

MTM Critical Metals Limited

Turning trash into cash in a flash

June 2025

Recommendation: BUY

- Turning e-scrap into saleable metals using transformative patent protected IP
- Near term revenues from gold, gallium and germanium
- Pilot plant commissioning 2025, commercial production 2026

ASX: MTM

Share Price: \$0.43

Target Price: \$0.96

M/Cap.: \$197M

Valuation: \$0.96/share

Valuation: \$662M

Shares/options: 458.3

Monthly T/over: \$50M



Hugh Stackpool

+61 2 9239 9625

HStackpool@petracapital.com.au

Petra Capital Pty Ltd

Contents

Analysis.....	4
Executive Summary.....	5
Company Overview	6
Valuation and Price Target	8
E-waste – The highest grade gold mine on earth.....	8
Gallium and Germanium – a smaller but very profitable opportunity	9
Key risks	11
A Vast Addressable Market for Urban Mining	12
E-Waste: The World's Richest Ore Body	12
Locked-In Supply: A Foundation for Commercial Scale.....	12
How Big Can This Get? How Fast Can it Scale?	13
It all starts in Texas – Pilot plant to commission by end of 2025.....	13
Flash Joule Heating - MTM's patent protected IP	14
Why will MTM win against incumbent technologies?	15
How strong is MTM's patents and IP shield?	16
Strategic Partnerships & Validation	16
If I was an investor I'd ask	17
Appealing to a broad range of investors.....	18
Board & Top Shareholders	19
Board Members	19
Experienced Management Team	19

Figure 1: Top 20 Shareholders (Dated April 2025)

	Name	Amount	%
1	Pengana Capital Ltd.	27,586,207	6.02
2	Terra Capital Natural Resource Fund	21,500,000	4.69
3	Terra Capital Green Metals Fund	21,500,000	4.69
4	Investjtech LLC	20,000,000	4.36
5	Hills Limited	10,686,123	2.33
6	Ariel Malik	10,494,162	2.29
7	Fortify Advisory Pty Ltd	9,124,591	1.99
8	Sandton Capital Advisory Pty Ltd, Asset Management Arm	9,124,591	1.99
9	John Hughan	8,135,031	1.77
10	Weyburn Group Pty Ltd	7,667,724	1.67
11	Jindabyne Capital Pty Ltd	7,000,000	1.53
12	Bowman Gate Pty Ltd	5,848,215	1.28
13	John Hannaford	5,341,839	1.17
14	The Code Flag Z Trading Company Pty Ltd	4,000,000	0.87
15	Michael Sertorio	3,337,171	0.73
16	David Izzard	3,050,000	0.67
17	Avdo Tabakovic	3,000,000	0.65
18	Rice William Marsh University	3,000,000	0.65
19	William Brooks	2,991,000	0.65
20	Chunyan Niu	2,330,345	0.51
	Total	185,716,999	40.52

Source: Iress

June 2025

MTM Critical Metals Ltd (MTM)

BUY
Share Price: A\$0.43

Turning trash into cash in a flash

Target Price: A\$0.96

Most companies dig holes to find gold. MTM finds it in the laptop you threw away last year. E-scrap is the richest undeveloped gold mine on Earth, with grades >100x those of the average mine. MTM's Flash Joule Heating tech (FJH) is proven at lab-scale and its pilot plant will commission by year end. Commercial production is targeted for 2026. Once you understand the capex and complexity of existing e-scrap recycling, you'll understand why customers and suppliers alike are wanting to work with MTM. With high-grade e-scrap offtake locked in, patent-protected IP, and the imminent addition of very high margin gallium and germanium feedstock streams, we see MTM building a low capex, modular, cash-generating metals business. We initiate with a BUY rating and A\$0.96/sh price target.

What does MTM do?

- FJH extracts metals from e-waste and industrial scrap
- The process has low capex, is modular, uses ~90% less energy than smelting, while delivering 95%+ recoveries in seconds, delivering separate saleable metal products
- Incumbents use high capex smelting. MTM's low capex (~US\$4m per line), pre-permitted U.S. site, and modular rollout strategy allows it to deploy profitably at small scale
- MTM has locked in 1,100tpa of gold-rich feedstock for five years, 3x initial capacity, positioning it to scale rapidly with additional lines deployable in under 12 months
- Indium Corp. partnership will add semiconductor scrap, with ultra-high margin gallium and germanium (Ga/Ge)

High margin, fast payback, low capex scalable growth

- 1tpd pilot plant delivers US\$6.1m p.a. at 53% EBITDA margins on e-scrap, with a 3.3-year capex payback
- Margins are strong due to high recoveries, an energy efficient process, no acid required & minimal waste
- Semiconductor scrap offers material cashflow upside, delivering 10x EBITDA per tonne through the same plant

Undervalued entry ahead of re-rating catalysts

- Our valuation assumes MTM treats 5% of the 1.6Mtpa of high-grade e-scrap generated in the USA, in time
- Our A\$0.96/sh valuation is conservative as we await execution of the pilot plant, capacity expansions and commercialisation strategy as Ga/Ge contracts land
- While we assume plant expansion is equity and debt funded, MTM is likely to qualify for DoD/DoE grants

Key Dates Ahead – de-risking now, re-rating soon

- 2H 2025 – Contract terms on gallium/germanium
- Dec Q 2025 – Pilot plant commissioning (1tpd)
- 1H 2026 – First material metals revenues
- End 2026 – Commercial production achieved

Company Data

Shares – ordinary (M)	458.3
Market capitalisation (\$M)	197
12 month low/high (\$)	0.02/ 0.43
Average monthly turnover (\$M)	23
GICS Industry	Metals & Mining

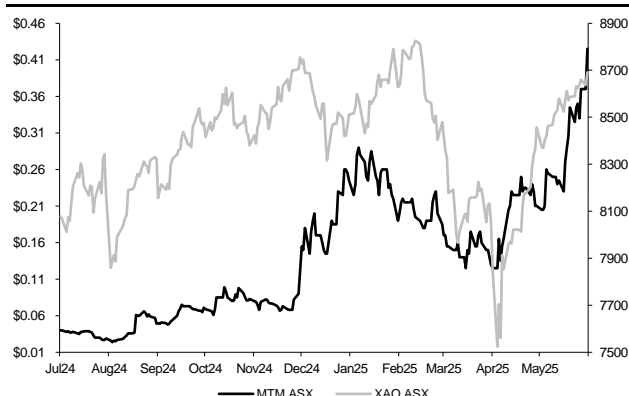
Board

Director	Position	Executive	Independent
Michael Walshe	MD/CEO	Yes	No
John Hannaford	Chair	No	Yes
Anthony Hadley	NED	No	Yes
Paul Niardone	NED	No	Yes

Financial Summary (fully diluted/normalised)

Year end June	2025F	2026F	2027F	2028F	2029F
Revenue (\$M)	-	1	82	152	212
Costs (\$M)	(5)	(10)	(55)	(92)	(121)
EBITDA (\$M)	(5)	(10)	27	60	91
NPAT (\$M)	(5)	(11)	17	33	34
EPS (¢ps)	(1.1)	(1.9)	2.8	5.5	5.7
EPS growth (%)	n.m.	n.m.	+100%	98%	3%
PER (x)	(39.4)	(22.9)	15.4	7.8	7.5
Op. Cashflow (\$M)	(5)	(9)	21	42	49
OCFPS (¢ps)	(1.1)	(2.1)	4.6	9.2	10.7
POCFPS (x)	(40.5)	(20.8)	9.4	4.7	4.0
EV (\$M)	195	172	171	139	93
EV / EBITDA (x)	(38.9)	(18.0)	6.4	3.2	4.3
Payout ratio (%)	-	-	-	-	-
Dividends (¢ps)	-	-	-	-	-
Yield (%)	-	-	-	-	-
Franking (%)	-	-	-	-	-

MTM – performance over one year



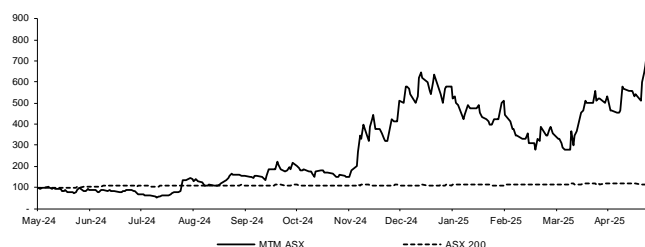
Analysis

MTM Limited (MTM)

Year end 30 June

Recommendation		Buy
Price	A\$	0.43
Target Price (12-month)	A\$	0.96
Upside / (Downside)	%	123%
52 week high / low	\$	0.345 - 0.024
Market capitalisation	A\$m	197
Shares on issue	m	459
Options/Rights	m	95
Shares raised*	m	137
Shares on issue (diluted)	m	690

SHARE PRICE VS INDEX



PROFIT & LOSS (A\$m)		2025E	2026E	2027E	2028E	2029E
Revenue	\$M	-	1	82	152	212
Operating Costs	\$M	(5)	(10)	(55)	(92)	(121)
Exploration	\$M	-	-	-	-	-
Grant Funding	\$M	-	-	-	-	-
EBITDA	\$M	(5)	(10)	27	60	91
Dep. & Amort.	\$M	(0)	(2)	(4)	(9)	(15)
EBIT	\$M	(5)	(11)	23	51	76
Net Interest	\$M	0	0	1	(4)	(27)
Pre-Tax Profit	\$M	(5)	(11)	24	47	49
Tax	\$M	-	-	(7)	(14)	(15)
Net Profit	\$M	(5)	(11)	17	33	34
Abnormal	\$M	-	-	-	-	-
Reported Profit	\$M	(5)	(11)	17	33	34

CASH FLOW (A\$m)	2025E	2026E	2027E	2028E	2029E
Operating Cashflow	\$M (5)	(9)	21	42	49
Capex	\$M (11)	(18)	(20)	(60)	(252)
Exploration	\$M -	-	-	-	-
Acquisition Payments	\$M -	-	-	-	-
Investing Cashflow	\$M (11)	(18)	(20)	(60)	(252)
Equity Issues	\$M 16	50	-	-	-
Net Borrowings	\$M -	-	-	50	250
Financing Cashflow	\$M 16	50	-	50	250
Free Cashflow	\$M (15)	(28)	1	(18)	(204)
Surplus Cash Flow	\$M 0	22	1	32	46

Surplus Cash Flow	\$M	0	22	1	32	40
BALANCE SHEET (A\$m)		2025E	2026E	2027E	2028E	2029E
Cash	\$M	3	25	26	58	104
Other Current	\$M	0	0	0	0	0
Total Current	\$M	3	25	26	58	105
PP&E & Exploration	\$M	19	35	51	102	339
Other	\$M	8	8	8	8	8
Total NC Assets	\$M	26	43	58	109	347
Total Assets	\$M	29	68	85	168	452
Current Liab	\$M	0	0	0	0	0
Non Current Liab	\$M	-	-	-	50	300
Total Liabilities	\$M	0	0	0	50	300
Net Assets	\$M	29	68	84	117	151
Equity	\$M	29	68	84	117	151
Total Debt	\$M	-	-	-	50	300
Net Debt	\$M	(3)	(25)	(26)	(8)	196

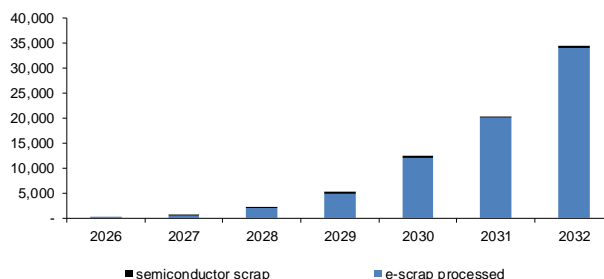
RATIO ANALYSIS		2025E	2026E	2027E	2028E	2029E
EPS	¢	(1.1)	(1.9)	2.8	5.5	5.7
PER	x	(39)	(23)	15.4x	7.8x	7.5x
EPS Growth	%	n.m.	n.m.	n.m.	98%	3%
EV/EBITDA	x	(39)	(18)	6x	3x	4.3x
EV/OCF	x	(40)	(18)	8x	5x	8.0x
FCFPS	¢	(3.4)	(4.7)	0.2	(3.0)	(34.2)
FCF Yield	%	n.m.	n.m.	0%	n.m.	n.m.
Payout Ratio	%	0%	0%	0%	0%	0%
DPS	¢	-	-	-	-	-
Yield	%	-	-	-	-	-
Franking	%	0%	0%	0%	0%	0%
Gearing ND/E	%	(9%)	(37%)	(31%)	(7%)	129%
Interest Cover	x	n.m.	n.m.	n.m.	13.7	2.8
EBITDA Margin	%	- (1321%)	33%	39%	43%	43%
EBIT Margin	%	-	(1558%)	28%	33%	36%
Return On Assets	%	(17%)	(16%)	28%	28%	11%
Return On Equity	%	(17%)	(17%)	20%	28%	22%
Eff Tax rate	%	30%	30%	30%	30%	30%

* We assume all future equity is raised at a 15% discount to last close, we note management believes govt. grants could replace a material amount of equity

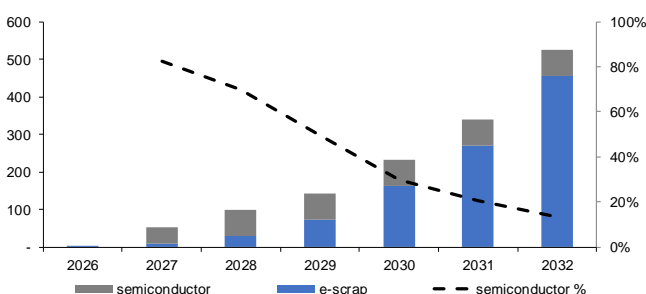
ASSUMPTIONS (Real)		2025E	2026E	2027E	2028E	2029E
A\$/US\$ exchange rate	A\$/US\$	0.64	0.63	0.65	0.66	0.67
Gold	US\$/kg	2,748	3,100	3,050	2,800	2,650
Silver	US\$/kg	31	33	33	33	33
Gallium	US\$/t	309,066	309,066	309,066	309,066	309,066
Germanium	US\$/t	2,335,165	2,335,165	2,335,165	2,335,165	2,335,165
PRODUCTION		2025E	2026E	2027E	2028E	2029E
E-Scrap processed	t	-	27	568	1,938	4,875
Gold recovered	oz	-	144	2,992	10,211	25,692
Silver recovered	koz	-	734	15,224	51,963	130,746
Weighted price	US\$/t	-	16,861	16,576	15,394	14,676
Operating cost	US\$/t	-	7,668	7,588	7,261	7,063
Margin	%	-	55%	54%	53%	52%

Superconductor scrap	t	-	-	228	365	365
Gallium recovered	t	-	-	19	31	31
Germanium recovered	t	-	-	19	31	31
Weighted price	US\$/t	-	-	191,046	191,046	191,046
Operating cost	US\$/t	-	-	108,769	108,769	108,769
Margin	%	-	-	43%	43%	43%

PROCESSING SCHEDULE (tonnes per annum)



REVENUE BY PRODUCT (US\$m) - Semiconductor dominates first three years



VALUATION - Fully Diluted, 10% Rate	Unrisked	Risking	Risked	A\$/Sh
US E-Scrap Division	3,220	20%	644	0.93
US E-Gallium / Germanium Division	305	20%	61	0.09
Minerals Processing			25	0.04
Net Cash			3	0.00
Corporate			(71)	(0.10)
Group Valuation			662	0.96

Source: Petra Capital, Fully diluted for a A\$50m equity raising in 2026 via 132m shares at A\$0.38/sh

Executive Summary

Disruptive technology with early commercial traction

MTM's Flash Joule Heating (FJH) process is a one-step, acid-free, low-carbon and low-energy intensity metal recovery system that achieves >95% recovery of gold, copper and silver from e-waste scrap and gallium/germanium from semiconductor scrap. Unlike traditional smelting or hydrometallurgy, FJH uses a high-voltage pulse to instantaneously heat material to 1,000-3,000°C, separating metals as saleable chlorides in milliseconds. The pilot-scale flowsheet has been validated on real-world feedstock, and MTM will commission its 1 tonne per day pilot plant in Q4 2025. The FJH system's modularity, low capex, and high recovery make it scalable. If the pilot plant executes to plan, we see a material re-rating when commercial production accelerates through CY2026.

E-waste is no longer a problem ... it's the richest source of gold on Earth

Printed circuit boards (PCBs) recovered from data centres and industrial equipment hold metal grades many times greater than traditional mines. MTM has successfully produced metal from feedstock grading 551 g/t gold, 42% copper, and 13% tin. The company has locked in two supply agreements totalling 1,100tpa of ultra-high-grade e-scrap supply. This is triple the initial plant capacity; if the team can execute on engineering and ramp up, we expect revenues to grow quickly. This scrap delivers an estimated in-situ value of US\$22,500/t, with gold contributing ~80% of revenue. Globally, over US\$80 billion in metals is discarded in e-waste each year. If we look at MTM's starting market in the U.S., the initial focus will be on the 1.6Mtpa of gold in PCB's. If MTM can achieve a 5% market share in PCB over time, it would be a 496kozpa gold producer (top 3 on ASX).

Scalable U.S. pilot plant and locked-in feedstock

MTM's first plant is located on a pre-permitted industrial site in Texas, 40 minutes from Houston Port, with capacity for 4–5 FJH units (1tpd each) and expansion rights to another 20 acres. The plant is designed with KnightHawk Engineering who previously built and commissioned a similar FJH plant in Canada for use in graphene markets. MTM's first two feedstock suppliers, Dynamic Lifecycle and Plastic Recycling Inc, will provide supply of 1,100tpa of high-grade scrap over five-years. These locked-in volumes support predictable revenue and enable MTM to scale rapidly if pilot success is achieved. Scrap pricing is market based on contained value, guided by MTM at around 20% of in-situ value.

Attractive fundamental economics from gold, gallium and germanium

We expect MTM to produce operating cashflow in CY2026 by processing both e-waste PCBs and semiconductor scrap (Ga/Ge). While PCB scrap yields US\$6.1m/year in revenue from the pilot plant, Ga/Ge scrap has 11x the revenue (US\$69.7m), significantly accelerating payback. The same capex and plant footprint can process both streams. A contract with Indium Corporation outlining the economics of Ga/Ge is a significant near-term catalyst. In addition, Ga and Ge are on the U.S. Department of Defense's critical minerals list, and MTM's unique ability to isolate them into metal chlorides is aligned with government procurement goals. There is potential for favourable government funding pathways as we have seen with peers (eg. IPX secured US\$60m in DoD funding for titanium).

A\$0.96/sh price target – Buying asymmetric upside at an inflection point

MTM sits at a classic asymmetric inflection point. FJH is validated at lab scale, but the team must now prove it at commercial scale. Both upstream (e-scrap) and downstream (Indium Corp) partners are backing the rollout. Pilot plant economics are strong: US\$10m capex yields US\$6.1m revenue at 53% EBITDA margins, with a 3.3-year payback. Additional lines offer a 1.3-year payback if results are replicated. Assuming 5% U.S. market share (80,000tpa PCB e-scrap) is achieved over an 8 year period, we calculate a A\$3.2bn NPV₁₀. Higher margin semiconductor scrap could add US\$31m/yr EBITDA and A\$306m NPV₁₀ from just one 365tpa plant. We risk-weight both at 20% of NPV in our price target. Minerals processing is valued at a nominal A\$25m pending further progress. Including cash and deducting corporate costs, we value MTM at A\$662m or A\$0.96/sh. This assumes A\$50m in equity funding is needed to reach positive cash generation (132m shares at A\$0.38/sh). Long term, 5% share of the U.S. PCB scrap market (80,000tpa) could generate A\$1.7bn revenue and A\$835m EBITDA. Peer recyclers trade at ~10x EV/EBITDA, offering re-rating potential post-commercialisation.



**PANMURE
LIBERUM**



Level 17, 14 Martin Place, Sydney NSW 2000
Office: +61 2 9239 9600

ABN 95 110 952 782
ACN 110 952 782
AFSL 317 944

Level 5, 1 Collins Street, Melbourne VIC 3000
Office: +61 3 9123 3000

Australia's exclusive partner of CGS International, Panmure Liberum & Global Alliance Partners

Argentina Latin Securities Arenales 707 - Piso 6° Retiro C1061AAA Ciudad Autónoma de Buenos Aires	Australia Petra Capital Level 17, 14 Martin Place Sydney	China & Hong Kong BF Belmont 6 Yip Fat Street Wong Chuk Hang, Hong Kong
China & Hong Kong Quam Capital 111 Connaught Rd Central, Sheung Wan, Hong Kong	Hong Kong CGS International 28 Floor, 111 Connaught Rd Central, Sheung Wan	Japan Capital Partners Securities 1 Chome-13-7 Uchikanda, Chiyoda City Tokyo
Latin America Southern Bridge Capital Cayman Islands	Malaysia CGS International Level 29, Menara Bumiputra-Commerce No. 11, Jalan Raja Laut, Kuala Lumpur	Philippines WeCap Inc. 112 Aguirre St. Legazpi Village Makati City
Singapore CGS International 10 Marina Boulevard Marina Bay Fin. Centre Tower 2 #09-01 Singapore	Singapore N PrimePartners Capital 16 Collyer Quay Singapore	Singapore United Global Securities 14 Tuas Drive 2 Singapore
Spain GVC Gaesco Fortuny 17, 28010 Madrid	Thailand PI Securities PCL 132 Wireless Road Lumpini Pathumwan Bangkok	United Arab Emirates Quadrillion Advisory Suite 807, 8th Floor, The Burlington Tower, Business Bay, Dubai
United Kingdom Panmure Liberum 25 Ropemaker Street London	United States Auerbach Grayson 20 West 55 Street New York	United States MCM Capital Partners 25201 Chagrin Blvd. Beachwood, Ohio
United States Shore Capital 1 East Wacker Dr. Chicago, Illinois	United States TerraNova Capital Partners Suite 1402, 420 Lexington Avenue New York	Vietnam Delta West Ho Chi Minh City

Disclosure

This document has been prepared in Australia by Petra Capital Pty Ltd which holds an Australian Financial Services License AFSL 317 944. Petra Capital Pty Ltd is an ASX and Chi-X Market Participant. Petra Capital Pty Ltd and its associates, officers, directors, employees and agents, from time to time, may receive brokerage, commissions, fees or other benefits or advantages, hold securities in companies researched by Petra Capital Pty Ltd and may trade in these securities either as principal or agent.

Disclaimer

The information or advice contained in this report has been obtained from sources that were accurate at the time of issue, however the information has not been independently verified and as such, Petra Capital Pty Ltd cannot warrant its accuracy or reliability. Persons relying on this information do so at their own risk. To the extent permitted by law, Petra Capital Pty Ltd disclaims all liability or responsibility for any direct or indirect loss or damage (including consequential loss or damage) caused by any error or omission within this report, or by persons relying on the contents of this report.

This report is published by Petra Capital Pty Ltd by way of general information or advice only. This report does not take into account specific investment needs or other considerations that may be pertinent to individual investors. Before making any investment decisions based on this report, parties should consider, with or without an investor adviser, whether any relevant part of this report is appropriate to their financial circumstances and investment objectives. Petra Capital Pty Ltd is a licensed institutional/wholesale stockbroking firm. The report is only intended for institutional and sophisticated clients to whom Petra Capital Pty Ltd has issued the report. Petra Capital Pty Ltd is not licensed to advise retail investors – retail investors should contact their own stockbroker or financial adviser/planner for advice.

Ratings

Information regarding the scope and expertise of our research services, processes for selection for coverage, and the management of conflicts of interest can be found on Petra Capital's website at <http://www.petracapital.com.au/research-disclosures>. Petra Capital uses the following ratings system and definitions: Buy - Forecast to re-rate by more than 5% in 12 months; Hold - Forecast to perform up to 5% above or below the current market price in 12 months, or alternatively, where a shareprice exceeds Petra Capital's valuation but there is a belief that business growth opportunities or commodity price moves, may result in material valuation and shareprice upside within 12 months; Sell - Forecast to underperform by more than 5% in 12 months; Speculative Buy - Speculative Investment; Take Profits - Recommend taking short term profits in a stock we remain fundamentally positive on a medium term view; Accept Offer - For a company under takeover where we see the offer as a fair price with low risk of a competing offer; No Rating - No rating at this time.

US Investors

This material is intended for use in the US only by major US Institutional Investors, as that term is defined by the SEC Rule 15a-6. Transactions with US Institutional Investors and major US Institutional Investors, as those terms are defined by SEC Rule 15a-6, are chaperoned by Global Alliance Securities, LLC, ("Global Alliance"), a SEC-registered broker-dealer and FINRA member (web: www.globalalliancesecurities.com) in accordance with the agreement between Global Alliance and Petra Capital Pty Ltd. The information upon which this material is based was obtained from sources believed to be reliable, but has not been independently verified. Therefore, its accuracy is not guaranteed. Additional and supporting information is available upon request. This is not an offer or solicitation of an offer to buy or sell any security or to make any investment. Any opinion or estimate constitutes the preparer's best judgement as of the date of preparation and is subject to change without notice. Petra Capital Pty Ltd or Global Alliance and their associates or affiliates, and their respective officers, directors and employees may buy or sell securities mentioned herein as agent or principal for their own account.

Canadian Investors

Petra Capital Pty Ltd is not registered as an adviser in Canada and is relying upon the international adviser exemption in British Columbia, Ontario and Quebec as permitted under National Instrument 31-103. Petra Capital is incorporated and headquartered in Australia and has an Australian Financial Services License. All its assets are situated outside Canada and, as a result, there may be difficulty enforcing any legal rights against Petra Capital. Its agents for service of process are: Lawdell Corporate Services Limited, 1600, 925 West Georgia Street, Vancouver, British Columbia V6C 3L2; ToryCo Services c/o Torys LLP, 79 Wellington Street West, Suite 3000, Toronto, Ontario, M5K 1N2; and Torys Law Firm LLP, 1 Place Ville Marie, Suite 2880, Montréal, Québec H3B 4R4.

Other International

International investors are encouraged to contact their local regulatory authorities to determine whether restrictions apply in buying/selling this investment.