0.6%	-0.6%	-0.6%	-0.6%
Processing and Financing	-1.1%	-1.1%	-1.2%	-1.2%	-1.2%	-1.2%
Net-margin	2.1%	2.1%	2.0%	2.0%	2.0%	2.0%
Transaction Value (\$m)	1H19	2H19e	1H20e	2H20e	1H21e	2H21e
ANZ	2,009	2,300	2,947	3,233	3,921	4,175
US	264	680	1,706	2,380	3,836	4,466
UK	0	6	65	182	365	542
Total	2,273	2,986	4,717	5,795	8,122	9,183

SOURCE: COMPANY DATA AND BELL POTTER SECURITIES ESTIMATES

Valuation and Changes

Valuation

We utilise a Sum-of-the-Parts Valuation, with the key Afterpay component relying on a Customer Lifetime Value (CLV) based methodology. The key assumptions in our valuation can be found in the table below. Our total APT valuation is \$29.28 per share (previously \$28.02), which forms the basis of our Price Target, and is supportive of our Buy recommendation on the stock.

Figure 3 - Valuation	
Sum-of-Parts Valuation	
Afterpay Customer Lifetime Value based methodolog	SA SA
Discount rate (%)	10.1%
Retention rate estimate (%)	85%
Weighted three year customer numbers*	5,320,000
Customer annual spend (\$0.00)	1,476
Gross margin (%)	1.91%
Afterpay CLV based valuation (\$m)	7,566
Net-cash (\$m)	-18
Pay Now valuation	129
Corporate	-300
Total APT value (\$m)	7,377
Fully diluted share count (m)	252
Valuation per share (\$0.00)	29.28

* (50% weighting to Financial Year 0, 35% to FY1e, and 15% to FY2e) SOURCE: BELL POTTER SECURITIES ESTIMATES

Customer numbers and earnings revisions

Following APT's trading update, we have upgraded our underlying active customer estimates by between 2.0 – 2.9% over the forward estimates, while we have upgraded our underlying EPS by 1.2%, 7.3% and 4.8% for FY19, FY20 and FY21 respectively. The earnings revision is driven by higher customer growth and Total Transaction Value (TTV) estimates. We note that our CLV valuation methodology prioritises customer growth, particularly where gross margin and retention rates are healthy. Following these changes our revised Price Target is \$29.28 per share (previously \$28.02), with our Buy recommendation remaining unchanged.

Figure 4 - Earnings revisions										
Earnings Revisions	FY19e (new)	FY19e (previous)	Change (%)	FY20e (new)	FY20e (previous)	Change (%)	FY21e (new)	FY21e (previous)	Change (%)	
Customer numbers	4,630,000	4,500,000	2.9%	8,130,000	7,900,000	2.9%	11,930,000	11,700,000	2.0%	
EPS (Cash) (cps)	-3.9	-4.0	1.2%	13.6	12.7	7.3%	29.8	28.5	4.8%	

SOURCE: BELL POTTER SECURITIES ESTIMATES

BELL POTTER

Interim earnings

Figure 5 - Interim earnings													
INTERIM INCOME STATEMENT													
Y/e June 30 (\$m)	2017°	1H18	2H18	2018	1H19	2H19e	2019e	1H20e	2H20e	2020e	1H21e	2H21e	2021e
Total operating revenue	22.9	49.9	63.9	113.9	94.1	121.1	215.2	186.2	226.8	413.0	314.1	354.1	668.2
Net-transaction loss	-3.1	-6.7	-2.5	-9.2	-13.6	-17.8	-31.4	-28.2	-34.7	-62.9	-48.6	-54.9	-103.5
Total other variable transaction costs	5.5	2.0	4.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Operating expenses	8.6	16.0	26.7	42.7	43.0	60.9	103.9	74.1	84.0	158.1	109.5	121.2	230.7
Adjusted EBTDA	3.9	12.3	15.3	27.7	8.5	5.5	14.1	23.3	34.8	58.1	54.8	64.0	118.7
Depreciation	0.0	0.0	1.8	1.8	0.9	0.9	1.7	0.9	0.9	1.7	0.9	0.9	1.7
Amortisation	2.7	4.8	10.7	15.5	10.3	11.0	21.3	11.0	11.0	22.0	11.0	11.0	22.0
EBT	1.2	7.5	2.8	10.3	-2.6	-6.3	-8.9	11.4	22.9	34.3	42.9	52.1	95.0
Operating income tax expense	0.3	1.5	-0.1	1.4	0.7	0.0	0.7	0.0	0.0	0.0	5.8	14.1	19.9
Underlying NPAT	0.9	6.1	2.9	8.9	-3.3	-6.3	-9.7	11.4	22.9	34.3	37.1	38.0	75.1
Share based payments	1.8	5.3	11.1	16.4	18.1	15.0	33.1	10.0	10.0	20.0	10.0	10.0	20.0
Significant items (pre-tax)	-15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Significant tax	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Signficant items (after tax)	-10.6	-1.3	0.3	-1.0	-0.8	0.0	-0.8	0.0	0.0	0.0	0.0	0.0	0.0
R&D grant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reported profit (A\$m)	-9.6	-0.5	-8.5	-9.0	-22.2	-21.3	-43.6	1.4	12.9	14.3	27.1	28.0	55.1
Loan receivables													
Y/e June 30 (\$m)	2017e	1H18	2H18	2018	1H19	2H19e	2019e	1H20e	2H20e	2020e	1H21e	2H21e	2021e
Gross loan receivables	103.7	199.0	274.5	274.5	380.5	522.6	522.6	837.3	1043.1	1043.1	1502.6	1744.8	1744.8
Closing provisions for bad debts	5.3	13.6	15.0	15.0	28.2	29.9	29.9	47.2	58.0	58.0	81.2	91.8	91.8
Net customer loan receivables	98.4	185.3	259.5	259.5	352.4	492.7	492.7	790.2	985.2	985.2	1421.3	1652.9	1652.9
Afterpay estimates													
Y/e June 30 (\$m)	2017e	1H18	2H18	2018	1H19	2H19e	2019e	1H20e	2H20e	2020e	1H21e	2H21e	2021e
Merchant fee revenue (\$m)		37.1	51.2	88.3	85.2	111.9	197.1	176.8	217.2	394.0	304.4	344.2	648.6
Processing and Financing cost (\$m)		6.9	10.8	17.6	24.8	32.6	57.5	56.3	69.1	125.4	96.9	109.5	206.4
Gross Profit (\$m)		30.2	40.5	70.7	60.3	79.3	139.6	120.5	148.1	268.6	207.5	234.6	442.1
EBTDA		14.9	19.9	34.9	22.3	24.1	46.4	45.3	60.1	105.4	88.4	102.2	190.6
Buy Now estimates													
Y/e June 30 (\$m)	2017e	1H18	2H18	2018	1H19	2H19e	2019e	1H20e	2H20e	2020e	1H21e	2H21e	2021e
Revenue		12.9	12.7	25.6	8.9	9.2	18.1	9.4	9.6	19.0	9.7	9.9	19.6
Cost of sales		6.2	4.4	10.6	4.1	4.2	8.3	4.2	4.3	8.5	4.4	4.4	8.8
Net-revenue		6.7	8.3	15.0	4.8	5.0	9.8	5.1	5.3	10.4	5.4	5.5	10.9
EBTDA, Adj		4.6	2.7	7.2	2.5	2.7	5.2	2.8	2.9	5.7	3.0	3.0	6.0
Corporate Estimates													
Y/e June 30 (\$m)	2017e	1H18	2H18	2018	1H19	2H19e	2019e	1H20e	2H20e	2020e	1H21e	2H21e	2021e
Total underlying corporate expenses (\$m)		7.2	7.3	14.5	16.3	21.3	37.5	24.8	28.2	53.0	36.5	41.3	77.8
°Note: Figures prior to/including 2017 ar	e reflective	of Afterpay	only. 201	L8 onwards	reflects th	e combin	ed Afterpa	y Touch Gro	oup				

SOURCE: COMPANY DATA AND BELL POTTER SECURITIES ESTIMATES

Company description

Afterpay Touch Group (APT) is an emerging financial technology company that enables retail merchants to offer customers the ability to buy goods and services on a simple instalment plan with an easy and non-invasive application process, and at no additional cost to the end-customer. It is the combined entity of Afterpay (AFY), which was founded in February 2014 by Anthony Eisen and Nicholas Molnar. And Touchcorp (TCH) the company that developed the payment technology.

Risks to investment thesis

Key risks for the stock include although are not limited to:

- **Merger/Integration risk** Following the completion of the AFY/TCH merger, the combined group may fail to achieve the anticipated benefits, or may incur unforeseen costs in connection with the integration of both businesses which may have a material impact on the group's earnings;
- Credit risk APT extends credit to end-customers via its receivables book for which the merchants pay a fee. While this is not a traditional lending model, the company is still exposed to the risk of default or a loss of principle. Therefore, the ability of APT's technology to adequately prevent and recover bad debt is crucial to the company's ongoing viability;
- Funding risk APT currently funds its loan book through a combination of equity and debt, having now secured a debt financing agreement. APT's growth may be limited if it is unable to expand its receivables book through securing further increases in debt financing facilities or raise additional equity;
- Key person risk Similar to other small capitalised stocks, the loss of any key
 personnel may be detrimental to APT;
- Competition risk APT has first mover advantage offering reverse lay-by within Australia, however there is significant risk of new entrants and increased competition, particularly from established foreign companies;
- **Technology risk** APTs algorithms assess an end-clients repayment capabilities and the risk of fraud automatically and in real-time. APT relies on its technology to process transactions and store client data. Any failure or breach of the technology could result in an interruption of service, or the loss/theft of private data and information;
- Regulation & licensing risk While APT does not currently require an Australian Credit Licence (ACL), it is still subject to a range of legal and regulatory requirements. Any changes to regulations, policies, or laws could adversely impact the efficacy of AFY's business model;
- Fraud risk APT guarantees payment to merchants and is therefore exposed to the risk of fraudulent end-customers. Failures in APT's algorithms to prevent fraud would adversely affect APT's performance;
- Market risk A prolonged recession, economic crisis/shock, or other factors that may lead to a sustained weak market environment have the ability to increase the levels of defaults and adversely affect the earnings potential of the company. In addition, being a listed stock, the share price may be subject to volatility and fluctuations in price; and
- Operational risk The operation APT relies on internal policies and technologies in relation to lending practices and anti-fraud. Any failure in internal controls could be harmful to AFY's performance.

BELL POTTER

Afterpay Touch Group as at 6 June 2019

Recommendation Price

Price Target (A\$)

Target (12 months)

Table 1 - Financial summary

Buy \$23.90 \$29.28

23.90

Share Price (A\$)

INCOME STATEMENT					
Y/e June 30 (\$m)	2017°	2018	2019e	2020e	2021e
Total operating revenue	22.9	113.9	215.2	413.0	668.2
Cost of sales	0.0	28.2	65.8	133.9	215.2
Gross profit	0.0	85.7	149.4	279.0	453.0
Net-transaction loss	-3.1	-9.2	-31.4	-62.9	-103.5
Other variables	5.5	6.1	0.0	0.0	0.0
Operating expenses	8.6	42.7	103.9	158.1	230.7
Adjusted EBTDA	3.9	27.7	14.1	58.1	118.7
Depreciation	0.0	1.8	1.7	1.7	1.7
Amortisation	2.7	15.5	21.3	22.0	22.0
EBT	1.2	10.3	-8.9	34.3	95.0
Operating income tax expense/(benefit)	0.3	1.4	0.7	0.0	19.9
Underlying NPAT	0.9	8.9	-9.7	34.3	75.1
Share based payments	1.8	16.4	33.1	20.0	20.0
Significant items (pre-tax)	-15.2	0.0	0.0	0.0	0.0
Significant tax	4.6	0.0	0.0	0.0	0.0
Signficant items (after tax)	-10.6	-1.0	-0.8	0.0	0.0
Reported profit (A\$m)	-9.6	-9.0	-43.6	14.3	55.1

CASHFLOW					
Y/e June 30 (\$m)	2017°	2018	2019e	2020e	2021e
EBITDA	3.9	27.7	14.1	58.1	118.7
Change in provisions	1.3	4.4	0.3	3.1	5.2
Working capital changes	-54.6	-121.7	-112.7	-41.0	-44.3
Interest earned	0.1	0.0	0.3	0.0	0.0
Taxpaid	-0.8	0.1	0.0	0.0	-19.9
Associated company dividends	0.0	0.0	0.0	0.0	0.0
Other operating items	-1.6	-23.5	-26.5	0.0	0.0
Operating cash flow	-51.6	-113.1	-124.5	20.2	59.8
Stay in business capex	-0.1	-2.5	-2.6	-1.7	-1.7
Growth capex & acquisitions	-17.6	-15.8	-20.8	-22.0	-22.0
Disposals	-3.0	-5.1	0.0	0.0	0.0
Investing cashflow	-20.6	-23.3	-23.5	-23.7	-23.7
Dividends	0.0	0.0	0.0	0.0	0.0
Other investing items	0.0	0.0	-11.0	-20.0	-20.0
Share issues/(buy backs)	34.4	1.6	142.8	0.0	0.0
Other	8.1	142.6	39.1	0.0	0.0
Financing cash flow	42.5	144.2	171.0	-20.0	-20.0
Increase in cash/(debt)	-29.7	7.8	23.0	-23.5	16.1
Cash at end of period	29.6	25.5	48.5	24.1	40.2

BALANCE SHEET					
Y/e June 30 (\$m)	2017	2018	2019e	2020e	2021e
Cash	29.6	25.5	48.5	24.1	40.2
Loan receivables	98.4	239.1	522.6	1043.1	1744.8
Other receviables	11.9	17.3	29.1	54.4	85.0
PPE	4.5	4.0	5.2	5.2	5.2
Intangibles	52.9	48.9	46.3	46.3	46.3
Other	43.0	57.5	89.5	117.6	151.4
Total assets	240.3	392.2	743.2	1292.9	2075.0
Payables	22.8	42.9	32.9	45.4	65.6
Funding facilities	46.7	161.6	374.2	894.8	1596.4
Interest bearing liabilities ex SPV	0.0	0.0	0.0	0.0	0.0
Provisions	3.3	2.3	6.2	9.3	14.4
Other	7.4	1.9	7.6	7.6	7.6
Total liabilities	80.2	208.7	422.9	959.1	1686.0
Contributed equity	171.4	192.6	356.4	356.4	356.4
Total shareholders funds	160.1	183.6	319.5	333.8	389.0

°Note: Figures prior to/including 2017 are reflective of Afterpay only. 2018 onwards reflects the combined Afterpay Touch Group. This excludes the balance sheet which is reflective of a pro forma estimate in 2017. Further disclosure changed from 2018 onwards.

SOURCE: BELL POTTER SECURITIES ESTIMATES

	The larger (Ap)			20.00			
	Recommendation:	Buy	N	Market Cap (A\$m)			
VALUATION DATA							
Y/e June 30 (\$m)		2017°	2018	2019e	2020e	2021e	
Adjusted NPAT (\$m)		0.9	8.9	-9.7	34.3	75.1	
Adjusted EPS (fully d	liluted) (c)	0.5	4.0	-3.9	13.6	29.8	
EPS growth (%)		na	large	large	large	119%	
Diluted adjusted P/E	ratio (x)	na	600.8	-611.7	175.3	80.1	
CFPS (c)		-29.2	-54.3	-53.6	8.5	24.5	
Price/CF (x)		-81.8	-44.0	-44.6	280.1	97.7	
DPS (c)		na	0.0	0.0	0.0	0.0	
Yield (%)		0.0%	0.0%	0.0%	0.0%	0.0%	
Franking (%)		na	na	na	na	na	
EV/EBITDA (x)		1459.6	208.2	409.0	99.1	48.5	
Price/book (x)		28.8	29.3	18.5	18.0	15.	
NTA/share (\$)		0.83	0.82	1.29	1.33	1.54	
PROFITABILITY RATI	OS						
Y/e June 30 (\$m)		2017°	2018	2019e	2020e	2021	
EBIT/sales (%)		5.4%	9.1%	-4.2%	8.3%	14.2%	
Return on assets (%))	0.7%	2.8%	-1.7%	3.4%	4.5%	
Return on equity (%)		1.0%	5.2%	-3.8%	10.5%	20.8%	
Dividend cover (x)		na	na	na	na	na	
Effective tax rate (%)		30.0%	13.5%	8.1%	0.0%	20.9%	
LIQUIDITY AND LEVE	RAGE RATIOS						
Y/e June 30 (\$m)		2017	2018	2019e	2020e	20210	
Net debt/(cash) (\$m)		17.1	136.1	325.7	870.7	1,556.2	
Net debt/(cash) (ex S	PV)*	-29.6	-25.5	-48.5	-24.1	-40.2	
Net debt/equity (%)		10.7%	74.1%	101.9%	260.8%	400.1%	
net debuequity (70)							

29.28

Underlying EBITDA*					
Afterpay EBITDA		34.9	46.4	105.4	190.6
Buy Now EBITDA		7.2	5.2	5.7	6.0
W/A shares on issue	176.5	208.2	232.1	236.9	244.6

Recommendation structure

Buy: Expect >15% total return on a 12 month view. For stocks regarded as 'Speculative' a return of >30% is expected.

Hold: Expect total return between -5% and 15% on a 12 month view

Sell: Expect <-5% total return on a 12 month view

Speculative Investments are either start-up enterprises with nil or only prospective operations or recently commenced operations with only forecast cash flows, or companies that have commenced operations or have been in operation for some time but have only forecast cash flows and/or a stressed balance sheet.

Such investments may carry an exceptionally high level of capital risk and volatility of returns.

Research Team

TS LimHead of Research612 8224 2810IslimIndustrialsJames FiliusIndustrials613 9235 1612jfiliusSam HaddadIndustrials612 8224 2819shaddadAlex McLeanIndustrials613 9235 1813hmurrayHamish MurrayIndustrials613 9235 1813hmurrayChris SavageIndustrials613 9235 1813hmurrayJonathan SnapeIndustrials613 9235 1601jsnapeDamien WilliamsonIndustrials613 9235 1601jsnapeHealthcare/Biotech </th <th>Staff Member</th> <th>Title/Sector</th> <th>Phone</th> <th>@bellpotter.com.au</th>	Staff Member	Title/Sector	Phone	@bellpotter.com.au
James FiliusIndustrials613 9235 1612jfiliusSam HaddadIndustrials612 8224 2819shaddadAlex McLeanIndustrials613 8224 2886amcleanHamish MurrayIndustrials613 9235 1813hmurrayChris SavageIndustrials613 9235 1813hmurrayChris SavageIndustrials613 9235 1601jsnapeJonathan SnapeIndustrials613 9235 1958dwilliamsonDamien WilliamsonIndustrials613 9235 1958dwilliamsonHealthcare/Biotech </td <td>TS Lim</td> <td>Head of Research</td> <td>612 8224 2810</td> <td>tslim</td>	TS Lim	Head of Research	612 8224 2810	tslim
Sam HaddadIndustrials612 8224 2819shaddadAlex McLeanIndustrials613 8224 2886amcleanHamish MurrayIndustrials613 9235 1813hmurrayChris SavageIndustrials613 9235 1813hmurrayChris SavageIndustrials613 9235 1813hmurrayJonathan SnapeIndustrials613 9235 1601jsnapeDamien WilliamsonIndustrials613 9235 1958dwilliamsonHealthcare/BiotechJohn HesterHealthcare/Biotech612 8224 2871jhesterTanushree JainHealthcare/Biotech612 8224 2849tnjainFinancials </td <td>Industrials</td> <td></td> <td></td> <td></td>	Industrials			
Alex McLeanIndustrials613 8224 2886amcleanHamish MurrayIndustrials613 9235 1813hmurrayChris SavageIndustrials613 9235 1813hmurrayChris SavageIndustrials613 9235 1813jsnapeJonathan SnapeIndustrials613 9235 1601jsnapeDamien WilliamsonIndustrials613 9235 1958dwilliamsonHealthcare/BiotechJohn HesterHealthcare/BiotechTanushree JainHealthcare/Biotech612 8224 2871jhesterTS LimBanks/Regionals612 8224 2810tslimLafitani SotiriouDiversified Financials/Fintech613 9235 1668IsotiriouPeter ArdenResources	James Filius	Industrials	613 9235 1612	jfilius
Hamish MurrayIndustrials613 9235 1813hmurrayChris SavageIndustrials613 9235 1813hmurrayJonathan SnapeIndustrials613 9235 1601jsnapeDamien WilliamsonIndustrials613 9235 1958dwilliamsonDamien WilliamsonIndustrials612 8224 2871jhesterJohn HesterHealthcare/Biotech612 8224 2871jhesterTanushree JainHealthcare/Biotech612 8224 2871jhesterTS LimBanks/Regionals612 8224 2810tslimLafitani SotiriouDiversified Financials/Fintech613 9235 1668IsotiriouResources </td <td>Sam Haddad</td> <td>Industrials</td> <td>612 8224 2819</td> <td>shaddad</td>	Sam Haddad	Industrials	612 8224 2819	shaddad
Chris SavageIndustrialsCirc Fore TableKinneryChris SavageIndustrials612 8224 2835csavageJonathan SnapeIndustrials613 9235 1601jsnapeDamien WilliamsonIndustrials613 9235 1958dwilliamsonHealthcare/Biotech </td <td>Alex McLean</td> <td>Industrials</td> <td>613 8224 2886</td> <td>amclean</td>	Alex McLean	Industrials	613 8224 2886	amclean
Jonathan SnapeIndustrials613 9235 1601jsnapeDamien WilliamsonIndustrials613 9235 1958dwilliamsonHealthcare/Biotech </td <td>Hamish Murray</td> <td>Industrials</td> <td>613 9235 1813</td> <td>hmurray</td>	Hamish Murray	Industrials	613 9235 1813	hmurray
Damien WilliamsonIndustrials613 9235 1958dwilliamsonHealthcare/Biotech612 8224 2871jhesterJohn HesterHealthcare/Biotech612 8224 2849tnjainTanushree JainHealthcare/Biotech612 8224 2849tnjainFinancialsTStrinou512 8224 2810tslimTS LimBanks/Regionals612 8224 2810tslimLafitani SotiriouDiversified Financials/Fintech613 9235 1668IsotiriouResourcesFinancialsFinancialsFinancialsPeter ArdenResources613 9235 1833parden	Chris Savage	Industrials	612 8224 2835	csavage
Healthcare/BiotechHealthcare612 8224 2871jhesterJohn HesterHealthcare/Biotech612 8224 2849tnjainTanushree JainHealthcare/Biotech612 8224 2849tnjainFinancialsTStrinoustrinouTS LimBanks/Regionals612 8224 2810tslimLafitani SotiriouDiversified Financials/Fintech613 9235 1668IsotiriouResourcesFFFPeter ArdenResources613 9235 1833parden	Jonathan Snape	Industrials	613 9235 1601	jsnape
John HesterHealthcare612 8224 2871jhesterTanushree JainHealthcare/Biotech612 8224 2849tnjainFinancialsTS LimBanks/Regionals612 8224 2810tslimLafitani SotiriouDiversified Financials/Fintech613 9235 1668IsotiriouResourcesEisenEisenEisenPeter ArdenResources613 9235 1833parden	Damien Williamson	Industrials	613 9235 1958	dwilliamson
Tanushree JainHealthcare/Biotech612 8224 2849trijainFinancialsTS LimBanks/Regionals612 8224 2810tslimLafitani SotiriouDiversified Financials/Fintech613 9235 1668IsotiriouResourcesPeter ArdenResourcesBanks/Regionals613 9235 1833parden	Healthcare/Biotech			
Financials612 8224 2810tslimTS LimBanks/Regionals612 8224 2810tslimLafitani SotiriouDiversified Financials/Fintech613 9235 1668IsotiriouResourcesPeter ArdenResources613 9235 1833parden	John Hester	Healthcare	612 8224 2871	jhester
TS LimBanks/Regionals612 8224 2810tslimLafitani SotiriouDiversified Financials/Fintech613 9235 1668IsotiriouResourcesEiseEiseEisePeter ArdenResources613 9235 1833parden	Tanushree Jain	Healthcare/Biotech	612 8224 2849	tnjain
Lafitani SotiriouDiversified Financials/Fintech613 9235 1668IsotiriouResourcesPeter ArdenResources613 9235 1833parden	Financials			
Resources Peter Arden Resources 613 9235 1833 parden	TS Lim	Banks/Regionals	612 8224 2810	tslim
Peter Arden Resources 613 9235 1833 parden	Lafitani Sotiriou	Diversified Financials/Fintech	613 9235 1668	Isotiriou
	Resources			
David Coates Resources 612 8224 2887 dcoates	Peter Arden	Resources	613 9235 1833	parden
	David Coates	Resources	612 8224 2887	dcoates
Stuart Howe Resources 613 9235 1856 showe	Stuart Howe	Resources	613 9235 1856	showe

Bell Potter Securities Limited

ACN 25 006 390 7721 Level 38, Aurora Place 88 Phillip Street, Sydney 2000 Telephone +61 2 9255 7200 www.bellpotter.com.au

The following may affect your legal rights. Important Disclaimer:

This document is a private communication to clients and is not intended for public circulation or for the use of any third party, without the prior approval of Bell Potter Securities Limited. In the USA and the UK this research is only for institutional investors. It is not for release, publication or distribution in whole or in part to any persons in the two specified countries. In Hong Kong this research is being distributed by Bell Potter Securities (HK) Limited which is licensed and regulated by the Securities and Futures Commission, Hong Kong. This is general investment advice only and does not constitute personal advice to any person. Because this document has been prepared without consideration of any specific client's financial situation, particular needs and investment objectives ('relevant personal circumstances'), a Bell Potter Securities Limited investment adviser (or the financial services licensee, or the representative of such licensee, who has provided you with this report by arrangement with Bell Potter Securities Limited) should be made aware of your relevant personal circumstances and consulted before any investment decision is made on the basis of this document.

While this document is based on information from sources which are considered reliable, Bell Potter Securities Limited has not verified independently the information contained in the document and Bell Potter Securities Limited and its directors, employees and consultants do not represent, warrant or guarantee, expressly or impliedly, that the information contained in this document is complete or accurate. Nor does Bell Potter Securities Limited accept any responsibility for updating any advice, views opinions, or recommendations contained in this document or for correcting any error or omission which may become apparent after the document has been issued

Except insofar as liability under any statute cannot be excluded. Bell Potter Securities Limited and its directors, employees and consultants do not accept any liability (whether arising in contract, in tort or negligence or otherwise) for any error or omission in this document or for any resulting loss or damage (whether direct, indirect, consequential or otherwise) suffered by the recipient of this document or any other person.

Disclosure of interest:

Bell Potter Securities Limited, its employees, consultants and its associates within the meaning of Chapter 7 of the Corporations Law may receive commissions, underwriting and management fees from transactions involving securities referred to in this document (which its representatives may directly share) and may from time to time hold interests in the securities referred to in this document.

Lafitani Sotiriou, authoring analyst, holds long positions in APT

Disclosure: Bell Potter Securities acted as co-manager of the \$117m August 2018 placement and received fees for that service.

ANALYST CERTIFICATION

Each research analyst primarily responsible for the content of this research report, in whole or in part, certifies that with respect to each security or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about those securities or issuers and were prepared in an independent manner and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed by that research analyst in the research report.

BELL POTTER