**EQUITY RESEARCH - COMPANY REPORT** 



# HANA MICROELECTRONICS

# **HANA TB**

THAILAND / ELECTRONIC COMPONENT

# BUY

#### FROM HOLE

TARGET PRICE	THB26.50
CLOSE	THB23.20
UP/DOWNSIDE	+14.2%
PRIOR TP	THB22.00
CHANGE IN TP	+20.5%
TP vs CONSENSUS	+18.9%

# Al project is coming

- Having passed the lowest point in 2Q25, we expect revenue to gradually recover in 2H25.
- Al project revenue to be recognized from 4Q25; tariff impact limited but worth monitoring.
- Upgraded to BUY with 2026 TP at THB26.5.

### Order expected to gradually recover in 2H25

Management provided a mixed outlook for order trends in 2H25, expecting orders from factories in the US, Cambodia, and Ayutthaya to recover more significantly, while orders from China remain sluggish due to US tariffs. This has caused some customers to shift to the Cambodian factory. Recently, HANA has already reduced staff at its China plant. Meanwhile, order recovery is being seen in several product groups except Automotive, which is still affected by tariffs. Overall, we expect orders in 2H25 to improve h-h.

## Al project revenue should start in 4Q25

A highlight is the disclosure of receiving an AI project order from a customer involving assembly work for components in solid-state cooling devices. Revenue recognition would start in 4Q25 and increase further in 2026. The company has not disclosed revenue targets but mentioned that only minor equipment investments are needed, as it is an assembly business with low capital needs. We expect gross margins to be similar or slightly better than the non-AI business. Given strong growth trends in AI, the revenue outlook for 2026 is viewed positively, with potential growth exceeding expectations.

### Limited impacts from 100% semiconductor tariff

In the case of the U.S. imposing a 100% semiconductor tariff but exempting companies with manufacturing or investment bases in the U.S., although HANA generates 26% of its total revenue from the U.S., only 4.5% comes from OSAT exports, and 13% when including EMS. Direct impacts are, therefore, quite limited. However, tax conditions remain unclear, including local content requirements, as no clear regional value content ceiling has been defined yet. Ultimately, management is more concerned about US consumption and will continue to monitor the situation.

### Upgraded to BUY with 2026 TP at THB26.5

We expect 3Q-4Q25 profit to recover from 2Q25, due to order recovery and no significant PMS inventory provision. If inventory is sold off, a reversal will show in the financial statements later. Management noted that SiC prices have bottomed out and are expanding beyond EVs. We have cut our 2025E net profit by 28% to THB949m and expect 2026 profits to grow by 37% y-y to THB1.29m. We roll forward TP to 2026 at THB26.5 (raising the PE from 15x to 18x to reflect that profits have passed the bottom) and upgrade our rating to BUY.

#### **KEY STOCK DATA**

YE Dec (THB m)	2024	2025E	2026E	2027E
Revenue	24,801	21,178	23,241	24,488
Net profit	(634)	949	1,297	1,447
EPS (THB)	(0.72)	1.07	1.46	1.63
vs Consensus (%)	-	(23.4)	(9.2)	(2.2)
EBITDA	2,631	2,575	3,255	3,497
Recurring net profit	911	711	1,297	1,447
Core EPS (THB)	1.03	0.80	1.46	1.63
Chg. In EPS est. (%)	-	(34.2)	(9.7)	(6.9)
EPS growth (%)	(54.7)	(22.0)	82.4	11.6
Core P/E (x)	22.5	28.9	15.8	14.2
Dividend yield (%)	3.2	2.8	3.8	4.2
EV/EBITDA (x)	4.1	3.8	3.0	2.7
Price/book (x)	8.0	0.7	0.7	0.7
Net debt/Equity (%)	(36.4)	(39.4)	(38.4)	(38.2)
ROE (%)	3.2	2.6	4.7	5.1



Share price performance	1 Month	3 Month	12 Month				
Absolute (%)	6.9	26.1	(43.1)				
Relative to country (%)	3.8	19.5	(38.8)				
Mkt cap (USD m)			630				
3m avg. daily turnover (USD m)							
Free float (%)			58				
Major shareholder	OMAC and re	lated compa	nies (29%)				
12m high/low (THB)		4	4.00/14.00				
Issued shares (m)			885.36				

Sources: Bloomberg consensus; FSSIA estimates



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#### Investment thesis

HANA is a leading EMS provider in Southeast Asia, with over 45 years of experience. Since its inception in 1978, even though it is mainly a midstream producer, its strength has come from its diversification to several end products, such as telecommunications, computers, consumer products, automobiles, radio frequency identification (RFID), and medical products. It also has manufacturing bases in several countries while constantly developing new products, i.e., SiC, to catch up with industrial customer demands, particularly in EVs.

## Company profile

HANA provides integrated electronic manufacturing services (EMS), including IC PCBA, RFID, and LCOS. It has seven manufacturing bases in Thailand, China, the US, Cambodia, and South Korea, with a total production area of 1.7m SQF and over 10,000 employees worldwide. At the end of 2024, HANA generated revenue from PCBA (64% of total revenue), followed by IC (27%), RFID (7%), and SiC (2%).

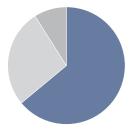
www.hanagroup.com

## Principal activities (revenue, 2024)

■ PCBA - 64.0 %

■ IC - 27.1 %

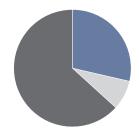
■ IC Assemble (RFID / Microdisplay)



Source: Hana Microelectronics

## **Major shareholders**

- OMAC and related companies -28.6 %
- LGT Bank (Singapore) Ltd 8.1
- Others 63.3 %



Source: Hana Microelectronics

# **Catalysts**

Potential catalysts for HANA's earnings growth in 2025 are 1) a recovery in the global economy and purchasing power, especially in China, 2) a decrease in raw material costs, and 3) a faster-than-expected capacity expansion.

#### Risks to our call

Downside and upside risks to our P/E-based TP include 1) a slower or faster-than-expected recovery in the global economy and purchasing power, 2) higher or lower-than-expected raw material costs, 3) the Baht strength or weakness, and 4) a higher minimum wage and labor shortages.

#### **Event calendar**

Date	Event
November 2025	3Q25 result announcement

# Key assumptions

	2025E	2026E	2027E
USD total revenue (USD m)	642	704	742
SiC revenue (USD m)	10	15	19
FX rate (USD/THB)	33	33	33
THB revenue growth (%)	(14.6)	9.7	5.4
Gross margin (%)	9.9	11.5	11.8

Source: FSSIA estimates

#### Earnings sensitivity

- For every THB1/USD increase, we estimate 2025 net profit to fall by 6.8%, and vice versa, all else being equal.
- For every 0.5% increase in GPM, we estimate 2025 net profit to rise by 5.7%, and vice versa, all else being equal.
- For every 0.2% increase in SG&A, we estimate 2025 net profit to fall by 1.3%, and vice versa, all else being equal.
- For every 10% increase in labor cost, we estimate 2025 net profit to fall by 6.6%, and vice versa, all else being equal.

Source: FSSIA estimates

# 2Q25 profit was poor, but likely to be the bottom of the year

HANA reported a disappointing 2Q25 net profit of only THB35m (-93% q-q, -91% y-y). Excluding FX and derivative losses of THB118m, core profit stood at THB153m (-31% q-q, -69% y-y).

USD revenue remained sluggish, and a stronger THB further pressured THB revenue, which declined 1% q-q and 23% y-y. The IC segment showed q-q recovery, but PCBA continued to decline both q-q and y-y. Meanwhile, the PMS plant in South Korea saw a steep decline (-36% q-q, -67% y-y).

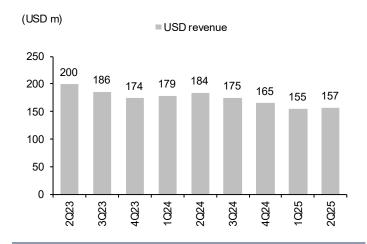
Gross margin fell to 9.4% (from 10.1% in 1Q25 and 12.4% in 2Q24), mainly due to baht appreciation and lower sales volume. Total expenses continued to rise, pushing SG&A to sales up to 8.4% (vs 8.0% in 1Q25 and 6.2% in 2Q24). The company also recognized a higher equity loss from FT1 (a joint venture with PTT), increasing to THB13.5m, up from THB1.7m in 1Q25.

Exhibit 1: HANA - 2Q25 earnings results

	2Q24	3Q24	4Q24	1Q25	2Q25	Cha	nge	1H24	1H25	Change	2024	2025E	Change	% 1H25
	(THB m)	(q-q%)	(y-y%)	(THB m)	(THB m)	(y-y%)	(THB m)	(THB m)	(y-y%)	to 2025E				
Total revenue	6,752	6,100	5,579	5,252	5,199	(1.0)	(23.0)	13,122	10,451	(20.4)	24,801	21,178	(14.6)	49.3
Cost of sales	5,918	5,722	5,284	4,722	4,709	(0.3)	(20.4)	11,601	9,431	(18.7)	22,607	19,082	(15.6)	49.4
Gross profit	834	378	295	530	490	(7.7)	(41.3)	1,521	1,020	(32.9)	2,194	2,097	(4.4)	48.7
SG&A	419	425	432	421	437	3.7	4.1	835	858	2.8	1,691	1,715	1.4	50.0
Operating profit	415	(46)	(137)	109	53	(51.5)	(87.2)	687	162	(76.4)	503	381	(24.2)	42.6
Other income	80	106	71	102	81	(21.0)	1.5	175	183	4.5	352	318	(9.7)	57.6
Tax expense	31	16	13	23	20	(13.8)	(36.3)	58	43	(26.1)	86	88	2.0	48.4
Other gain (-loss)	(111)	345	(1740)	258	(118)	nm	nm	(150)	140	(193.6)	(1545)	238	nm	58.8
Reported net profit	376	406	(1729)	478	35	(92.7)	(90.8)	690	513	(25.6)	(634)	949	nm	54.0
Core profit	487	61	11	220	153	(30.6)	(68.6)	839	373	(55.6)	911	711	(22.0)	52.5
Key Ratios (%)						(ppt)	(ppt)							
Gross margin	12.4	6.2	5.3	10.1	9.4	4.8	(0.7)	11.6	9.8	(1.8)	8.8	9.9	1.1	
SG&A to sales	6.2	7.0	7.7	8.0	8.4	0.3	1.5	6.4	8.2	1.8	6.8	8.1	1.3	
Operating margin	6.1	(0.8)	(2.5)	2.1	1.0	4.5	(2.2)	5.2	1.6	(3.7)	2.0	1.8	(0.2)	
Net margin	5.6	6.7	(31.0)	9.1	0.7	40.1	4.2	5.3	4.9	(0.3)	(2.6)	4.5	7.0	
Core margin	7.2	1.0	0.2	4.2	2.9	4.0	(1.3)	6.4	3.6	(2.8)	3.7	3.4	(0.3)	
Operating statistics (TH	HB m)													
USD revenue (USD mn)	184	175	165	155	157	1.3	(14.7)	363	312	(14.0)	703	642	(8.7)	48.6
THB/USD	36.7	34.8	34.0	34.0	33.2	(2.4)	(9.5)	36.1	33.6	(7.0)	35.2	33.0	(6.2)	101.8
PCBA - Lamphun	3,232	2,952	2,792	2,719	2,588	(4.8)	(19.9)	6,409	5,307	(17.2)	12,153	10,884	(10.4)	48.8
PCBA - Jiaxing	1,004	776	808	649	599	(7.6)	(40.3)	1,888	1,248	(33.9)	3,472	3,514	1.2	35.5
PCBA - Cambodia	70	79	38	76	93	22.9	32.6	131	168	28.7	248	148	(40.1)	113.5
IC - Ayuttaya	1,604	1,530	1,194	1,186	1,322	11.5	(17.6)	3,228	2,508	(22.3)	5,952	8,825	48.3	28.4
IC - Jiaxing	168	178	273	192	239	24.4	42.0	293	431	47.1	744	1,279	71.8	33.7
HMT - USA	504	458	364	350	306	(12.6)	(39.3)	914	656	(28.3)	1,736	1,653	(4.8)	39.7
IC - South Korea	170	128	108	81	52	(36.2)	(69.6)	260	132	(49.1)	496	330	(33.5)	40.1
Total IC revenue	2,445	2,294	1,940	1,809	1,918	6.1	(21.5)	4,695	3,727	(20.6)	8,989	7,143	(20.5)	52.2
Total PCBA revenue	4,306	3,806	3,639	3,443	3,281	(4.7)	(23.8)	8,428	6,724	(20.2)	11,029	12,003	8.8	56.0

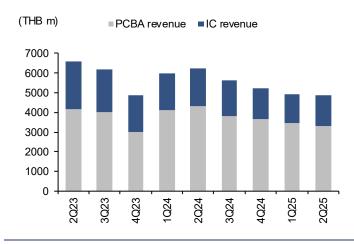
 $Sources: HANA, \,FSSIA's \,\, compilation$ 

### **Exhibit 2: Quarterly USD revenue**



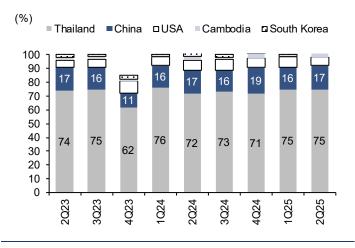
Sources: HANA, FSSIA's compilation

Exhibit 4: Quarterly revenue by product segment



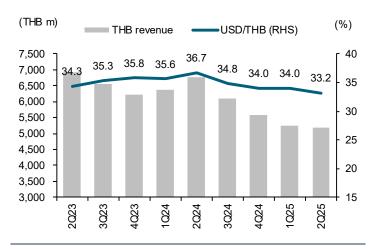
Sources: HANA, FSSIA's compilation

Exhibit 6: Quarterly revenue by production base



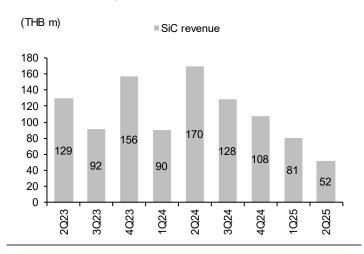
Sources: HANA, FSSIA's compilation

**Exhibit 3: Quarterly THB revenue** 



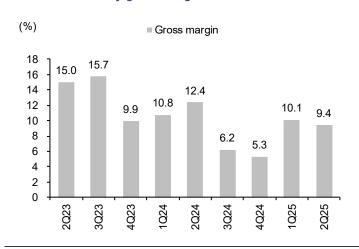
Sources: HANA, FSSIA's compilation

**Exhibit 5: Quarterly SiC revenue** 



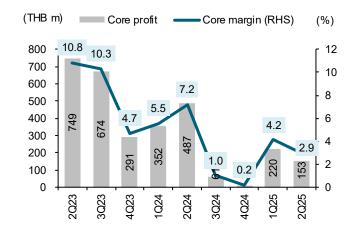
Sources: HANA, FSSIA's compilation

Exhibit 7: Quarterly gross margin

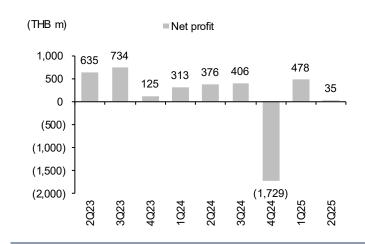


Sources: HANA, FSSIA's compilation

## **Exhibit 8: Quarterly core profit**



**Exhibit 9: Quarterly net profit** 



Sources: HANA, FSSIA's compilation

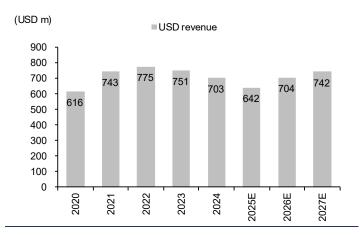
Sources: HANA, FSSIA's compilation

Exhibit 10: Changes in key assumptions for HANA

		Current			Previous			Change	
	2025E	2026E	2027E	2025E	2026E	2027E	2025E	2026E	2027E
	(THB m)	(THB m)	(%)	(%)	(%)				
Total sale value (THB m)	21,178	23,241	24,488	23,009	24,530	25,523	(8.0)	(5.3)	(4.1)
Costs	19,082	20,568	21,599	20,708	21,783	22,613	(7.9)	(5.6)	(4.5)
Gross profit	2,097	2,673	2,890	2,301	2,747	2,910	(8.9)	(2.7)	(0.7)
SG&A expense	1,715	1,743	1,837	1,599	1,705	1,774	7.3	2.2	3.5
Interest expense	69	62	52	69	62	52	0.0	0.0	0.0
Reported net profit	949	1,297	1,447	1,318	1,436	1,553	(28.0)	(9.7)	(6.9)
Core profit	711	1,297	1,447	1,080	1,436	1,553	(34.2)	(9.7)	(6.9)
EPS (THB/share)	1.07	1.46	1.63	1.49	1.62	1.75	(28.0)	(9.7)	(6.9)
Key ratios (%)									
Total revenue growth	(14.6)	9.7	5.4	(7.2)	6.6	4.0	(7.4)	3.1	1.3
Net profit growth	nm	36.6	11.6	nm	9.0	8.2	nm	27.7	3.4
Core profit growth	(22.0)	82.4	11.6	18.6	33.0	8.2	(40.5)	49.4	3.4
Gross margin	9.9	11.5	11.8	10.0	11.2	11.4	(0.1)	0.3	0.4
SG&A to sales	8.1	7.5	7.5	7.0	7.0	7.0	1.2	0.5	0.5
Net margin	4.5	5.6	5.9	5.7	5.9	6.1	(1.2)	(0.3)	(0.2)
Core margin	3.4	5.6	5.9	4.7	5.9	6.1	(1.3)	(0.3)	(0.2)
Operating statistics									
Total revenue (USD m)	642	704	742	697	743	773	(8.0)	(5.3)	(4.1)
SiC revenue (USD m)	10	15	19	10	13	15	0.0	20.0	25.0
FX rate (THB/USD)	33.0	33.0	33.0	33.0	33.0	33.0	0.0	0.0	0.0

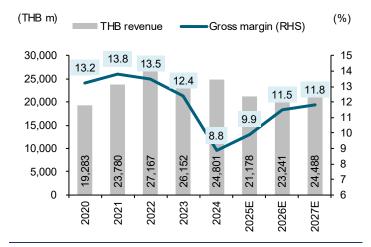
Source: FSSIA estimates

#### Exhibit 11: USD revenue



Sources: HANA, FSSIA estimates

#### Exhibit 13: Total revenue and gross margin



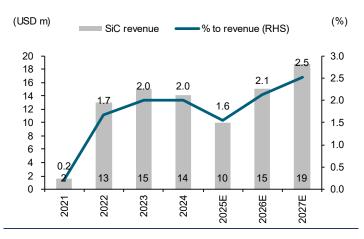
Sources: HANA, FSSIA estimates

## Exhibit 15: Historical P/E band



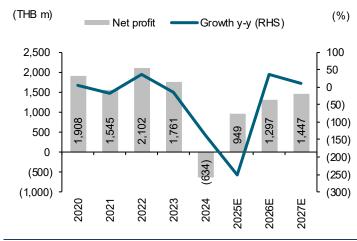
Sources: Bloomberg; FSSIA estimates

Exhibit 12: SiC revenue and % to total revenue



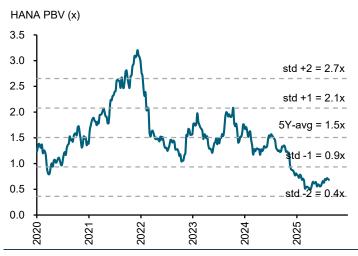
Sources: HANA, FSSIA estimates

### Exhibit 14: Net profit and growth



Sources: HANA, FSSIA estimates

#### Exhibit 16: Historical P/BV band



Sources: Bloomberg; FSSIA estimates

## **Financial Statements**

Hana Microelectronics

Profit and Loss (THB m) Year Ending Dec	2023	2024	2025E	2026E	2027E
Revenue	26,152	24,801	21,178	23,241	24,488
Cost of goods sold	(22,910)	(22,607)	(19,082)	(20,568)	(21,599)
Gross profit	3,242	2,194	2,097	2,673	2,890
Other operating income	439	352	318	349	367
Operating costs	(1,631)	(1,691)	(1,715)	(1,743)	(1,837)
Operating EBITDA	3,752	2,631	2,575	3,255	3,497
Depreciation	(1,702)	(1,777)	(1,877)	(1,977)	(2,077)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	2,050	855	699	1,278	1,420
Net financing costs	45	129	100	124	143
Associates	0	13	0	0	0
Recurring non-operating income	0 (240)	13	0	0	0
Non-recurring items  Profit before tax	(249)	(1,545)	238	0	0 4 EG4
Tax	<b>1,846</b> (85)	(548)	<b>1,037</b> (88)	<b>1,402</b>	<b>1,564</b> (117)
Profit after tax	1,761	(86) <b>(634)</b>	949	(105) <b>1,297</b>	1,447
Minority interests	0	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	1,761	(634)	949	1,297	1,447
Non-recurring items & goodwill (net)	249	1,545	(238)	0	0
Recurring net profit	2,009	911	711	1,297	1,447
Per share (THB)					
Recurring EPS *	2.27	1.03	0.80	1.46	1.63
Reported EPS	1.99	(0.72)	1.07	1.46	1.63
DPS	1.00	0.75	0.64	0.88	0.98
Diluted shares (used to calculate per share data)	885	885	885	885	885
Growth					
Revenue (%)	(3.7)	(5.2)	(14.6)	9.7	5.4
Operating EBITDA (%)	(7.5)	(29.9)	(2.1)	26.4	7.4
Operating EBIT (%)	(15.5)	(58.3)	(18.2)	82.9	11.1
Recurring EPS (%)	(23.8)	(54.7)	(22.0)	82.4	11.6
Reported EPS (%)	(23.9)	nm	nm	36.6	11.6
Operating performance					
Gross margin inc. depreciation (%)	12.4	8.8	9.9	11.5	11.8
Gross margin exc. depreciation (%)	18.9	16.0	18.8	20.0	20.3
Operating EBITDA margin (%)	14.3	10.6	12.2	14.0	14.3
Operating EBIT margin (%)	7.8	3.4	3.3	5.5	5.8
Net margin (%)	7.7	3.7	3.4	5.6	5.9
Effective tax rate (%)	4.6	(15.7)	8.5	7.5	7.5
Dividend payout on recurring profit (%)	44.1	72.5	80.1	60.0	60.0
Interest cover (X)	(45.4)	(6.7)	(7.0)	(10.3)	(9.9)
Inventory days	158.6	140.8	139.0	122.6	124.2
Debtor days	70.9	71.1	71.1	62.1	63.3
Creditor days	65.0	56.2	59.8	53.3	54.0
Operating ROIC (%)	7.7	3.5	3.3	6.2	6.7
ROIC (%) ROE (%)	7.5 7.6	3.4 3.2	3.1 2.6	5.8 4.7	6.2 5.1
ROE (%) ROA (%)	7.6 6.1	3.2 2.4	2.6 1.9	4.7 3.7	4.0
* Pre-exceptional, pre-goodwill and fully diluted	0.1	2.4	1.9	3.1	4.0
	2002	2024	20255	20205	20275
Revenue by Division (THB m)	2023	2024	2025E	2026E	2027E
PCBA	15,956	15,866	16,659	17,992	19,971
IC	8,235	6,709	2,182	2,724	1,715
IC Assemble (RFID / Microdisplay)	1,961	2,226	2,337	2,524	2,802

Sources: Hana Microelectronics; FSSIA estimates

## **Financial Statements**

Hana Microelectronics

Hana Microelectronics					
Cash Flow (THB m) Year Ending Dec	2023	2024	2025E	2026E	2027E
Recurring net profit	2,009	911	711	1,297	1,447
Depreciation	1,702	1,777	1,877	1,977	2,077
Associates & minorities	-	-	-	-	-
Other non-cash items	(241)	(1,554)	238	0	0
Change in working capital	(491)	2,215	1,282	(601)	(387)
Cash flow from operations	2,980	3,348	4,107	2,672	3,136
Capex - maintenance	(2.550)	- (E07)	(2,000)	(2,000)	(2,000)
Capex - new investment Net acquisitions & disposals	(2,550)	(597)	(2,000)	(2,000)	(2,000)
Other investments (net)	162	(324)	(249)	(31)	(141)
Cash flow from investing	(2,389)	(921)	(2,249)	(2,031)	(2,141)
Dividends paid	(859)	(701)	(577)	(778)	(868)
Equity finance	4,588	0	0	0	0
Debt finance	1,280	(435)	224	(153)	(145)
Other financing cash flows	(342)	(633)	(311)	62	37
Cash flow from financing	4,667	(1,769)	(664)	(869)	(975)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	1,195	0	0	0
Net other adjustments	0	1,195	0	0	0
Movement in cash	5,258	1,852	1,194	(228)	19
Free cash flow to firm (FCFF)	643.40	2,490.95	1,927.75	703.67	1,047.35
Free cash flow to equity (FCFE)	1,529.93	2,553.10	1,771.28	550.26	887.36
Per share (THB)					
FCFF per share	0.73	2.81	2.18	0.79	1.18
FCFE per share	1.73	2.88	2.00	0.62	1.00
Recurring cash flow per share	3.92	1.28	3.19	3.70	3.98
Balance Sheet (THB m) Year Ending Dec	2023	2024	2025E	2026E	2027E
Fangible fixed assets (gross)	29,984	30,403	32,403	34,403	36,403
Less: Accumulated depreciation	(18,283)	(21,076)	(22,952)	(24,929)	(27,006)
Fangible fixed assets (net)	11,701	9,328	9,451	9,474	9,398
ntangible fixed assets (net)	0	0	0	0	0
ong-term financial assets	72	528	700	700	700
nvest. in associates & subsidiaries	-	-	-	-	-
Cash & equivalents	8,893	10,745	11,939	11,711	11,731
NC receivable	5,178	4,481	3,771	4,139	4,361
nventories	8,969	7,096	6,012	6,480	6,805
Other current assets	119	98	106	116	122
Current assets	23,159	22,419	21,828	22,446	23,019
Other assets	373	241	318	349	490
Fotal assets	<b>35,306</b> 29.147	32,516	32,297	32,969	33,607
Common equity Minorities etc.	29,147	27,078 0	27,525 0	28,044 0	28,623 0
Total shareholders' equity	29,147	27,078	27,525	28,044	28,623
ong term debt	204	336	306	276	246
Other long-term liabilities	921	1,004	635	697	735
Long-term liabilities	1,125	1,340	941	973	981
A/C payable	3,391	3,026	2,614	2,818	2,959
Short term debt	1,105	557	793	670	555
Other current liabilities	538	515	424	465	490
Current liabilities	5,034	4,098	3,830	3,952	4,003
Total liabilities and shareholders' equity	35,306	32,516	32,297	32,969	33,607
Net working capital	10,338	8,133	6,852	7,453	7,840
nvested capital	22,485	18,230	17,321	17,976	18,428
Includes convertibles and preferred stock which is being	reated as debt				
Per share (THB)					
Book value per share	32.92	30.58	31.09	31.68	32.33
DOOK value per share	32.92	30.58	31.09	31.68	32.33
•	32.32				
Гangible book value per share	32.32				
Fangible book value per share Financial strength Net debt/equity (%)	(26.0)	(36.4)	(39.4)	(38.4)	(38.2)
Fangible book value per share Financial strength Net debt/equity (%) Net debt/total assets (%)	(26.0) (21.5)	(30.3)	(33.6)	(32.7)	(32.5)
Fangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)	(26.0) (21.5) 4.6	(30.3) 5.5	(33.6) 5.7	(32.7) 5.7	(32.5) 5.7
Fangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)	(26.0) (21.5)	(30.3)	(33.6)	(32.7)	(32.5)
Fangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)	(26.0) (21.5) 4.6	(30.3) 5.5	(33.6) 5.7	(32.7) 5.7	(32.5) 5.7
Fangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)	(26.0) (21.5) 4.6 (89.4)	(30.3) 5.5 (23.3)	(33.6) 5.7 (36.7)	(32.7) 5.7 (19.6)	(32.5) 5.7 (19.1) 2027E
Fangible book value per share  Financial strength  Net debt/equity (%)  Net debt/hotal assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *	(26.0) (21.5) 4.6 (89.4)	(30.3) 5.5 (23.3) 2024	(33.6) 5.7 (36.7) 2025E	(32.7) 5.7 (19.6) 2026E	(32.5) 5.7 (19.1) 2027E 14.2
Fangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)	(26.0) (21.5) 4.6 (89.4) 2023 10.2 11.7	(30.3) 5.5 (23.3) 2024 22.5 25.8 (32.4)	(33.6) 5.7 (36.7) 2025E 28.9 33.0 21.6	(32.7) 5.7 (19.6) 2026E 15.8 18.1 15.8	(32.5) 5.7 (19.1) 2027E 14.2 16.2 14.2
Fangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  /aluation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)  Dividend yield (%)	(26.0) (21.5) 4.6 (89.4) 2023 10.2 11.7 11.7	(30.3) 5.5 (23.3) 2024 22.5 25.8 (32.4) 3.2	(33.6) 5.7 (36.7) 2025E 28.9 33.0 21.6 2.8	(32.7) 5.7 (19.6) 2026E 15.8 18.1 15.8 3.8	(32.5) 5.7 (19.1) 2027E 14.2 16.2 14.2 4.2
Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Reported P/E (x)  Dividend yield (%)  Price/book (x)	(26.0) (21.5) 4.6 (89.4) 2023 10.2 11.7 11.7 4.3 0.7	(30.3) 5.5 (23.3) 2024 22.5 25.8 (32.4) 3.2 0.8	(33.6) 5.7 (36.7) 2025E 28.9 33.0 21.6 2.8 0.7	(32.7) 5.7 (19.6) 2026E 15.8 18.1 15.8 3.8 0.7	(32.5) 5.7 (19.1) 2027E 14.2 16.2 14.2 4.2 0.7
Fangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  /aluation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)  Dividend yield (%)  Price/book (x)  Price/tangible book (x)	(26.0) (21.5) 4.6 (89.4) 2023 10.2 11.7 11.7 4.3 0.7 0.7	(30.3) 5.5 (23.3) 2024 22.5 25.8 (32.4) 3.2 0.8 0.8	(33.6) 5.7 (36.7) 2025E 28.9 33.0 21.6 2.8 0.7 0.7	(32.7) 5.7 (19.6) 2026E 15.8 18.1 15.8 3.8 0.7 0.7	(32.5) 5.7 (19.1) 2027E 14.2 16.2 14.2 4.2 0.7 0.7
Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)  Dividend yield (%)  Price/book (x)  Price/tangible book (x)  EV/EBITDA (x) **	(26.0) (21.5) 4.6 (89.4) 2023 10.2 11.7 11.7 4.3 0.7 0.7 3.5	(30.3) 5.5 (23.3) 2024 22.5 25.8 (32.4) 3.2 0.8 0.8 4.1	(33.6) 5.7 (36.7) 2025E 28.9 33.0 21.6 2.8 0.7 0.7 3.8	(32.7) 5.7 (19.6) 2026E 15.8 18.1 15.8 3.8 0.7 0.7 3.0	(32.5) 5.7 (19.1) 2027E 14.2 16.2 14.2 4.2 0.7 0.7 2.7
Tangible book value per share  Financial strength  Net debt/equity (%)  Net debt/total assets (%)  Current ratio (x)  CF interest cover (x)  Valuation  Recurring P/E (x) *  Recurring P/E @ target price (x) *  Reported P/E (x)  Dividend yield (%)  Price/book (x)  Price/tangible book (x)	(26.0) (21.5) 4.6 (89.4) 2023 10.2 11.7 11.7 4.3 0.7 0.7	(30.3) 5.5 (23.3) 2024 22.5 25.8 (32.4) 3.2 0.8 0.8	(33.6) 5.7 (36.7) 2025E 28.9 33.0 21.6 2.8 0.7 0.7	(32.7) 5.7 (19.6) 2026E 15.8 18.1 15.8 3.8 0.7 0.7	(32.5) 5.7 (19.1) 2027E 14.2 16.2 4.2 0.7 0.7

Sources: Hana Microelectronics; FSSIA estimates

# **Hana Microelectronics PCL (HANA TB)**

FSSIA ESG rating

★ ★ ★

## Exhibit 17: FSSIA ESG score implication

56.35 /100

Rating	Score	Implication
****	>79-100	Leading its industry peers in managing the most significant ESG risks which not only better cost efficiency but also lead to higher profitability.
***	>59-79	A mixed track record of managing the most significant ESG risks and opportunities relative to industry peers.
***	>39-59	Relevant ESG materiality matrix has been constructively addressed, well-managed and incorporated into day-to-day operations, in which targets and achievements are evaluated annually.
**	>19-39	Relevant ESG materiality matrix has been identified with key management in charge for progress to be followed up on and to provide intensive disclosure. Most targets are conventional and achievable.
*	1-19	The company has adopted the United Nations Sustainable Development Goals (UN SDGs), established sustainability management guidelines and fully complies with regulations or ESG suggested guidance from related organizations such as the SET and SEC.

Sources: FSSIA estimates

# Exhibit 18: ESG – peer comparison

	FSSIA	Domestic ratings					Global ratings						Bloomberg		
	ESG score	DJSI	SET ESG	THSI	CG score	AGM level	Thai CAC	Morningstar ESG risk	ESG Book	MSCI	Moody's	Refinitiv	S&P Global	ESG score	Disclosure score
SET100	69.20	5.34	4.40	4.40	4.76	4.65	3.84	Medium	51.76	BBB	20.87	58.72	63.91	3.72	28.17
Coverage	67.12	5.11	4.15	4.17	4.83	4.71	3.53	Medium	52.04	BB	16.97	56.85	62.09	3.40	31.94
DELTA	87.59	Υ	Υ	Υ	5.00	5.00	Certified	Low	68.81	AA		91.19	74.00	4.15	
HANA	56.35		Y	Υ	5.00	5.00	Certified	Negligible	56.93	BBB		44.01	31.00	1.81	
KCE	45.77				5.00	5.00	Certified	Medium	52.70			61.53	16.00	2.16	52.98

Sources: <u>SETTRADE.com</u>; FSSIA's compilation

## Exhibit 19: ESG score by Bloomberg

FY ending Dec 31	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
ESG financial materiality scores - ESG score	0.91	0.98	0.99	1.39	1.61	1.81	_
BESG environmental pillar score	0.00	0.00	0.00	0.00	0.00	0.00	_
BESG social pillar score	0.37	0.37	0.37	1.14	1.63	1.66	_
BESG governance pillar score	3.51	3.89	3.96	3.95	3.95	4.88	_
ESG disclosure score	25.98	25.98	25.98	30.50	36.02	36.02	_
Environmental disclosure score	1.66	1.66	1.66	7.13	22.92	22.92	_
Social disclosure score	15.90	15.90	15.90	24.00	24.79	24.79	_
Governance disclosure score	60.26	60.26	60.26	60.26	60.26	60.26	_
Environmental							
Emissions reduction initiatives	Yes						
Climate change policy	No	No	No	Yes	Yes	Yes	Yes
Climate change opportunities discussed	No	No	No	Yes	Yes	Yes	Yes
Risks of climate change discussed	No						
GHG scope 1	_	_	_	_	1	1	1
GHG scope 2 location-based	_	_	_	26	26	23	23
GHG Scope 3	_	_	_	_	_	_	_
Carbon per unit of production	_	_	_	_	_	_	_
Biodiversity policy	No						
Energy efficiency policy	No	No	No	No	No	No	Yes
Total energy consumption	_	_	_	_	_	_	_
Renewable energy use	_	_	_	_	_	_	_
Electricity used	_	_	_	_	_	_	_
Fuel used - natural gas	_	_	_	_	_	_	_

Sources: Bloomberg; FSSIA's compilation

Exhibit 20: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Fuel used - crude oil/diesel	No						
Waste reduction policy	Yes						
Hazardous waste	_	_	_	_	_	_	_
Total waste	_	_	_	_	_	_	_
Waste recycled	_	_	_	_	_	_	_
Waste sent to landfills	_	_	_	_	_	_	_
Environmental supply chain management	No	No	No	No	Yes	Yes	Yes
Water policy	Yes						
Water consumption					_	_	_
Social							
Human rights policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Policy against child labor	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Quality assurance and recall policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Consumer data protection policy	No	No	No	No	No	No	N
Equal opportunity policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Gender pay gap breakout	No	No	No	No	No	No	N
Pct women in workforce	_	_	_	73	73	72	-
Pct disabled in workforce	_	_	_	1	1	1	-
Business ethics policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Anti-bribery ethics policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Health and safety policy	Yes	Yes	Yes	Yes	Yes	Yes	Υe
Lost time incident rate - employees	_	_	_	0	0	0	-
Total recordable incident rate - employees	_	_	_	_	_	_	-
Training policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Fair remuneration policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Number of employees – CSR	4,038	3,947	3,969	3,957	3,742	3,636	3,32
Employee turnover pct	_	_	_	_	_	_	-
Total hours spent by firm - employee training	199,881	165,774	182,574	197,850	179,616	207,252	150,14
Social supply chain management	No	No	No	No	Yes	Yes	Ye
Governance							
Board size	6	6	6	6	6	6	
No. of independent directors (ID)	3	3	3	3	3	3	
No. of women on board	1	1	1	1	1	1	
No. of non-executive directors on board	3	3	3	3	3	3	
Company conducts board evaluations	Yes	Yes	Yes	Yes	Yes	Yes	Ye
No. of board meetings for the year	7	7	7	7	7	7	
Board meeting attendance pct	100	100	100	100	100	100	10
Board duration (years)	_	_	_	_	_	_	-
Director share ownership guidelines	No	No	No	No	No	No	N
Age of the youngest director	56	53	54	55	56	57	ţ
Age of the oldest director	82	72	73	73	74	75	6
No. of executives / company managers	5	5	5	5	5	5	
No. of female executives	1	1	1	1	1	1	
Executive share ownership guidelines	No	No	No	No	No	No	N
Size of audit committee	3	3	3	3	3	3	
No. of ID on audit committee	3	3	3	3	3	3	
Audit committee meetings	4	4	4	4	4	4	
Audit meeting attendance %	100	100	100	100	100	100	10
Size of compensation committee	0	0	0	0	0	0	
No. of ID on compensation committee	_	_	_	_	_	_	
No. of compensation committee meetings	_	_	_	_	_	_	
Compensation meeting attendance %	_	_	_	_	_	_	
Size of nomination committee	3	3	3	3	3	3	
No. of nomination committee meetings	3	2	3	3	2	3	
Nomination meeting attendance %	100	100	100	100	100	100	10
Sustainability governance							
Verification type	No	No	No	No	No	No	1

Sources: Bloomberg; FSSIA's compilation

# **Disclaimer for ESG scoring**

ESG score	Methodolog	у			Rating						
The Dow Jones Sustainability Indices (DJSI) By S&P Global	process base from the ann	ed on the comp ual S&P Globa	ransparent, rules-based panies' Total Sustainabili Il Corporate Sustainabilit nies within each industry	ity Scores resulting ty Assessment (CSA).	Be a member and invited to the annual S&P Global Corporate Sustainability Assessment (CSA) for DJSI. Companies with an S&P Global ESG Score of less than 45% of the S&P Global ESG Score of the highest scoring company are disqualified. The constituents of the DJSI indices are selected from the Eligible Universe.						
SET ESG Ratings List (SETESG) by The Stock Exchange of Thailand (SET)	managing bu Candidates r 1) no irregula float of >150 up capital. So 70%; 2) inde wrongdoing r	siness with tra nust pass the partrading of the shareholders, ome key disqua pendent director related to CG, s	nsibility in Environmental insparency in Governance oreemptive criteria, with e board members and ex- and combined holding in alifying criteria include: 1 ors and free float violatic social & environmental in arnings in red for > 3 year	To be eligible for <b>SETESG inclusion</b> , verified data must be scored at a minimum of 50% for each indicator, unless the company is a part of DJSI during the assessment year. The scoring will be fairly weighted against the nature of the relevant industry and materiality. <b>SETESG Index</b> is extended from the SET ESG Ratings companies whose 1) market capitalization > THB5b (~USD150b); 2) free float >20%; and 3) liquidity >0.5% of paid-up capital for at least 9 out of 12 months. The SETTHSI Index is a market capitalisation-weighted index, cap 5% quarterly weight at maximum, and no cap for number of stocks.							
CG Score by Thai Institute of Directors Association (Thai IOD)	annually by t Thailand (SE	he Thai IOD, w	in sustainable developn vith support from the Sto s are from the perspectiv	Scores are rated in six categories: 5 for Excellent (90-100), 4 for Very Good (80-89), 3 for Good (70-79), 2 for Fair (60-69), 1 for Pass (60-69), and not rated for scores below 50. Weightings include: 1) the rights; 2) and equitable treatment of shareholders (weight 25% combined); 3) the role of stakeholders (25%); 4) disclosure & transparency (15%); and 5) board responsibilities (35%).							
AGM level By Thai Investors Association (TIA) with support from the SEC	treatment are transparent a out of five the criteria cover date (45%), a circulation of st exercised. The and verifiability	untifies the extent to which shareholders' rights and equitable ment are incorporated into business operations and information is parent and sufficiently disclosed. All form important elements of two if five the CG components to be evaluated annually. The assessment is a cover AGM procedures before the meeting (45%), at the meeting (45%), and after the meeting (10%). (The first assesses 1) advance atton of sufficient information for voting; and 2) facilitating how voting rights can be sed. The second assesses 1) the ease of attending meetings: 2) transparency erifiability; and 3) openness for Q&A. The third involves the meeting minutes that it contain discussion issues, resolutions and voting results.)				The scores are classified into four categories: 5 for Excellent (100), 4 for Very Good (90-99), 3 for Fair (80-89), and not rated for scores below 79.					
Thai CAC By Thai Private Sector Collective Action Against Corruption (CAC)	establishmer policies. The (Companies de Declaration of I Certification, in managers and	nt of key contro Certification is eciding to become Intent to kick off a cluding risk asse	hecklist include corruptions, and the monitoring and good for three years.  a CAC certified member stan 18-month deadline to subsement, in place of policy and blishment of whistleblowing stakeholders.)	nd developing of  art by submitting a  mit the CAC Checklist for ad control, training of	The document will be reviewed by a committee of nine professionals. A passed Checklist will move for granting certification by the CAC Council approvals whose members are twelve highly respected individuals in professionalism and ethical achievements.						
Morningstar Sustainalytics	based on an risk is unmar regulatory filing	The Sustainalytics' ESG risk rating provides an overall company score based on an assessment of how much of a company's exposure to ESG risk is unmanaged. Sources to be reviewed include corporate publications and regulatory filings, news and other media, NGO reports/websites, multi-sector				nanaged, the	score is the sum higher ESG risk	is scored.			
		mpany feedback, ality & peer revie	pany feedback, ESG controversies, issuer feedback on draft ESG			<b>Low</b> 10-20	Medium 20-30	High 30-40	Severe 40+		
ESG Book	positioned to the principle helps explain over-weightin	outperform ov of financial ma ı future risk-adj	ustainable companies the rer the long term. The me teriality including informa- justed performance. Mat h higher materiality and i ly basis.	ethodology considers ation that significantly eriality is applied by	0-10 10-20 20-30 30-40 40+  The total ESG score is calculated as a weighted sum of the features scores using materiality-based weights. The score is scaled between 0 and 100 with higher scores indicating better performance.						
MSCI				anagement of financially i					nethodology to		
	AAA	8.571-10.000		their exposure to Loo ha	sks and now wen	triey manage	tilose lisks leidti	ve to peers.			
	AA	7.143-8.570	Leader:	leading its industry in ma	anaging the most si	gnificant ESG ris	sks and opportunitie	s			
	A	5.714-7.142									
	BBB	4.286-5.713	Average:	a mixed or unexceptiona industry peers	nal track record of managing the most significant ESG risks and opportunities relative to						
	ВВ	2.857-4.285		muusuy peers							
	В	1.429-2.856	Lamazzala	Lamada e de la de la de	all and the letter			4 E00 = 1-1			
	ccc	0.000-1.428	Laggard:	lagging its industry base	sed on its high exposure and failure to manage significant ESG risks						
Moody's ESG solutions	believes that	a company int		take into account ESG ol to its business model and medium to long term.							
		olicly available	and auditable data. The	a company's relative ES score ranges from 0 to 7 re 0 to 25 = poor; >25 to 50 =	100 on relative E	SG performan	ce and insufficie	nt degree of t			
Refinitiv ESG rating	•	terial ESG data			ormanas an and	management	of ESC ricks, on		1		
	reporting ma	bal ESG Score		suring a company's perfo sification. The score rang			oi Log lisks, op	oortunities, ar	id impacts		
rating	reporting ma	bal ESG Score its peers within	n the same industry clas Bloomberg score evalua score is based on Bloom		ges from 0 to 100 regated Environn ncial materiality.	nental, Social a	and Governance a weighted gener	(ESG) perfor	mance. The (power mean)		

Rating regarding the sustainable development of Thai listed companies, both on the SET and MAI, are publicly available on the website of the Securities and Exchange Commission of Thailand (SEC). Currently, ratings available are 1) "CG Score"; 2) "AGM Level"; 3) "Thai CAC"; and 4) THSI. The ratings are updated on an annual basis. FSSIA does not confirm nor certify the accuracy of such ratings.

Source: FSSIA's compilation

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#### Sureeporn Teewasuwet FSS International Investment Advisory Securities Co., Ltd

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#### History of change in investment rating and/or target price



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
07-Mar-2023 22-May-2023 21-Aug-2023 17-Oct-2023	HOLD BUY BUY BUY	60.00 46.00 67.00 64.00	16-Nov-2023 05-Mar-2024 23-Aug-2024 20-Nov-2024	BUY BUY BUY HOLD	60.00 50.00 43.00 32.00	03-Mar-2025 19-May-2025	HOLD HOLD	18.00 22.00

Sureeporn Teewasuwet started covering this stock from 07-Mar-2023

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Hana Microelectronics	HANA TB	THB 23.20	BUY	Downside and upside risks to our P/E-based TP include 1) a slower or faster-than- expected recovery in the global economy and purchasing power, 2) higher or lower-than- expected raw material costs, 3) the Baht strength or weakness, and 4) a higher minimum wage and labor shortages.

Source: FSSIA estimates

#### **Additional Disclosures**

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finansia Syrus Securities Public Company Limited.

All share prices are as at market close on 21-Aug-2025 unless otherwise stated.

#### RECOMMENDATION STRUCTURE

#### Stock ratings

Stock ratings are based on absolute upside or downside, which we define as (target price\* - current price) / current price.

BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

\* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

#### **Industry Recommendations**

Overweight. The analyst expects the fundamental conditions of the sector to be positive over the next 12 months.

Neutral. The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months.

Underweight. The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

#### **Country (Strategy) Recommendations**

**Overweight (O).** Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

**Neutral (N).** Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

**Underweight (U).** Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.