



Total Brain Limited

Completes \$14m institutional placement

Total Brain (ASX:TTB) is the developer of a neuroscience-based mental health & fitness platform powered by the largest standardized neuroscientific database in the world formed over almost two decades and with \$50m of R&D funding. Total Brain has just completed a \$14m share placement at \$0.046//share with existing and new institutional investors. Shareholders will be asked to ratify \$5.9m of the issue at a forthcoming extraordinary general meeting. TTB intends to use the funds to advance sales and marketing initiatives, product development and deployment and general working capital. The capital raise follows closely on the recently announced deal that TTB has partnered with Vault Intelligence (ASX:VLT) to deliver the Total Brain platform to Vault's Solo solution. The move will bolster Solo's ability to identify and manage risk through Total Brain's mental health and fitness assessment and screening functionality and is the first step in a potentially deeper relationship between the two companies. Our DCF valuation has incorporated the placement and is now \$143.6m (previously \$141.3m) or \$0.13/share (previously \$0.15/share).

Business model

Total Brain operates a subscription as a service (SaaS) model for its mental health and fitness platform. The science behind the platform has been developed over almost two decades with input from the leading academic institutions in the field. This has generated a proprietary neuroscientific database of scale which underpins the scientific validation that differentiates Total Brain from other brain training and wellness applications. The app, promoted by affinity partners, assesses the four core brain capacities (emotion, feeling, cognition, self-control), pre-screens seven common mental health conditions and delivers personalised brain and mind/body training.

Share placement, Vault Solo partnership, Q1 FY20 result

Total Brain has received significant institutional support with its \$14m placement with 10 new and existing shareholders subscribing for the issue, including Platinum Asset Management and Regal Funds Management. The funds will be used to underpin the company's sales and marketing and product development which is entering a new phase following the IBM Thrive 360° partnership and the recently announced upsell and revenue sharing partnership with Vault Intelligence (ASX:VLT), a company which RaaS also covers. Total Brain also recently announced Q1 FY20 cash receipts of \$1.047m and cash burn of \$2.4m for the quarter. Cash at September 30 was \$2.95m. The company anticipates Q2 cash expenditure of \$2.76m. This is in line with our current forecasts.

Base case valuation is \$143.6m or \$0.13/share

We use the discounted cashflow methodology to value Total Brain, arriving at a base case valuation of \$143.6m after incorporating the raise and our expectation that the company's \$0.08/share options convert in March 2020. This derives a per share valuation of \$0.13 (previously \$0.15). The terminal value in our base case valuation is \$0.09/share. A reverse DCF calculation on the current share price reflects an estimated 20.0% CAGR in free cashflows from 2023-2029 using the same WACC.

Historical	Historical earnings and RaaS Advisory estimates											
Year end	Revenue (A\$m)		NPAT reported (A\$m)	EPS* (c)	P/E (x)	EV/Sales (x)						
06/19	2.6	(6.7)	(8.6)	(1.22)	na	8.2						
06/20e	5.0	(6.0)	(6.6)	(0.69)	na	7.2						
06/21e	11.3	(1.8)	(1.7)	(0.15)	na	3.4						
06//22e	19.6	4.2	2.6	0.23	20.0	1.9						
Source: Comp	any data, RaaS	Advisory Estimates	for FY20e, FY21e	e, FY22e *adj f	or one-tim	e items						

Healthcare services

8 November 2019





Upside Case

- Highly scalable SaaS model
- Significant validation achieved with IBM choosing the platform as the engine for Thrive
- Targeting predominantly US corporates and consumers

Downside Case

- Enterprise sales cycle for the B2B product takes from 9-18 months
- New consumer product yet to be fully trialled in
- Commercial success to date has been elusive

Board of Directors

Dr Evian Gordon	Executive Chairman/ Founder
Louis Gagnon	Managing Director/ CEO
Matthew Morgan	Non-Executive Director
Dr Stephen Koslow	Non-Executive Director
Ajay Arora	Non-Executive Director

Company contact

David Torrible

Emil Vasilev (CFO)	+646 763 3264

Non-Executive Director

emil@totalbrain.com

RaaS Advisory contact

Finola Burke +61 414 354 712 finola.burke@raasgroup.com

The analyst's superannuation fund holds shares



Institutional placement of \$14m

Total Brain has received significant institutional support for its strategy with the upscaled \$14m share placement at \$0.046/share. The placement was completed at a premium to the last closing price (\$0.045/share) and a 13.9% discount to the 30-day volume weighted average price (VWAP). The placement will be completed in two parts with \$8.1m or 175m share completed on or before 14 November and \$5.9m or 129m shares subject to shareholder approval at an extraordinary general meeting.

Q1 FY20 result

Total Brain reported a 14% increase in cash receipts from customers in Q1 FY20 over Q1 FY19. Cash receipts increased 76% in Q1 FY20 over Q4 FY19 and, excluding the \$0.347m annual payment from American Association of Retired Persons (AARP) in the quarter just ended, cash receipts increased 16% over Q4 FY19. Cost containment again was a feature of this result with payments to employees and suppliers declining 1% on the previous corresponding quarter and flat on Q4 FY19.

Exhibit 1: Q1 FY20a versus Q1 FY19a										
In A\$	Q1 FY19a	Q1 FY20a	% chg							
Cash receipts	919,994	1,047,873	14%							
Payments to employees and suppliers	(2,796,958)	(2,764,461)	(1%)							
TB and test development	(549,263)	(683,125)	24%							
Quarterly net capital expenditure	(2,426,267)	(2,399,713)	(1%)							
Net capital expenditure per month	(808,755)	(799,904)	(1%)							
Source: Company data										

The company ended the quarter with \$2.95m cash and noted that it anticipated that cash expenditure (which excludes cash receipts) was expected to be \$2.75m in Q2 FY20.

Vault partnership expands Total Brain's Affinity partnerships

Total Brain's mental health and fitness assessment and screening functionality will be incorporated into Vault's Solo platform which focuses on people monitoring for environmental health and safety. The parties have also agreed to explore a deeper integration of the Total Brain platform within Vault's offerings, as well as explore incorporation of Total Brain's heart rate variability research. Vault earlier this month announced that it in the four months to September 30, it had signed \$14m in contracts for Vault Solo which would help underpin revenues for the next five years.

The upsell and revenue sharing partnership with Vault Intelligence adds to the growing Affinity partnerships that Total Brain has struck in recent months. As we highlighted in our last report, Affinity strategy delivers valuation uplift, the Affinity partnerships struck with IBM (NYSE:IBM), Mental Health America and Everyday Health, delivered an estimated addressable market of 91m to the company. Our forecasts have incorporated that Total Brain achieves combined penetration of 3.5% by FY29 and that revenues from this category generate \$67m in that financial year. A recent corporate presentation by the company outlined that it saw the Affinity partnership opportunity being US\$360m a year based on current signed and identified opportunities. More broadly the company has identified B2C, B2B and Clinical opportunities that it will seek to convert in CY2020. We have set these out in the following exhibit.

| 8 November 2019



Exhibit 2: 2020 Annual Recurrin	g Revenue oppo	rtunities		
Opportunity	Channel	Annual Recurring Revenue (US\$m)	5% penetration (US\$m)	Comment on market
IBM - Veterans	B2C Affinity	194.4	9.7	18m veterans
IBM - Foster Children	B2C Affinity	6.5	0.3	600k foster children
IBM - National Guard	B2C Affinity	4.3	0.2	400k national guard
IBM - Federal Employees	B2C Affinity	27.0	1.4	2.5m FTEs in Federal government
IBM - Department of Defence	B2C Affinity	27.0	1.4	2.5m in active service
IBM - Other identified targets	B2C Affinity	86.4	4.3	8m digital members
Everyday Health	B2C Affinity	10.0	0.5	
American Association of Retired Persons (AARP)	B2C Affinity	5.0	0.5	Based on current fee-based arrangement not 5% penetration
Large Corporate	B2B Opportunity	13.0	0.6	Large US corporate with 1m+ FTEs
Identified corporate opportuniies	B2B	10.8	0.5	
Clinical market	Clinical	20.0	1.0	Based on pre-identified opportunities
Incremental opportunity for CY20		404.4	20.5	
Source: Total Brain Corporate Present	tation 21 October 20	19, page 12		

DCF valuation

We are of the view that the discounted cashflow methodology is the most appropriate methodology for valuing early stage companies. Our base case DCF valuation of Total Brain is \$143.6m (previously 141.3m), including the current placement and incorporating the \$0.08 options that were attached to the March share issue and which will expire in March 2020 (raising another \$5m). This derives a \$0.13/share valuation. If we include the 69.4M \$0.08 options issued to employees and with various expiry dates, the valuation is \$0.12/share. Our terminal value is \$0.09/share within this valuation.

Parameters	Outcome
Discount Rate / WACC	14.7%
Beta	2.2
Terminal growth rate assumption	2.20%
Sum of PV	39.9
PV of terminal Value	83.8
PV of Enterprise	123.7
Debt (Cash) after future forecasted capital raisings	(19.9)
Net Value - Shareholder	143.6
No of shares on issue (m) including March 2020 options	1,144
NPV	\$0.13

Our model also incorporates an upside case and a downside case based on higher/lower than base case penetration of audiences, higher/lower cost bases but using the same valuation parameters. The following exhibit sets out the upside case and downside case and the CAGR in free cashflow that is estimated in each case. A reverse DCF of the current share price using the same parameters but incorporating the FY19 yearend cash position and current share count (post placement) of 1,082m reveals that the market is factoring in 20.0% CAGR in free cashflow from FY23 to FY29.

Exhibit 4: Base, Upside, Downside and Reverse DCF valuations and CAGR in FCF										
Valuation method	Discount rate	CAGR in FCF	Est + FCFs	Value A\$m	Value per share					
Base case DCF valuation	14.7%	42.5%	FY23-29	143.6	\$0.13					
An upside case DCF valuation	14.7%	35.4%	FY22-29	440.5	\$0.38					
A downside case DCF valuation	14.7%	58.0%	FY26-29	26.8	\$0.02					
Reverse DCF*	14.7%	20.0%	FY23-29	48.7	\$0.045					
Source: RaaS Estimates *L	Jses current share	count of 1,082m	1							

| 8 November 2019



Exhibit 5: Financial year financial summary

Total Brain (TTB.AX)						Share price (8 November 2	019)				A\$	0.0
Profit and Loss (A\$m)						Interim (A\$m)	H119A	H219A	H120F	H220F	H220F	H22
Y/E 30 June	FY18A	FY19A	FY20F	FY21F	FY22F	Revenue	1.1	1.5	2.1	2.9	4.5	6
Revenue	2.6	2.6	5.0	11.3		EBITDA	(4.4)	(3.7)	(3.1)	(2.9)	(1.8)	(0
Gross profit	2.5	2.3	4.3	9.8		EBIT	(4.5)	(4.0)	(3.4)	(3.3)	(2.2)	(0
GP margin %	95.3%	87.8%	86.8%	86.8%	86.8%	NPAT (normalised)	(4.5)	(4.1)	(3.4)	(3.2)	(1.5)	(0
EBITDA	(4.9)	(6.7)	(6.0)	(1.8)		Minorities	0.0	0.0	0.0	0.0	0.0	()
	. ,		(0.0)	(0.0)								
Depn	(0.0)	(0.0)	. ,	٠,	. ,	NPAT (reported)	(4.5)	(4.1)	(3.4)	(3.2)	(1.5)	(0
Amort	(0.1)	(0.4)	(0.8)	(0.8)	. ,	EPS (normalised)	(0.7)	(0.6)	(0.4)	(0.3)	(0.1)	(0
EBIT	(23.4)	(7.2)	(6.8)	(2.7)		EPS (reported)	(0.7)	(0.6)	(0.4)	(0.3)	(0.1)	(0
Interest	(0.5)	0.0	0.2	0.3		Dividend (cps)	0.0	0.0	0.0	0.0	0.0	(
Tax	0.8	0.0	0.0	0.6	(1.0)	Imputation	30.0	30.0	30.0	30.0	30.0	3
Minorities	0.0	0.0	0.0	0.0		Operating cash flow	(2.3)	(3.4)	(2.5)	(2.9)	(1.1)	(0
Equity accounted assoc	(0.0)	0.0	0.0	0.0	0.0	Free Cash flow	(1.0)	(2.0)	(1.5)	(1.8)	0.0	
NPAT pre significant items	(23.1)	(8.6)	(6.6)	(1.7)	2.6	Divisionals	H119A	H219A	H120F	H220F	H220F	H22
Significant items	0.0	0.0	0.0	0.0	0.0	B2B Revenue	0.9	0.9	1.5	2.0	2.6	3
NPAT (reported)	(23.1)	(8.6)	(6.6)	(1.7)	2.6	B2C Revenue	0.1	0.2	0.2	0.5	1.5	2
Cash flow (A\$m)						Total Revenue	0.9	1.1	1.7	2.5	4.1	6
Y/E 30 June	FY18A	FY19A	FY20F	FY21F	FY22F							
EBITDA	(4.9)	(6.7)	(6.0)	(1.8)	4.2	Gross profit	1.0	1.3	1.8	2.5	3.9	5
nterest	0.0	0.0	0.2	0.3	0.3	· ·	106%	114%	105%	99%	94%	92
Tax	0.0	0.0	0.2	0.0	(1.0)	5.550 i ioikinaigiii /0	10070	11770	10070	3370	JT/0	3,
Vorking capital changes	1.0	1.1	0.0	0.0	. ,	Employ ment	2.8	2.7	3.2	3.7	3.9	
			-		- ' '	' '					0.4	
Operating cash flow	(3.9)	(5.6)	(5.4)	(1.2)		Marketing	0.4	0.4	0.4	0.4	-	
Atce capex	0.0	0.0	(0.2)	(0.2)	(' /	Other costs	1.2	1.3	1.3	1.3	1.4	
ree cash flow	(3.9)	(5.6)	(5.5)	(1.3)		Total costs	4.4	4.4	4.9	5.4	5.7	(
Growth capex	(1.7)	(2.7)	(2.0)	(2.0)	(2.0)							
Acquisitions/Disposals	0.0	0.0	0.0	0.0	0.0	EBITDA	(3.4)	(3.1)	(3.1)	(2.9)	(1.8)	(
Other	(0.1)	0.1	0.0	0.0	0.0	EBITDA margin %	nm	nm	nm	nm	nm	(
Cash flow pre financing	(5.7)	(8.2)	(7.5)	(3.3)	0.8							
quity	10.5	6.7	19.0	0.0	0.0	Margins, Leverage, Returns		FY18A	FY19A	FY20F	FY21F	FY
Debt	(0.1)	0.0	0.0	0.0	0.0	EBITDA margin %		(186.7%)	(258.7%)	(120.7%)	(15.9%)	2
Dividends paid	0.0	0.0	0.0	0.0	0.0	EBIT margin %		(893.4%)	(274.8%)	(136.6%)	(23.5%)	17
Net cash flow for year	4.7	(1.5)	11.4	(3.3)		NPAT margin (pre significant i	items)	(882.9%)	(329.4%)	(132.6%)	(15.1%)	13
Balance sheet (A\$m)		(-7		()		Net Debt (Cash)	,	6.62	5.21	15.96	12.63	13.
//E 30 June	FY18A	FY19A	FY20F	FY21F	FY22F	Net debt/EBITDA (x)	(x)	n/a	n/a	n/a	n/a	3.
Cash	6.6	5.2	16.0	12.6		ND/ND+Equity (%)	(%)	(43.6%)	(34.8%)	(99.9%)	(71.8%)	(69.3
Accounts receivable	1.3	0.8	0.8	1.5		EBIT interest cover (x)	(x)	n/a	n/a	(55.570) n/a	n/a	(7.6
	0.0	0.0	0.0	0.0		ROA	(X)					
nv entory				_				(95.8%)	(32.3%)	(24.7%)	(8.1%)	9.9
Other current assets	0.0	0.2	0.2	0.2		ROE		(124.4%)	(40.8%)	(25.2%)	(5.5%)	8.2
Fotal current assets	8.0	6.2	17.0	14.3		ROIC		(162.5%)	(109.5%)	(146.9%)	(40.7%)	193.
PPE	0.2	0.2	0.4	0.5		NTA (per share)		4.1%	3.4%	2.8%	2.6%	2.
Goodwill	0.0	0.0	0.0	0.0		Working capital		82.8%	35.3%	16.0%	78.0%	147.
ntangibles	14.7	14.9	16.1	17.3		WC/Sales (%)		31.6%	13.6%	3.2%	6.9%	7.
Deferred tax asset	0.0	0.0	0.0	0.0	0.0	Revenue growth		10.4%	(0.5%)	90.6%	128.3%	72.
Other non current assets	0.0	0.0	0.0	0.0	0.0	EBIT growth pa		n/a	n/a	n/a	n/a	(224.3
otal non current assets	14.9	15.2	16.5	17.8	19.1	Pricing		FY18A	FY19A	FY20F	FY21F	FY:
otal Assets	22.9	21.4	33.5	32.1	34.9	No of shares (y/e)	(m)	531	590	1,144	1,144	1,1
Accounts payable	0.5	0.5	0.7	0.7		Weighted Av Dil Shares	(m)	362	590	1,144	1,144	1,1
Short term debt	0.0	0.0	0.0	0.0	0.0	-	, ,				•	,
ax payable	0.0	0.0	0.0	0.0		EPS Reported	cps	(6.38)	(1.45)	(0.59)	(0.15)	(
Deferred revenue	0.5	0.6	0.8	1.1		EPS Normalised/Diluted	cps	(1.30)	(1.43)	(0.69)	(0.15)	
otal current liabilities	1.0	1.1	1.5	1.8		EPS growth (norm/dil)	υμο	(1.30) n/a	(1.22) n/a	(0.09) n/a	(0.15) n/a	'
			0.0			DPS	000	IVA	ıva	ıva	IVa	
ong term debt	0.0	0.0		0.0			cps	-1.	-1-	- L:	-1-	
Other non current liabs	0.1	0.1	0.1	0.1		DPS Growth		n/a	n/a	n/a	n/a	
otal long term liabilities	0.1	0.1	0.1	0.1		Dividend yield		0.0%	0.0%	0.0%	0.0%	0.
otal Liabilities	1.1	1.2	1.6	1.9		Dividend imputation		30	30	30	30	
let Assets	21.8	20.2	31.9	30.2	32.8	PE (x)		-	-	-	-	2
						PE market		15.8	15.8	15.8	15.8	
Share capital	58.1	64.8	83.7	83.7	83.7	Premium/(discount)			(100.0%)	(100.0%)	(100.0%)	26.
Accumulated profits/losses	(40.2)	(48.8)	(55.3)	(57.1)		EV/EBITDA		(6.3)	(3.2)	(5.9)	(21.6)	
Reserves	3.9	4.2	3.5	3.5	. ,	FCF/Share	cps	(0.7)	(1.0)	(0.5)	(0.1)	
		0.0	0.0	0.0		Price/FCF share	-6-	(6.2)	(4.7)	(9.9)	(52.5)	10
// Inorities	0.0	(1111										

Source: RaaS Advisory



Exhibit 6: Calendar y	ear financial summary
-----------------------	-----------------------

Total Brain (TTB.AX)						Share price (8 November 2	2019)				A\$	0.04
Profit and Loss (A\$m)						Interim (A\$m)	H1CY18A	H2CY18A	H1CY19F	H2CY19F	H1CY20F	H2CY20F
Y/E December 31	CY18A	CY19F	CY20F	CY21F	CY22F	Revenue	1.6	1.1	1.5	2.1	2.9	4.
Revenue	2.7	3.6	7.4	15.7		EBITDA	(5.9)	(4.4)	(3.7)	(3.1)	(2.9)	(1.8
		3.1	6.4			EBIT	- 1		, ,		. ,	
Gross profit	2.5			13.7			(9.3)	(4.5)	(4.0)	(3.4)	(3.3)	(2.2
GP margin %	93.5%	86.8%	86.8%	86.8%		NPAT (normalised)	(11.0)	(4.5)	(4.1)	(3.4)	(3.2)	(1.5
EBITDA	(10.2)	(6.8)	(4.7)	1.5	6.8	Minorities	0.0	0.0	0.0	0.0	0.0	0.
Depn	(0.0)	(0.0)	(0.0)	(0.0)	(0.1)	NPAT (reported)	(11.0)	(4.5)	(4.1)	(3.4)	(3.2)	(1.5
Amort	(0.2)	(0.6)	(0.8)	(0.9)	(0.9)	EPS (normalised)	(2.1)	(0.7)	(0.6)	(0.4)	(0.3)	(0.1
EBIT	(13.9)	(7.4)	(5.5)	0.6	5.8	EPS (reported)	(2.1)	(0.7)	(0.6)	(0.4)	(0.3)	(0.1
Interest	0.0	0.1	0.3	0.3	0.3	Dividend (cps)	0.0	0.0	0.0	0.0	0.0	0.
Tax	0.0	0.0	0.6	(0.2)	(1.7)	Imputation	30.0	30.0	30.0	30.0	30.0	30.
Minorities	0.0	0.0	0.0	0.0	0.0	Operating cash flow	(2.2)	(2.3)	(3.4)	(2.5)	(2.9)	(1.1
Equity accounted assoc	0.0	0.0	0.0	0.0		Free Cash flow	(0.8)	(1.0)	(2.0)	(1.5)	(1.8)	0.
NPAT pre significant items	(15.5)	(7.4)	(4.7)	0.6		Divisionals	H1CY18A	H2CY18A	H1CY19A	H2CY19F	H1CY20F	H2CY20
	. ,	. ,										
Significant items	0.0	0.0	0.0	0.0		B2B Revenue	1.6	0.9	0.9	1.5	2.0	2.6
NPAT (reported)	(15.5)	(7.4)	(4.7)	0.6	4.4	B2C Revenue		0.1	0.2	0.2	0.5	1.5
Cash flow (A\$m)						Total Revenue	1.6	0.9	1.1	1.7	2.5	4.1
Y/E December 31	CY18A	CY19F	CY20F	CY21F	CY22F							
EBITDA	(10.2)	(6.8)	(4.7)	1.5	6.8	Gross profit	1.5	1.0	1.3	1.8	2.5	3.9
Interest	0.0	0.1	0.3	0.3	0.3	Gross Profit Margin %	97%	106%	114%	105%	99%	94%
Tax	0.0	0.0	0.0	(0.3)	(1.7)							
Working capital changes	5.7	0.8	0.5	(0.5)	. ,	Employment	2.3	2.8	2.7	3.2	3.7	3.9
0 1 0					. ,							
Operating cash flow	(4.5)	(5.9)	(3.9)	1.0		Marketing	0.2	0.4	0.4	0.4	0.4	0.4
Mtce capex	0.0	(0.1)	(0.2)	(0.2)	(0.2)	Other costs	1.3	1.2	1.3	1.3	1.3	1.4
Free cash flow	(4.5)	(6.0)	(4.1)	0.8	4.6	Total costs	3.7	4.4	4.4	4.9	5.4	5.7
Growth capex	(2.8)	(2.4)	(2.0)	(2.0)	(2.0)							
Acquisitions/Disposals	0.0	0.0	0.0	0.0	0.0	EBITDA	(2.2)	(3.4)	(3.1)	(3.1)	(2.9)	(1.8
Other	(0.1)	0.1	0.0	0.0	0.0	EBITDA margin %	nm	nm	nm	nm	nm	-43%
Cash flow pre financing	(7.4)	(8.2)	(6.1)	(1.2)	2.6							
Equity	1.2	20.7	5.0	0.0		Margins, Leverage, Returns		CY18A	CY19F	CY20F	CY21F	CY22I
Debt	0.0	0.0	0.0	0.0		EBITDA margin %		(384.5%)	(189.2%)	(63.7%)	9%	29%
	0.0					•		` '	, ,			25%
Dividends paid		0.0	0.0	0.0		EBIT margin %	25	(521.2%)	(207.0%)	(74.9%)	4%	
Net cash flow for year	(6.1)	12.4	(1.1)	(1.2)	2.6	NPAT margin (pre significant	items)	(582.8%)	(206.9%)	(63.2%)	4%	19%
Balance sheet (A\$m)						Net Debt (Cash)		3.27	14.89	13.80	12.59	15.20
Y/E December 31	CY18A	CY19F	CY20F	CY21F		Net debt/EBITDA (x)	(x)	n/a	n/a	n/a	8.53	2.25
Cash	3.3	14.9	13.8	12.6	15.2	ND/ND+Equity (%)	(%)	(22.9%)	(97.8%)	(82.9%)	(68.1%)	(75.0%
Accounts receivable	0.5	0.6	1.1	1.8	2.6	EBIT interest cover (x)	(x)	n/a	n/a	n/a	(45.8%)	(4.5%
Inventory	0.0	0.0	0.0	0.0	0.0	ROA		(62.3%)	(29.7%)	(17.3%)	1.8%	16.4%
Other current assets	0.1	0.2	0.2	0.2	0.2	ROE		(94.3%)	(31.2%)	(15.4%)	2.0%	13.2%
Total current assets	3.8	15.7	15.1	14.6		ROIC		(102.9%)	(256.5%)	(77.8%)	32.2%	179.6%
PPE	0.2	0.3	0.4	0.6		NTA (per share)		3.3%	5.1%	2.7%	2.7%	3.1%
Goodwill	0.2	0.0	0.4	0.0		Working capital		(6.6%)	(1.1%)	42.4%	111.7%	185.5%
								. ,	. ,			
Investments	0.0	0.0	0.0	0.0		WC/Sales (%)		(2.5%)	(0.3%)	5.8%	7.1%	7.9%
Deferred tax asset	0.0	0.0	0.0	0.0		Revenue growth		12.3%	35.1%	104.8%	113.5%	48.6%
Other non current assets	14.5	15.5	16.7	17.9	19.0	· '		n/a	n/a	n/a	(110.5%)	903.8%
Total non current assets	14.8	15.9	17.2	18.5		Pricing		CY18A	CY19F	CY20F	CY21F	CY22
Total Assets	18.6	31.6	32.3	33.1	37.7	No of shares (y/e)	(m)	531	1,082	1,144	1,144	1,144
Accounts payable	0.5	0.6	0.7	0.7	0.8	Weighted Av Dil Shares	(m)	590	1,082	1,144	1,144	1,144
Short term debt	0.0	0.0	0.0	0.0	0.0	•	1 ,					,
Tax payable	0.0	0.0	0.0	0.0		EPS Reported	cnc	(2.02)	(U 83)	(0.44)	0.05	0.3
						·	cps	(2.92)	(0.83)	(0.41)		
Deferred revenue	0.4	0.7	1.0	1.2		EPS Normalised/Diluted	cps	(2.92)	(0.83)	(0.41)	0.05	0.3
Total current liabilities	0.9	1.3	1.7	1.9	2.1	EPS growth (norm/dil)		n/a	n/a	n/a	(113.1%)	620%
Long term debt	0.0	0.0	0.0	0.0	0.0	DPS	cps	-	-	-	-	-
Other non current liabs	0.1	0.1	0.1	0.1	0.1	DPS Growth		n/a	n/a	n/a	n/a	n/
Total long term liabilities	0.1	0.1	0.1	0.1	0.1	Dividend yield		0.0%	0.0%	0.0%	0.0%	0.0%
Total Liabilities	1.0	1.4	1.8	2.0	2.2	•		30	30	30	30	3
Net Assets	17.5	30.1	30.5	31.1	35.5			-	-	-	84.3	11.
	17.5	30.1	50.5	31.1	55.5	PE market		15.8	15.8	15.8	15.8	15.
Share capital	E0 4	70 7	02.7	02.7	02.7			10.6				
Share capital	58.1	78.7	83.7	83.7		Premium/(discount)		/2.21	(100.0%)	(100.0%)	433.8%	(25.8%
Accumulated profits/losses	(44.8)	(52.2)	(56.8)	(56.2)	. ,	EV/EBITDA		(3.0)	(6.4)	(7.6)	26.3	5.6
Reserves	4.2	3.5	3.5	3.5		FCF/Share	cps	(0.7)	(0.5)	(0.5)	-0.1	0.
Minorities	0.0	0.0	0.0	0.0	0.0	Price/FCF share		(6.2)	(8.6)	(9.9)	- 52.5	16.2
	17.5	30.1	30.5	31.1	25.5	Free Cash flow Yield		(16.2%)	(11.6%)	(10.1%)	(1.9%)	6.29

Source: RaaS Advisory



FINANCIAL SERVICES GUIDE

RaaS Advisory Pty Ltd ABN 99 614 783 363

Corporate Authorised Representative, number 1248415

of

BR SECURITIES AUSTRALIA PTY LTD
ABN 92 168 734 530
AFSL 456663

Effective Date: 26th November 2018



About Us

BR Securities Australia Pty Ltd (BR) is the holder of Australian Financial Services License ("AFSL") number 456663. RaaS Advisory Pty Ltd (RaaS) is an Authorised Representative (number 1248415) of BR. This Financial Service Guide (FSG) is designed to assist you in deciding whether to use RaaS's services and includes such things as

- who we are
- our services
- how we transact with you
- how we are paid, and
- complaint processes

Contact Details, BR and RaaS

BR Head Office: Level 14, 344 Queen Street, Brisbane, QLD, 4000

RaaS. 20 Halls Road Arcadia, NSW 2159

P: +61 414 354712

E: finola.burke@raasgroup.com

RaaS is the entity providing the authorised AFSL services to you as a retail or wholesale client.

What Financial Services are we authorised to provide? RaaS is

authorised to

- provide general advice to retail and wholesale clients in relation to
 - Securities
- deal on behalf of retail and wholesale clients in relation to
 - Securities

The distribution of this FSG by RaaS is authorized by BR.

Our general advice service

Please note that any advice given by RaaS is general advice, as the information or advice given will not take into account your particular objectives, financial situation or needs. You should, before acting on the advice, consider the appropriateness of the advice, having regard to your objectives, financial situation and needs. If our advice relates to the acquisition, or possible acquisition, of a particular financial product you should read any relevant Prospectus, Product Disclosure Statement or like instrument. As we only provide general advice we will not be providing a Statement of Advice. We will provide you with recommendations on securities

Our dealing service

RaaS can arrange for you to invest in securities issued under a prospectus by firstly sending you the offer document and then assisting you fill out the application from if needed.

How are we paid?

RaaS earns fees for producing research reports. Sometimes these fees are from companies for producing research reports and/or a financial model. When the fee is derived from a company, this is clearly highlighted on the front page of the report and in the disclaimers and disclosures section of the report.

We may also receive a fee for our dealing service, from the company issuing the securities.

Associations and Relationships

BR, RaaS, its directors and related parties have no associations or relationships with any product issuers other than when advising retail clients to invest in managed funds when the managers of these funds may also be clients of BR. RaaS's representatives may from time to time deal in or otherwise have a financial interest in financial products recommended to you but any material ownership will be disclosed to you when relevant advice is provided.

Complaints

If you have a complaint about our service you should contact your representative and tell them about your complaint. The representative will follow BR's internal dispute resolution policy, which includes sending you a copy of the policy when required to. If you aren't satisfied with an outcome, you may contact AFCA, see below. BR is a member of the Australian Financial Complaints Authority (AFCA). AFCA provide fair and independent financial services complaint resolution that is free to consumers.

Website: www.afca.org.au; Email: info@afca.org.au; Telephone: 1800931678 (free call)
In writing to: Australian Financial Complaints Authority, GPO Box 3, Melbourne, VIC, 3001.

Professional Indemnity Insurance

BR has in place Professional Indemnity Insurance which satisfies the requirements for compensation under s912B of the Corporations Act and that covers our authorized representatives.



DISCLAIMERS and DISCLOSURES

This report has been commissioned by Total Brain Ltd prepared and issued by RaaS Advisory Pty Ltd. RaaS Advisory has been paid a fee to prepare this report. All information used in the publication of this report has been compiled from publicly available sources that are believed to be reliable, however neither Total Brain Ltd nor RaaS Advisory guarantee the accuracy or completeness of this report. Opinions contained in this report represent those of the principals of RaaS Advisory at the time of publication. This research is issued in Australia by RaaS Advisory and any access to it should be read in conjunction with the Financial Services Guide on the preceding two pages. RaaS Advisory holds Corporate Authorised Representative no 1248415 of AFSL 456663. This is not a solicitation or inducement to buy, sell, subscribe, or underwrite any securities mentioned or in the topic of this document. This document is provided for information purposes only and should not be construed as an offer or solicitation for investment in any securities mentioned or in the topic of this document. Forward-looking information or statements in this report contain information that is based on assumptions, forecasts of future results, estimates of amounts not yet determinable, and therefore involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of their subject matter to be materially different from current expectations. Past performance is not a guarantee of future performance. To the maximum extent permitted by law, RaaS Advisory, its affiliates, the respective directors, officers and employees will not be liable for any loss or damage arising as a result of reliance being placed on any of the information contained in this report and do not guarantee the returns on investments in the products discussed in this publication. Copyright 2019 RaaS Advisory Pty Ltd (A.B.N. 99 614 783 363). All rights reserved.