

Maybank Investment Bank

Malaysia Banking

4.0% YoY loan growth in Oct 2023

4.6% industry loan growth forecast for 2024E

The drag on the non-HH loan front would imply that industry loan growth could fall short of our forecast of 4.6% for the year. On expectations of faster GDP growth in 2024E, we maintain our 2024E industry loan growth forecast of 4.6%. Positively, the slide in CASA appears to be contained, while asset quality is still benign. We maintain a POSITIVE on the sector, with BUYs on CIMB, PBK, AMMB, HLBK, HLFG and ABMB.

Loan applications expand for second consecutive mth

Industry loans growth slowed to just 4.0% YoY in Oct 2023 from 4.3% YoY in Sep 2023. While household (HH) loan growth held up and improved from 5.6% YoY in Sep 2023 to 5.8% YoY in Oct 2023, the drag was from non-HH loan growth, which slowed even further to 1.5% YoY from 2.6% YoY, as repayments outpaced disbursements. Loan applications expanded at a double-digit pace of 11.4% YoY in Sep 2023 and 25.8% YoY in Oct 2023. In the HH segment, residential property loan applications rose 19% YoY after having contracted over the previous four consecutive months. Loan applications rose YoY across all consumer loan segments except for credit cards. Construction and working capital loan applications jumped 29% and 11.5% YoY respectively

CASA turns the corner

Deposit growth improved slightly to 2.8% YoY in Oct 2023 from 2.4% YoY in Sep 2023, still lagging behind loan growth. Having contracted YoY over the previous nine consecutive months, CASA finally eked out a very small 0.1% YoY growth in October, finally turning the corner. The industry's CASA ratio was 29.3% end-Oct 2023. This compares against a pre-COVID CASA ratio of 26.5% end-Dec 2019 as well as a peak CASA ratio of 32.9% in Apr 2022.

Asset quality still well behaved

Impaired loans continued to rise moderately in absolute terms, up 3.4% YTD. Nevertheless, the industry's gross impaired loans (GIL) ratio improved to 1.70% in Oct 2023 from 1.72% in Sep 2023. This compares to a pre-COVID ratio of 1.51% end-Dec 2019.

POSITIVE

Analyst

Desmond Ching, BFP, FCA (603) 2297 8680 desmond.chng@maybank-ib.com

Banking Sector - Peer Valuation Summary

Stock	Rec	Shr px	Mkt cap	TP	PER (x)	PER (x)	P/B (x)	P/B (x)	ROAE (%)	ROAE (%)	Net yield	Net yield
		(MYR)	(MYR m)	(MYR)	CY 23E	CY 24E	CY23E	CY 24E	CY 23E	CY 24E	CY 23E	CY 24E
Maybank *	NR	9.00	108,542	NR	11.9	11.2	1.2	1.2	10.5	11.0	7.1	7.6
Public Bank	BUY	4.32	83,854	5.05	12.5	11.7	1.6	1.5	13.0	13.0	4.4	4.6
CIMB	BUY	5.77	61,538	6.80	9.1	8.6	0.9	0.9	10.2	10.1	5.9	6.2
HL Bank	BUY	19.14	41,490	23.00	10.3	9.9	1.2	1.1	11.5	12.1	3.3	3.6
RHB Bank	HOLD	5.47	23,446	6.20	8.2	8.0	0.8	0.7	9.6	9.3	6.1	6.2
HLFG	BUY	16.48	18,911	21.70	6.7	6.5	0.7	0.6	10.5	10.0	2.4	3.4
AMMB	BUY	4.06	13,456	4.75	8.1	7.8	0.7	0.7	11.1	9.3	4.5	4.5
BIMB	HOLD	2.30	5,213	2.45	10.1	9.6	0.7	0.7	7.4	7.5	5.6	6.2
ABMB	BUY	3.47	5,372	4.10	8.3	8.0	0.8	0.7	9.4	9.2	6.0	6.3
Simple avg			361,822		9.4	9.0	0.9	0.9	10.4	10.2	5.0	5.4
MC-wtd					10.6	10.1	1.2	1.1	11.0	11.1	5.4	5.7

^{*} Consensus estimates Source: Maybank IBG Research



Loan growth slows

Industry loans growth slowed to just 4.0% YoY in Oct 2023 from 4.3% YoY in Sep 2023. While household (HH) loan growth held up and improved from 5.6% YoY in Sep 2023 to 5.8% YoY in Oct 2023, the drag was from non-HH loan growth, which slowed even further to 1.5% YoY from 2.6% YoY, as repayments outpaced disbursements.

Fig 1: Total industry YoY loan growth (Apr 2007 - Oct 2023)



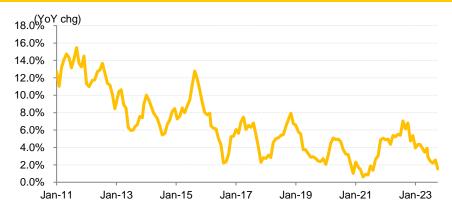
Source: BNM

Fig 2: YoY household loan growth (Jan 2011 - Oct 2023)



Source: BNM

Fig 3: YoY non-household loan growth (Jan 2011 - Oct 2023)



Source: BNM



Pick-up in unsecured lending growth

On a segmental basis, auto and residential property lending remained robust, up 9.5% YoY and 7.4% YoY respectively, while personal financing and credit card financing expanded 4.8% YoY and 12.1% YoY. Working capital loans, however, slowed to just 0.3% YoY in Oct from 1.1% in Sep 2023.

Fig 4: Outstanding loans by purpose (YoY chg in Oct 2023)

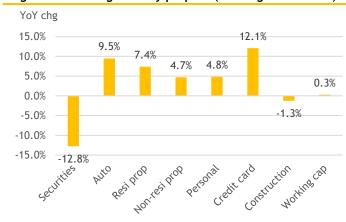
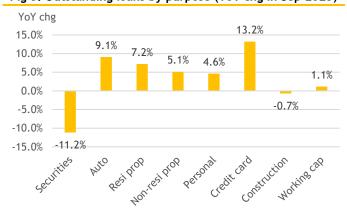


Fig 5: Outstanding loans by purpose (YoY chg in Sep 2023)



Source: BNM, Maybank IBG Research

Source: BNM, Maybank IBG Research

Residential property financing growth improved to 7.4% YoY from 7.2% YoY in Sep 2023, but non-residential property financing moderated to 4.7% YoY from 5.1% YoY in Sep 2023.

Fig 6: Growth in outstanding residential property & non-residential prop loans

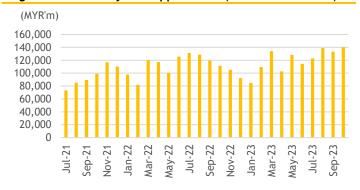
	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
Residential property	6.8%	6.8%	6.9%	7.1%	7.2%	7.4%
<= 250k	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-0.9%
>250k, < 500k	9.2%	9.2%	9.4%	9.5%	9.6%	9.9%
>500k, < 1m	10.0%	10.0%	10.2%	10.5%	10.5%	10.7%
>1m	3.3%	3.3%	3.4%	3.6%	3.6%	3.9%
Non-residential property	4.0%	4.2%	4.1%	4.8%	5.1%	4.7%
IB&F	8.0%	8.1%	8.2%	8.2%	8.2%	8.5%
Land only	5.8%	6.3%	5.6%	6.8%	8.1%	6.8%
Commercial complexes	7.0%	5.7%	5.3%	5.5%	5.8%	1.8%
Shophouses	1.2%	1.3%	1.6%	1.6%	1.7%	2.0%
Others	2.3%	3.2%	3.0%	5.5%	5.7%	5.8%

Source: BNM

Loan applications expanded YoY

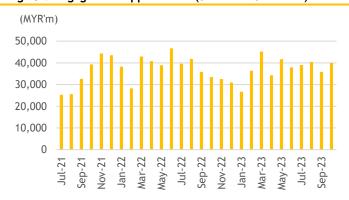
Loan applications expanded at a double-digit pace of 11.4% YoY in Sep 2023 and 25.8% YoY in Oct 2023. In the HH segment, residential property loan applications rose 19% YoY after having contracted over the previous four consecutive months. Loan applications rose YoY across all consumer loan segments except for credit cards. Construction and working capital loan applications jumped 29% and 11.5% YoY respectively.

Fig 7: Total monthly loan applications (Jul 2021-Oct 2023)



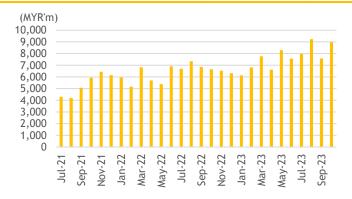
Source: BNM, Maybank IBG Research

Fig 9: Mortgage loan applications (Jul 2021-Oct 2023)



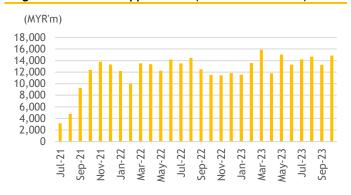
Source: BNM, Maybank IBG Research

Fig 11: Personal loan applications (Jul 2021-Oct 2023)



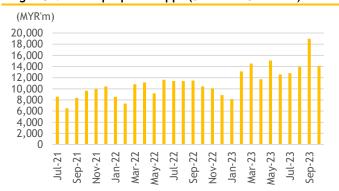
Source: BNM, Maybank IBG Research

Fig 8: Auto HP loan applications (Jul 2021-Oct 2023)



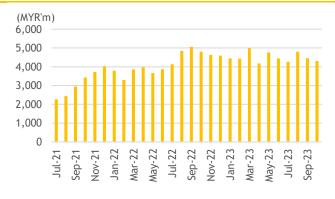
Source: BNM, Maybank IBG Research

Fig 10: Non-resi prop loan apps (Jul 2021-Oct 2023)



Source: BNM, Maybank IBG Research

Fig 12: Credit card loan applications (Jul 2021-Oct 2023)



Source: BNM, Maybank IBG Research

Fig 13: Construction loan applications (Jul 2021-Oct 2023)

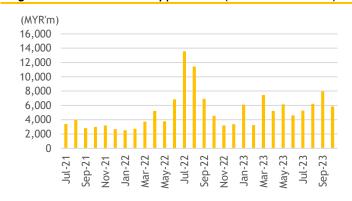
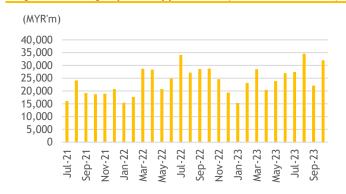


Fig 14: Working cap loan applications (Jul 2021-Oct 2023)



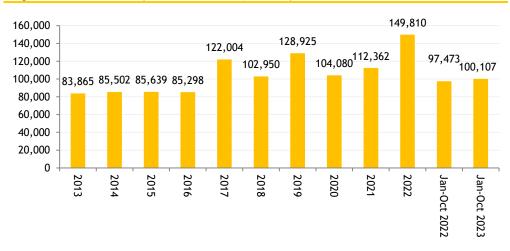
Source: BNM, Maybank IBG Research

Source: BNM, Maybank IBG Research

Total industry credit growth of 4.0% YoY

Bond issuances totalled MYR16.2b in Oct 2023, as compared to MYR8.3b in Sep 2023 and MYR16.4b in Oct 2022. Cumulatively, bond issuances totalled MYR100.1b in 10M23, up 2.7% YoY. Including bank loans, total industry credit growth was 4.0% in Oct 2023.

Fig 15: Bond Issuances (2013 to Oct 2023, MYR'm)



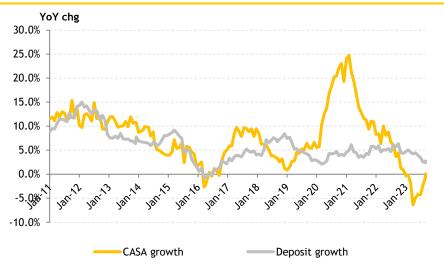
Source: BNM

CASA growth turns positive

Deposit growth improved slightly to 2.8% YoY in Oct 2023 from 2.4% YoY in Sep 2023. Including repos, deposit growth was a faster 4.3% YoY. Having contracted YoY over the previous nine consecutive months, CASA finally eked out a very small 0.1% YoY growth in October, finally turning the corner. The industry's CASA ratio was 29.3% end-Oct 2023. This compares against a pre-COVID CASA ratio of 26.5% end-Dec 2019 as well as a peak CASA ratio of 32.9% in Apr 2022.

Maybank

Fig 16: Total deposits vs CASA growth (Jan 2011 - Oct 2023)

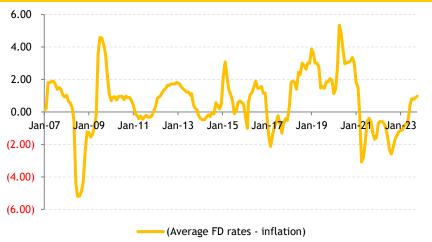


Source: BNM

Lower inflation

Headline inflation improved further to 1.8% in Oct 2023 from 1.9% in Sep 2023. As a result, the real return on deposits rose further to 0.98% in Oct 2023 from 0.88% in Sep 2023.

Fig 17: Differential between average fixed deposit rates and inflation



Source: BNM, Maybank IBG Research

Impaired loans rise moderately

Impaired loans continued to rise moderately in absolute terms, up 3.4% YTD. Nevertheless, the industry's gross impaired loans (GIL) ratio improved to 1.70% in Oct 2023 from 1.72% in Sep 2023. This compares to a pre-COVID ratio of 1.51% end-Dec 2019.



Fig 18: Monthly GIL ratios by sector

<u> </u>								
Month	Mar 23	Apr 23	May 23	Jun 23	Jul 23	Aug 23	Sep 23	Oct 23
Securities	0.32%	0.41%	0.37%	0.37%	0.43%	0.43%	0.43%	0.40%
Passenger cars	0.46%	0.47%	0.51%	0.49%	0.50%	0.51%	0.50%	0.49%
Other vehicles	3.80%	3.73%	3.75%	0.95%	0.97%	1.02%	0.91%	0.91%
Other fixed assets	1.45%	1.45%	1.51%	1.59%	1.29%	1.38%	1.36%	1.32%
Residential property	1.39%	1.45%	1.48%	1.48%	1.49%	1.48%	1.37%	1.36%
<= 250k	1.50%	1.61%	1.65%	1.67%	1.65%	1.66%	1.62%	1.61%
>250k, < 500k	0.96%	1.03%	1.06%	1.08%	1.12%	1.12%	1.06%	1.07%
>100k, < 1m	1.19%	1.25%	1.26%	1.25%	1.25%	1.24%	1.15%	1.13%
>1m	2.21%	2.24%	2.28%	2.28%	2.28%	2.26%	2.04%	2.00%
Non-residential prop	1.75%	1.77%	1.79%	1.77%	1.79%	1.79%	1.74%	1.72%
Ind builds & factories	1.07%	1.08%	1.11%	1.07%	1.09%	1.08%	1.08%	1.07%
Land only	2.28%	2.26%	2.18%	2.18%	2.17%	2.18%	2.06%	2.03%
Comm complexes	2.38%	2.41%	2.42%	2.43%	2.44%	2.44%	2.44%	2.43%
Shophouses	1.52%	1.56%	1.63%	1.60%	1.61%	1.61%	1.54%	1.55%
Personal use	2.64%	2.72%	2.73%	2.63%	2.69%	2.64%	2.61%	2.76%
Credit card	1.01%	1.01%	1.01%	1.05%	1.10%	1.13%	1.07%	1.11%
Construction	4.58%	4.48%	4.49%	4.42%	4.54%	4.52%	4.06%	4.06%
Working capital	2.52%	2.56%	2.56%	2.48%	2.47%	2.56%	2.58%	2.50%
Other purposes	2.10%	2.07%	2.05%	2.03%	1.96%	1.95%	1.92%	1.99%
Total loans	1.75%	1.78%	1.80%	1.76%	1.76%	1.78%	1.72%	1.70%

Source: BNM, Maybank IBG Research

Risk statement

Upside risks: (i) Stronger-than-expected GDP growth, which would contribute to stronger loan growth and lower credit risks; as well as (ii) improved liquidity, which would help to sustain interest margins.

Downside risks: (i) Weaker-than-expected GDP growth, which could lead to slower loan growth and asset quality issues; (ii) potential interest rate cuts that could negatively impact interest margins in the short term; and (iii) a slowdown in CASA growth, which could exacerbate deposit competition.



Research Offices

ECONOMICS

Suhaimi ILIAS Chief Economist Malaysia | Philippines | Global (603) 2297 8682 suhaimi_ilias@maybank-ib.com

CHUA Hak Bin

Regional Thematic Macroeconomist chuahb@maybank.com

Dr Zamros DZULKAFLI Malaysia | Philippines (603) 2082 6818 zamros.d@maybank-ib.com

Erica TAY China | Thailand (65) 6231 5844 erica.tay@maybank.com

Brian LEE Shun Rong Indonesia | Singapore | Vietnam (65) 6231 5846 brian.lee1@maybank.

Fatin Nabila MOHD ZAINI (603) 2297 8685

fatinnabila.mohdzaini@maybank-ib.com

Luong Thu Huong (65) 6231 8467 hana.thuhuong@maybank.com

FX

Head of FX Research (65) 6320 1379 saktiandi@maybank.com

Saktiandi SUPAAT

(65) 6320 1374 fionalim@maybank.com

Alan LAU (65) 6320 1378 alanlau@maybank.com

Shaun LIM (65) 6320 1371 shaunlim@maybank.com

STRATEGY

Anand PATHMAKANTHAN

(603) 2297 8783 anand.pathmakanthan@maybank-ib.com

FIXED INCOME

Winson PHOON, FCA Head of Fixed Income (65) 6340 1079 winsonphoon@maybank.com

(603) 2074 7606 munyi.st@maybank-ib.com

PORTFOLIO STRATEGY

MIBG SUSTAINABILITY RESEARCH

Jigar SHAH Head of Sustainability Research (91) 22 4223 2632 jigars@maybank.com

Neerav DALAL (91) 22 4223 2606 neerav@maybank.com

REGIONAL EQUITIES

Anand PATHMAKANTHAN Head of Regional Equity Research (603) 2297 8783 anand.pathmakanthan@maybank-ib.com

WONG Chew Hann, CA Head of ASEAN Equity Research (603) 2297 8686 wchewh@maybank-ib.com

ΜΑΙ ΔΥSΙΔ

WONG Chew Hann, CA Head of Research (603) 2297 8686 wchewh@maybank-ib.com • Equity Strategy • Non-Bank Financials (stock exchange) • Construction & Infrastructure

Anand PATHMAKANTHAN

(603) 2297 8783 anand.pathmakanthan@maybank-ib.com
• Equity Strategy

Desmond CH'NG, BFP, FCA (603) 2297 8680 desmond.chng@maybank-ib.com

Banking & Finance

ONG Chee Ting, CA (603) 2297 8678 ct.ong@maybank-ib.com

· Plantations - Regional

YIN Shao Yang, CPA (603) 2297 8916

• Gaming - Regional • Media • Aviation • Non-Bank Financials

TAN Chi Wei. CFA (603) 2297 8690 chiwei.t@maybank-ib.com Power • Telcos

WONG Wei Sum, CFA (603) 2297 8679 weisum@maybank-ib.com

Property • Glove

(603) 2297 8687 jade.tam@maybank-ib.com

Consumer Staples & Discretionary Nur Farah SYIFAA

(603) 2297 8675 nurfarahsyifaa.mohamadfuad@maybank-ib.com
• Renewable Energy • REITs

LOH Yan Jin (603) 2297 8687 lohyanjin.loh@maybank-ib.com · Ports · Automotive · Technology (EMS)

Jeremie YAP (603) 2297 8688 jeremie.yap@maybank-ib.com
• Oil & Gas • Petrochemicals

(603) 2297 8692 arvind.jayaratnam@maybank.com
• Technology (Semicon & Software)

TEE Sze Chiah Head of Retail Research (603) 2082 6858 szechiah.t@maybank-ib.com
• Retail Research

Nik Ihsan RAJA ABDULLAH, MSTA, CFTe (603) 2297 8694 nikmohdihsan.ra@maybank-ib.com Chartist

(603) 2082 8769 amirah.azmi@maybank-ib.com Retail Research

Amirah A7MI

SINGAPORE

Thilan WICKRAMASINGHE Head of Research (65) 6231 5840 thilanw@maybank.com
Banking & Finance - Regional
Consumer

Eric ONG

(65) 6231 5849

ericong@maybank.com
• Healthcare • Transport • SMIDs

Kelvin TAN (65) 6231 5837 kelvin.tan1@maybank.com

Telcos • Industrials

LI Jialin (65) 6231 5845 jialin.li@maybank.com REITs

Jarick SEET (65) 6231 5848 jarick.seet@maybank.com
• Technology

Krishna GUHA (65) 6231 5842 krishna.guha@maybank.com
REITs

PHILIPPINES

Rachelleen RODRIGUEZ, CFA Head of Research (63) 2 8849 8843 rachelleen.rodriguez@maybank.com

Banking & Finance • Transport • Telcos
 Utilities

Daphne SZE (63) 2 8849 8847 daphne.sze@maybank.com Consumer

Alexa Mae CARVAJAL (63) 2 8849 8838 alexamae.carvajal@maybank.com
Consumer • Gaming • Property • REITs

THAILAND

Chak REUNGSINPINYA Head of Research (66) 2658 5000 ext 1399 chak.reungsinpinya@maybank.com
• Strategy • Energy

Jesada TECHAHUSDIN, CFA

(66) 2658 5000 ext 1395 jesada.t@maybank.com • Banking & Finance

Wasu MATTANAPOTCHANART (66) 2658 5000 ext 1392

wasu.m@maybank.com
• Telcos • Technology • REITs • Property
• Consumer Discretionary

Surachai PRAMUALCHAROENKIT (66) 2658 5000 ext 1470 surachai.p@maybank.com
• Auto • Conmat • Contractor • Steel

Suttatip PEERASUB

(66) 2658 5000 ext 1430 suttatip.p@maybank.com • Food & Beverage • Commerce

Natchaphon RODJANAROWAN (66) 2658 5000 ext 1393 natchaphon.rodjanarowan@maybank.com

Utilities

INDONESIA

Jeffrosenberg CHENLIM Head of Research (62) 21 8066 8680 jeffrosenberg.lim@maybank.com • Strategy • Banking & Finance • Property

Willy GOUTAMA (62) 21 8066 8500 willy.goutama@maybank.com • Consumer

Etta Rusdiana PUTRA (62) 21 8066 8683 etta.putra@maybank.com
• Telcos • Internet • Construction

William Jefferson W (62) 21 8066 8563 william.jefferson@maybank.com

 Property Adi WICAKSONO (62) 21 8066 8686

adi.wicaksono@mavbank.com Plantations Satriawan HARYONO, CEWA, CTA

(62) 21 8066 8682 satriawan@maybank.com Chartist

VIETNAM

Quan Trong Thanh Head of Research (84 28) 44 555 888 ext 8184 thanh.quan@maybank.com • Strategy • Banks

Hoang Huy, CFA (84 28) 44 555 888 ext 8181 hoanghuy@maybank.com Strategy • Technology

Le Nguyen Nhat Chuyen (84 28) 44 555 888 ext 8082 chuyen.le@maybank.com
• Oil & Gas • Logistics

Nguyen Thi Sony Tra Mi (84 28) 44 555 888 ext 8084 trami.nguyen@maybank.com
Consumer Discretionary

Tran Thi Thanh Nhan (84 28) 44 555 888 ext 8088 nhan.tran@maybank.com Consumer Staples

Nguyen Le Tuan Loi (84 28) 44 555 888 ext 8182 loi.nguyen@maybank.com Property

Nguyen Thanh Hai (84 28) 44 555 888 ext 8081 thanhhai.nguyen@maybank.com
• Industrials

Nguven Thanh Lam (84 28) 44 555 888 ext 8086 thanhlam.nguyen@maybank.com • Retail Research

8



APPENDIX I: TERMS FOR PROVISION OF REPORT, DISCLAIMERS AND DISCLOSURES

DISCLAIMERS

This research report is prepared for general circulation and for information purposes only and under no circumstances should it be considered or intended as an offer to sell or a solicitation of an offer to buy the securities referred to herein. Investors should note that values of such securities, if any, may fluctuate and that each security's price or value may rise or fall. Opinions or recommendations contained herein are in form of technical ratings and fundamental ratings. Technical ratings may differ from fundamental ratings as technical valuations apply different methodologies and are purely based on price and volume-related information extracted from the relevant jurisdiction's stock exchange in the equity analysis. Accordingly, investors' returns may be less than the original sum invested. Past performance is not necessarily a guide to future performance. This report is not intended to provide personal investment advice and does not take into account the specific investment objectives, the financial situation and the particular needs of persons who may receive or read this report. Investors should therefore seek financial, legal and other advice regarding the appropriateness of investing in any securities or the investment strategies discussed or recommended in this report.

The information contained herein has been obtained from sources believed to be reliable but such sources have not been independently verified by Maybank Investment Bank Berhad, its subsidiary and affiliates (collectively, "Maybank IBG") and consequently no representation is made as to the accuracy or completeness of this report by Maybank IBG and it should not be relied upon as such. Accordingly, Maybank IBG and its officers, directors, associates, connected parties and/or employees (collectively, "Representatives") shall not be liable for any direct, indirect or consequential losses or damages that may arise from the use or reliance of this report. Any information, opinions or recommendations contained herein are subject to change at any time, without prior notice.

This report may contain forward looking statements which are often but not always identified by the use of words such as "anticipate", "estimate", "intend", "plan", "expect", "forecast", "predict" and "project" and statements that an event or result "may", "will", "can", "should", "could" or "might" occur or be achieved and other similar expressions. Such forward looking statements are based on assumptions made and information currently available to us and are subject to certain risks and uncertainties that could cause the actual results to differ materially from those expressed in any forward looking statements. Readers are cautioned not to place undue relevance on these forward-looking statements. Maybank IBG expressly disclaims any obligation to update or revise any such forward looking statements to reflect new information, events or circumstances after the date of this publication or to reflect the occurrence of unanticipated events.

Maybank IBG and its officers, directors and employees, including persons involved in the preparation or issuance of this report, may, to the extent permitted by law, from time to time participate or invest in financing transactions with the issuer(s) of the securities mentioned in this report, perform services for or solicit business from such issuers, and/or have a position or holding, or other material interest, or effect transactions, in such securities or options thereon, or other investments related thereto. In addition, it may make markets in the securities mentioned in the material presented in this report. One or more directors, officers and/or employees of Maybank IBG may be a director of the issuers of the securities mentioned in this report to the extent permitted by law.

This report is prepared for the use of Maybank IBG's clients and may not be reproduced, altered in any way, transmitted to, copied or distributed to any other party in whole or in part in any form or manner without the prior express written consent of Maybank IBG and Maybank IBG and its Representatives accepts no liability whatsoever for the actions of third parties in this respect.

This report is not directed to or intended for distribution to or use by any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation. This report is for distribution only under such circumstances as may be permitted by applicable law. The securities described herein may not be eligible for sale in all jurisdictions or to certain categories of investors. Without prejudice to the foregoing, the reader is to note that additional disclaimers, warnings or qualifications may apply based on geographical location of the person or entity receiving this report.

Malaysia

Opinions or recommendations contained herein are in the form of technical ratings and fundamental ratings. Technical ratings may differ from fundamental ratings as technical valuations apply different methodologies and are purely based on price and volume-related information extracted from Bursa Malaysia Securities Berhad in the equity analysis.

Singapore

This report has been produced as of the date hereof and the information herein may be subject to change. Maybank Research Pte. Ltd. ("MRPL") in Singapore has no obligation to update such information for any recipient. For distribution in Singapore, recipients of this report are to contact MRPL in Singapore in respect of any matters arising from, or in connection with, this report. If the recipient of this report is not an accredited investor, expert investor or institutional investor (as defined under Section 4A of the Singapore Securities and Futures Act), MRPL shall be legally liable for the contents of this report, with such liability being limited to the extent (if any) as permitted by law.

Thailand

Except as specifically permitted, no part of this presentation may be reproduced or distributed in any manner without the prior written permission of Maybank Securities (Thailand) Public Company Limited. ("MST") accepts no liability whatsoever for the actions of third parties in this respect.

Due to different characteristics, objectives and strategies of institutional and retail investors, the research products of MST Institutional and Retail Research departments may differ in either recommendation or target price, or both. MST reserves the rights to disseminate MST Retail Research reports to institutional investors who have requested to receive it. If you are an authorised recipient, you hereby tacitly acknowledge that the research reports from MST Retail Research are first produced in Thai and there is a time lag in the release of the translated English version.

The disclosure of the survey result of the Thai Institute of Directors Association ("IOD") regarding corporate governance is made pursuant to the policy of the Office of the Securities and Exchange Commission. The survey of the IOD is based on the information of a company listed on the Stock Exchange of Thailand and the market for Alternative Investment disclosed to the public and able to be accessed by a general public investor. The result, therefore, is from the perspective of a third party. It is not an evaluation of operation and is not based on inside information. The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey may be changed after that date. MST does not confirm nor certify the accuracy of such survey result.

The disclosure of the Anti-Corruption Progress Indicators of a listed company on the Stock Exchange of Thailand, which is assessed by Thaipat Institute, is made in order to comply with the policy and sustainable development plan for the listed companies of the Office of the Securities and Exchange Commission. Thaipat Institute made this assessment based on the information received from the listed company, as stipulated in the form for the assessment of Anti-corruption which refers to the Annual Registration Statement (Form 56-1), Annual Report (Form 56-2), or other relevant documents or reports of such listed company. The assessment result is therefore made from the perspective of Thaipat Institute that is a third party. It is not an assessment of operation and is not based on any inside information. Since this assessment result as of the date appearing in the assessment result, it may be changed after that date or when there is any change to the relevant information. Nevertheless, MST does not confirm, verify, or certify the accuracy and completeness of the assessment result.

US

This third-party research report is distributed in the United States ("US") to Major US Institutional Investors (as defined in Rule 15a-6 under the Securities Exchange Act of 1934, as amended) only by Wedbush Securities Inc. ("Wedbush"), a broker-dealer registered in the US (registered under Section 15 of the Securities Exchange Act of 1934, as amended). All responsibility for the distribution of this report by Wedbush in the US shall be borne by Wedbush. This report is not directed at you if Wedbush is prohibited or restricted by any legislation or regulation in any jurisdiction from making it available to you. You should satisfy yourself before reading it that Wedbush is permitted to provide research material concerning investments to you under relevant legislation and regulations. All U.S. persons receiving and/or accessing this report and wishing to effect transactions in any security mentioned within must do so with: Wedbush Securities Inc. 1000 Wilshire Blvd, Los Angeles, California 90017, +1 (646) 604-4232 and not with the issuer of this report.



UK

This document is being distributed by Maybank Securities (London) Ltd ("MSUK") which is authorized and regulated, by the Financial Conduct Authority and is for Informational Purposes only. This document is not intended for distribution to anyone defined as a Retail Client under the Financial Services and Markets Act 2000 within the UK. Any inclusion of a third party link is for the recipients convenience only, and that the firm does not take any responsibility for its comments or accuracy, and that access to such links is at the individuals own risk. Nothing in this report should be considered as constituting legal, accounting or tax advice, and that for accurate guidance recipients should consult with their own independent tax advisers.

DISCLOSURES

Legal Entities Disclosures

Malaysia: This report is issued and distributed in Malaysia by Maybank Investment Bank Berhad (15938- H) which is a Participating Organization of Bursa Malaysia Berhad and a holder of Capital Markets and Services License issued by the Securities Commission in Malaysia. Singapore: This report is distributed in Singapore by MRPL (Co. Reg No 198700034E) which is regulated by the Monetary Authority of Singapore. Indonesia: PT Maybank Sekuritas Indonesia ("PTMSI") (Reg. No. KEP-251/PM/1992) is a member of the Indonesia Stock Exchange and is regulated by the Financial Services Authority (Indonesia). Thailand: MST (Reg. No.0107545000314) is a member of the Stock Exchange of Thailand and is regulated by the Ministry of Finance and the Securities and Exchange Commission. Philippines: Maybank Securities Inc (Reg. No.01-2004-00019) is a member of the Philippines Stock Exchange and is regulated by the Securities and Exchange Commission. Vietnam: Maybank Securities Limited (License Number: 117/GP-UBCK) is licensed under the State Securities Commission of Vietnam. Hong Kong: MIB Securities (Hong Kong) Limited (Central Entity No AAD284) is regulated by the Securities and Futures Commission. India: MIB Securities India Private Limited ("MIBSI") is a participant of the National Stock Exchange of India Limited and the Bombay Stock Exchange and is regulated by Securities and Exchange Board of India ("SEBI") (Reg. No. INZ000010538). MIBSI is also registered with SEBI as Category 1 Merchant Banker (Reg. No. INM 000011708) and as Research Analyst (Reg No: INH000000057). UK: Maybank Securities (London) Ltd (Reg No 2377538) is authorized and regulated by the Financial Conduct Authority.

Disclosure of Interest

Malaysia: Maybank IBG and its Representatives may from time to time have positions or be materially interested in the securities referred to herein and may further act as market maker or may have assumed an underwriting commitment or deal with such securities and may also perform or seek to perform investment banking services, advisory and other services for or relating to those companies.

Singapore: As of 3 December 2023, Maybank Research Pte. Ltd. and the covering analyst do not have any interest in any companies recommended in this research report.

Thailand: MST may have a business relationship with or may possibly be an issuer of derivative warrants on the securities /companies mentioned in the research report. Therefore, Investors should exercise their own judgment before making any investment decisions. MST, its associates, directors, connected parties and/or employees may from time to time have interests and/or underwriting commitments in the securities mentioned in this report.

Hong Kong: As of 3 December 2023, MIB Securities (Hong Kong) Limited and the authoring analyst do not have any interest in any companies recommended in this research report.

India: As of 3 December 2023, and at the end of the month immediately preceding the date of publication of the research report, MIBSI, authoring analyst or their associate / relative does not hold any financial interest or any actual or beneficial ownership in any shares or having any conflict of interest in the subject companies except as otherwise disclosed in the research report.

In the past twelve months MIBSI and authoring analyst or their associate did not receive any compensation or other benefits from the subject companies or third party in connection with the research report on any account what so ever except as otherwise disclosed in the research report.

Maybank IBG may have, within the last three years, served as manager or co-manager of a public offering of securities for, or currently may make a primary market in issues of, any or all of the entities mentioned in this report or may be providing, or have provided within the previous 12 months, significant advice or investment services in relation to the investment concerned or a related investment and may receive compensation for the services provided from the companies covered in this report.

OTHERS

Analyst Certification of Independence

The views expressed in this research report accurately reflect the analyst's personal views about any and all of the subject securities or issuers; and no part of the research analyst's compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed in the report.

Reminder

Structured securities are complex instruments, typically involve a high degree of risk and are intended for sale only to sophisticated investors who are capable of understanding and assuming the risks involved. The market value of any structured security may be affected by changes in economic, financial and political factors (including, but not limited to, spot and forward interest and exchange rates), time to maturity, market conditions and volatility and the credit quality of any issuer or reference issuer. Any investor interested in purchasing a structured product should conduct its own analysis of the product and consult with its own professional advisers as to the risks involved in making such a purchase.

No part of this material may be copied, photocopied or duplicated in any form by any means or redistributed without the prior consent of Maybank IBG.

Definition of Ratings

Maybank IBG Research uses the following rating system

BUY Return is expected to be above 10% in the next 12 months (including dividends)

HOLD Return is expected to be between 0% to 10% in the next 12 months (including dividends)

SELL Return is expected to be below 0% in the next 12 months (including dividends)

Applicability of Ratings

The respective analyst maintains a coverage universe of stocks, the list of which may be adjusted according to needs. Investment ratings are only applicable to the stocks which form part of the coverage universe. Reports on companies which are not part of the coverage do not carry investment ratings as we do not actively follow developments in these companies.



Malaysia

Maybank Investment Bank Berhad (A Participating Organisation of Bursa Malaysia Securities Berhad) 33rd Floor, Menara Maybank, 100 Jalan Tun Perak, 50050 Kuala Lumpur

Tel: (603) 2059 1888; Fax: (603) 2078 4194

Stockbroking Business:

Level 8, Tower C, Dataran Maybank, No.1, Jalan Maarof 59000 Kuala Lumpur

Tel: (603) 2297 8888 Fax: (603) 2282 5136

Singapore

Maybank Securities Pte Ltd Maybank Research Pte Ltd 50 North Canal Road Singapore 059304

Tel: (65) 6336 9090

Indonesia

PT Maybank Sekuritas Indonesia Sentral Senayan III, 22nd Floor Jl. Asia Afrika No. 8 Gelora Bung Karno, Senayan Jakarta 10270, Indonesia

Tel: (62) 21 2557 1188 Fax: (62) 21 2557 1189

Thailand

Maybank Securities (Thailand) PCL 999/9 The Offices at Central World, 20th - 21st Floor, Rama 1 Road Pathumwan.

Tel: (66) 2 658 6817 (sales)

Bangkok 10330, Thailand

Tel: (66) 2 658 6801 (research)

Sales Trading

Indonesia Helen Widjaja helen.widjaja@maybank.com (62) 21 2557 1188

Philippines Keith Roy keith_roy@maybank.com Tel: (63) 2 848-5288 London **Greg Smith**

gsmith@maybank.com Tel: (44) 207-332-0221

Sanjay Makhija sanjaymakhija@maybank.com Tel: (91)-22-6623-2629

London

Maybank Securities (London) Ltd PNB House 77 Queen Victoria Street London EC4V 4AY, UK

Tel: (44) 20 7332 0221 Fax: (44) 20 7332 0302

India

MIB Securities India Pte Ltd 1101, 11th floor, A Wing, Kanakia Wall Street, Chakala, Andheri -Kurla Road, Andheri East, Mumbai City - 400 093, India

Tel: (91) 22 6623 2600 Fax: (91) 22 6623 2604

Vietnam

Maybank Securities Limited Floor 10, Pearl 5 Tower, 5 Le Quy Don Street, Vo Thi Sau Ward, District 3 Ho Chi Minh City, Vietnam

Tel: (84) 28 44 555 888 Fax: (84) 28 38 271 030

Hong Kong

MIB Securities (Hong Kong) Limited 28/F, Lee Garden Three, 1 Sunning Road, Causeway Bay, Hong Kong

Tel: (852) 2268 0800 Fax: (852) 2877 0104

Philippines

Maybank Securities Inc 17/F, Tower One & Exchange Plaza Ayala Triangle, Ayala Avenue Makati City, Philippines 1200

Tel: (63) 2 8849 8888 Fax: (63) 2 8848 5738

www.maybank.com/investment-banking www.maybank-keresearch.com