

Malaysia

REDUCE (no change)

Consensus ratings*: Buy 5 Hold 3 Sell 11

Current price:	RM0.605
Target price:	RM0.09
Previous target:	RM0.14
Up/downside:	-85.1%
CGS-CIMB / Consensus:	-90.0%
Reuters:	AIRA.KL
Bloomberg:	AAGB MK
Market cap:	US\$601.4m
	RM2,517m
Average daily turnover:	US\$4.82m
	RM20.16m
Current shares o/s:	3,812m
Free float:	65.1%

*Source: Bloomberg

Key changes in this note

- No change to core EPS forecasts.



Source: Bloomberg

Price performance	1M	3M	12M
Absolute (%)	-20.9	-45	-17.1
Relative (%)	-23.2	-40.9	-12.8

Major shareholders	% held
Tune Air & Tune Live	26.4
Choi Chiu Fai, Stanley	8.5

Analyst(s)

Raymond YAP, CFA

T (60) 3 2635 9250

E raymond.yap@cgs-cimb.com

AirAsia Group Berhad

Challenging road out of PN17 status

- Maintain Reduce with a lower TP of 9 sen as we revise our RNAV calculation.
- We reiterate our view that it is not apparent how AAGB will be able to uplift itself from PN17 status without significant equity capital raising.

Max RM7.4bn boost to shareholders' funds needed for PN17 uplift

AAGB was classified as a Practice Note 17 (PN17) listed issuer from 7 Jan 2021, and we explored some of the ways that AAGB can exit its PN17 status without raising new equity in our [17 Jan](#) note. This report adds more colour to the earlier analysis. Since AAGB's auditor had expressed material uncertainty related to going concern in its audit report for the FY20 accounts, AAGB will need to have shareholders' equity of at least 50% of its paid-up share capital (or at least RM40m without the 'material uncertainty'). With paid-up share capital of RM8.5bn as at 30 Sep 2021, this means that AAGB will need a minimum shareholders' equity of RM4.2bn. By contrast, AAGB had a negative shareholders' funds position of RM3.2bn as at 30 Sep 2021; hence, in order to be uplifted from PN17, AAGB will need a RM7.4bn boost to its shareholders' funds on a proforma basis. The gap is a moving target; while RM197m (20%) of the RM975m RCUIDS has been converted into new ordinary shares, ongoing business losses will almost certainly widen the gap.

Capital reduction can reduce but not eliminate the yawning gap

One of AAGB's options to reduce the gap, which we had not mentioned in our 17 Jan note, is for AAGB to obtain shareholders' and court approval for a capital reduction. This means that RM5.8bn of retained losses (as at 30 Sep 2021) can be offset against paid-up share capital of RM8.5bn, leaving a residual paid-up share capital of RM2.7bn. In this way, AAGB will need to have shareholders' funds of at least RM1.35bn, or 'only' a RM4.55bn boost as at 30 Sep 2021 (RM1.35bn add RM3.2bn) to exit PN17 status. We noted in our 17 Jan report that AAGB may consider the deconsolidation of IAA/PAA to reduce the gap by RM2.25bn; but this may only be possible if IAA/PAA both secure new shareholders, upon which AAGB can convince its auditor that it only has significant influence, but not control, over IAA/PAA. Without this, AAGB may not be able to secure its auditor's approval to deconsolidate. Separately, even though AAGB is working to reduce its aircraft leasing rates, the lease liabilities on its balance sheet may not actually fall because of the extension of the leases by 3/6 years, and because its auditor may apply a lower discount rate to present-value the future lease liabilities.

Revaluation gains on digital companies possible, but not assured

This means that even with a potential capital reduction, AAGB may struggle to uplift its PN17 status with a huge RM4.55bn gap in shareholders' funds. The RM650m warrants and RM778m in remaining RCUIDS may not be converted into shares soon with the share price below conversion prices. AAGB may have to sell down stakes in its various digital businesses to below 50% in order to benefit from fair value revaluation gains, but it is difficult to predict if/when this may happen. De-rating catalyst: a new airline in Malaysia could depress yields. Upside risk: travel recovery once the Omicron wave passes.

Financial Summary

	Dec-19A	Dec-20A	Dec-21F	Dec-22F	Dec-23F
Revenue (RMm)	12,294	3,141	1,320	5,615	10,099
Operating EBITDA (RMm)	2,043	-1,761	-1,396	-195	1,140
Net Profit (RMm)	-322	-5,093	-3,089	-1,841	-613
Core EPS (RM)	-0.16	-1.54	-1.16	-0.73	-0.30
Core EPS Growth	(540%)	842%	(25%)	(37%)	(59%)
FD Core P/E (x)	NA	NA	NA	NA	NA
DPS (RM)	0.90	0.00	0.00	0.00	0.00
Dividend Yield	149%	0%	0%	0%	0%
EV/EBITDA (x)	4.91	NA	NA	NA	11.29
P/FCFE (x)	0.62	NA	NA	NA	9.97
Net Gearing	354%	(376%)	(215%)	(163%)	(145%)
P/BV (x)	0.45	NA	NA	NA	NA
ROE	(9%)	(315%)	177%	61%	20%
% Change In Core EPS Estimates			0%	0%	0%
CGS-CIMB/Consensus EPS (x)			1.27	2.43	-2.25

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS

Core net profit breakdown ►

Figure 1: AirAsia Group Berhad's core net profit breakdown (RM m) - P&L consolidates MAA, IAA and PAA (or MIP), and deducts 53% MI for IAA and 60% MI for PAA. Core net profit includes share of profits or losses from TAA, AAI, and AAJ, where applicable.

	2016	2017	2018	2019	2020	2021F	2022F	2023F
MAA, IAA and PAA core net profit (100% basis)	1,197.4	1,168.6	-3.7	-285.2	-4,156.3	-3,829.3	-2,511.1	-1,133.2
+ Share of Thai AA (45%)	162.5	127.0	-5.1	-68.6	-544.6	-519.5	-311.7	-51.9
+ Share of AA Japan (66.91%)	-78.7	-120.4	-101.0	-192.3	-78.7	0.0	0.0	0.0
+ Share of AA India (49%)	-25.0	-22.6	-145.4	-125.7	-304.1	0.0	0.0	0.0
Group pax airlines core net profit	1,256.2	1,152.5	-255.2	-671.8	-5,083.6	-4,348.8	-2,822.8	-1,185.1
+ Leasing profits	327.0	257.8	373.6	125.3				
+ Share of non-airline associates	53.1	38.7	5.8	0.0	-63.7	-60.0	-30.0	20.0
Group core net profit	1,636.3	1,449.0	124.1	-546.5	-5,147.3	-4,408.8	-2,852.8	-1,165.1
Add: Exceptional gains/(losses)	-13.6	373.5	1,082.9	43.1	-1,378.6	0.0	0.0	0.0
Less: Deferred taxes	-79.7	-295.8	401.0	294.0	-265.4	0.0	0.0	0.0
Add: Unrecognised associate losses	78.7	44.7	144.5	-95.0	927.3	519.5	311.7	51.9
Add/(less): Unowned portion of IAA/PAA		57.4	272.1	-17.4	770.7	800.0	700.0	500.0
Reported attributable profit	1,621.7	1,628.8	2,024.7	-321.9	-5,093.3	-3,089.3	-1,841.1	-613.2
Wtg avg no of shares (m)	2,783.0	3,342.0	3,342.0	3,342.0	3,342.0	3,792.0	3,898.1	3,898.1
Group Core EPS (sen)	58.8	43.4	3.7	-16.4	-154.0	-116.3	-73.2	-29.9

SOURCES: CGS-CIMB RESEARCH ESTIMATES, COMPANY REPORTS

AAGB target price computation ►

We continue to use a P/RNAV of 1x to derive our target price for AAGB, which we have set at **9 sen** (reduced from 14 sen previously). This is made up of two components:

- We expect AAGB's negative shareholders' equity to deepen from RM3.2bn at end-September 2021 to RM5.6bn at end-FY22F. Even after assuming a deconsolidation of Indonesia AirAsia (IAA) and Philippines AirAsia (PAA) (which will add back AAGB's RM3.2bn share of their net liabilities), half conversion of the Redeemable Convertible Unsecured Islamic Debt Securities (RCUIDS) of RM556m, and half of the warrants (i.e. RM325m), the RNAV will still be a negative RM1.6bn (**negative 32 sen/share**).
- To offset the above and to avoid having a zero target price for AAGB, we have factored in a RM2bn valuation (**41 sen/share**) for the digital businesses, pegged to half of the implied valuation based on an acquisition transaction in July 2021 (more details below).

For the purposes of our RNAV calculation, we assume that AAGB deconsolidates IAA and PAA (even if it actually does not). We estimate that AAGB will have a RM3.2bn share of IAA's and PAA's combined net liabilities by 31 December 2022F. We add this back to derive our RNAV for AAGB, because IAA and PAA are separate legal entities. Given that AAGB owns 47% stake in IAA and 40% stake in PAA, AAGB is actually not obligated to consolidate IAA and PAA, but opted to do so from 2017 onwards. Actual deconsolidation may not take place because a 'trigger event' is needed to convince its auditor of the need to deconsolidate, such as if IAA and PAA both secure new shareholders, upon which AAGB can convince its auditor that it only has significant influence, but not control, over both IAA and PAA.

Our RNAV assumes that 50% of AAGB's proposed rights issue of RM974.5m of Redeemable Convertible Unsecured Islamic Debt Securities (RCUIDS) is ultimately converted into ordinary shares at a conversion price of 75 sen. The RCUIDS are mainly treated as debt on the balance sheet of AAGB. The RCUIDS were issued on 31 December 2021, and up to 20 January 2022, RM197m (20%) of the RM974.5m RCUIDS have been converted into shares. Additional conversion may be uncommon, as the RCUIDS conversion price of 75 sen is higher than AAGB's current share price of 60 sen, and holders of the RCUIDS may want to continue holding on to the RCUIDS to enjoy the 8% p.a. profit rate. Nevertheless, for the purposes of our RNAV calculation, we have

made the assumption that a further 30% of the RCUIDS are ultimately converted into new ordinary shares, taking the assumed conversion rate to 50%.

For our RNAV calculation, we have made the same assumption of 50% conversion for the RM650m outstanding warrants, which carries an exercise price of RM1.

Our RNAV and target price have been reduced from 14 sen previously, to 9 sen currently, due to the following adjustments:

- Assuming that only half of the RCUIDS and half of the warrants are converted to new ordinary shares, rather than full conversion previously.
- Removing our assumption that the aircraft lease liabilities will be discounted by RM2.7bn arising from waivers of outstanding unpaid lease liabilities up to 31 December 2021F. We understand that AAGB has renegotiated 99% of its aircraft leases (by number of aircraft) by the end of 2021, with 71% of the new contracts already signed with respect to its group fleet of about c.190 planes. AAGB also secured outstanding lease liability waivers of RM187.8m in 3Q21 with respect to 17 aircraft. However, we are unsure if the total post-negotiation lease liability balance in AAGB's balance sheet will actually decline. The lease liability balance may in fact increase due to (1) the 3/6-year extension of the leases to 18 years, and (2) a potentially lower discount rate used by the auditor to present-value the future lease obligations, although partially offset by (3) AAGB potentially securing additional lease liability waivers, and (4) cuts in the monthly aircraft lease rates.
- Adding back AAGB's share of IAA's and PAA's estimated combined net liability position, which we did not do previously.

Figure 2: AAGB's target price computation

		Bear case	Base case	Bull case 1	Bull case 2
		Airline business only	Airline business + Assumed values for the 'airasia Digital' businesses		
Book value (RM m) - as at 31 Dec 2022F		(5,586)	(5,586)	(5,586)	(5,586)
Add: Assumed deconsolidation of IAA and PAA		3,151	3,151	3,151	3,151
Add: Valuation of 'airasia Digital' businesses		-	2,000	4,000	6,000
Add: Assumed conversion of half of RCUIDS debt (RM m)		556	556	556	556
Add: Assumed conversion of half of warrants (RM m)		325	325	325	325
Revised Net Asset Value (RM m)	a	(1,554)	446	2,446	4,446
No of shares (m)	b	4,873	4,873	4,873	4,873
- Ordinary share base		3,898	3,898	3,898	3,898
- Assumed conversion of half of RCUIDS debt		650	650	650	650
- Assumed conversion of half of warrants		325	325	325	325
RNAV (RM/share)	a / b	(0.32)	0.09	0.50	0.91
Target P/RNAV multiple (x)			1.0		
Target price (RM)			0.09		

SOURCES: CGS-CIMB RESEARCH ESTIMATES, COMPANY REPORTS

Potential value of the digital businesses

We have assumed a RM2bn valuation for the digital businesses. Our RM2bn digital valuation is pegged to roughly half of the valuation implied by the Gojek Thailand transaction. AAGB announced on 7 July 2021 that it will acquire 100% of two Gojek Thailand (Unlisted) entities, in return for the sellers owning 4.76% of AirAsia Superapp Sdn Bhd (Unlisted), in which AAGB will retain 95.24% interest (no cash deal). AAGB said in its press release that the deal valued AirAsia Superapp Sdn Bhd at **US\$1bn**. Subsequently, AAGB completed the acquisition of only one Gojek Thailand entity, in exchange for 3.81% in shares of AirAsia Superapp Sdn Bhd, in which AAGB retains a 96.19% stake.

On 18 August 2021, AAGB announced that its wholly-owned subsidiary Teleport Everywhere Pte Ltd (Unlisted) signed an agreement to acquire Malaysian online food delivery platform DeliverEat for US\$9.8m, paid in both cash and Teleport shares. The deal valued Teleport at **US\$300m**, according to AAGB's press release.

We consider AAGB's digital businesses to be in the investment stage where they may consume significant amounts of cash resources, which is also because they are competing against established and well-funded competitors. AAGB's push for growth in the digital space has come at a heavy price, with the digital businesses reporting rising quarterly losses. Some of the losses could be mitigated in the future by volume growth and economies of scale, but we fear that the markets for e-hailing ride services, food delivery, etc. are already very crowded given established incumbents in Grab and Food Panda, that are advertising heavily and regularly offering discounts and promotions. As such, AAGB's new food delivery and ride hailing businesses could face long, tough trench warfare ahead.

Nevertheless, we have decided to include some of the digital valuation into AAGB's RNAV and target price to reflect the amount of work that has been done to build the platforms and to market them to users regionally.

Figure 3: Financial performance of the AirAsia Digital group (on a non-consolidated, individual entity basis)

In RM m	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21
AirAsia Digital group											
Revenue	143.6	163.6	168.0	209.8	182.1	74.1	73.5	51.3	116.0	187.8	177.9
Less: Opex	-141.4	-164.1	-193.5	-235.8	-204.7	-124.9	-104.1	-77.6	-171.7	-280.1	-311.9
EBITDA	2.2	-0.5	-25.5	-26.0	-22.7	-50.8	-30.6	-26.4	-55.7	-92.3	-134.1
<i>Comprising:</i>											
(A) Teleport	15.1	19.1	7.6	13.4	12.0	-10.5	-7.1	2.4	-10.2	-26.5	-17.4
(B) Big Pay group	-12.0	-16.4	-21.3	-29.1	-28.2	-24.1	-17.1	-17.3	-17.5	-21.2	-32.9
(C) AirAsia Superapp	0.6	1.9	-10.5	-1.0	-5.3	-15.5	-5.1	-11.5	-16.2	-41.0	-77.6
(D) Other digital businesses	-1.4	-5.1	-1.4	-9.3	-1.1	-0.8	-1.3		-11.8	-3.6	-6.3

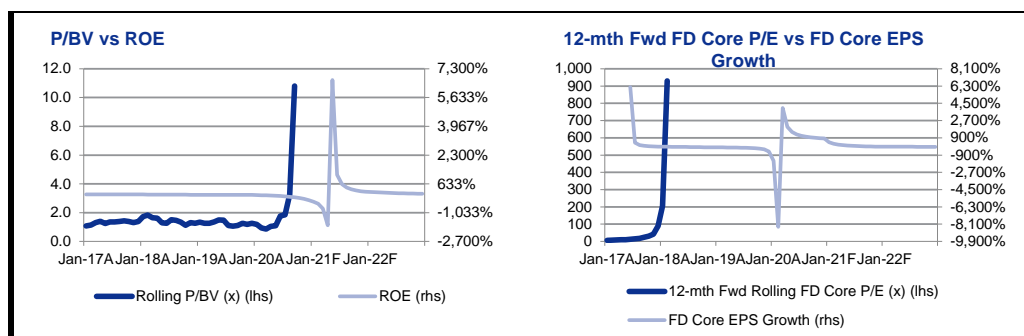
SOURCES: CGS-CIMB RESEARCH ESTIMATES, COMPANY REPORTS

De-rating catalysts and upside risks

Potential de-rating catalysts include the potential for longer-than-expected shutdowns in global international travel as various countries keep their travel bans and restrictions on inbound travellers in place to prevent imported cases of Covid-19, especially in view of the more infectious Omicron variant. Higher oil prices could hurt net profits in the immediate future, since AAGB no longer has any outstanding fuel derivatives since early-unwinding them in 1Q21. A new ultra-low-cost carrier (ULCC) airline, MYAirline, is currently in the process of setting up in Malaysia, having already signed deals to lease two A320s at the prevailing cheap leasing rates (due to the lack of demand for aircraft capacity during the pandemic). Also, Malindo may pull back aircraft from Indonesia into Malaysia once demand recovers sufficiently in Malaysia; these are the 737 jets that were transferred to Indonesia during 2020.

Potential upside risks include a faster-than-expected recovery in international passenger traffic sometime during CY22F, following possible containment of the global Covid-19 pandemic once the Omicron wave passes. Another upside risk is if AAGB secures a higher-than-expected lease-rate discount as a result of AAGB's ongoing efforts to renegotiate its operating lease liabilities with its aircraft lessors. Finally, if the digital businesses succeed, there could be upside to the RM2bn digital business valuation that we have included in our target price.

BY THE NUMBERS



Profit & Loss

(RMm)	Dec-19A	Dec-20A	Dec-21F	Dec-22F	Dec-23F
Total Net Revenues	12,294	3,141	1,320	5,615	10,099
Gross Profit	2,043	-1,761	-1,396	-195	1,140
Operating EBITDA	2,043	-1,761	-1,396	-195	1,140
Depreciation And Amortisation	-1,987	-2,071	-1,991	-2,003	-2,014
Operating EBIT	56	-3,832	-3,388	-2,198	-874
Financial Income/(Expense)	-673	-540	-539	-611	-607
Pretax Income/(Loss) from Assoc.	-482	-64	-60	-30	20
Non-Operating Income/(Expense)	488	233	100	300	350
Profit Before Tax (pre-EI)	-611	-4,202	-3,887	-2,539	-1,111
Exceptional Items	43	-1,379	0	0	0
Pre-tax Profit	-568	-5,581	-3,887	-2,539	-1,111
Taxation	264	-283	-2	-2	-2
Exceptional Income - post-tax					
Profit After Tax	-304	-5,864	-3,889	-2,541	-1,113
Minority Interests	-17	771	800	700	500
Preferred Dividends	0	0	0	0	0
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	-322	-5,093	-3,089	-1,841	-613
Recurring Net Profit	-547	-5,147	-4,409	-2,853	-1,165
Fully Diluted Recurring Net Profit	-547	-5,147	-4,409	-2,853	-1,165

Cash Flow

(RMm)	Dec-19A	Dec-20A	Dec-21F	Dec-22F	Dec-23F
EBITDA	2,043	-1,761	-1,396	-195	1,140
Cash Flow from Invt. & Assoc.					
Change In Working Capital	625	-433	152	131	-700
(Incr)/Decr in Total Provisions					
Other Non-Cash (Income)/Expense					
Other Operating Cashflow	1	94	0	-0	0
Net Interest (Paid)/Received	0	0	0	0	0
Tax Paid	10	-4	-2	-2	-2
Cashflow From Operations	2,678	-2,104	-1,247	-66	438
Capex	-296	-172	-150	-150	-150
Disposals Of FAs/subsidiaries	4,799	552	0	0	0
Acq. Of Subsidiaries/investments	0	0	0	0	0
Other Investing Cashflow	280	-11	0	0	0
Cash Flow From Investing	4,784	369	-150	-150	-150
Debt Raised/(repaid)	-4,175	239	-42	-56	-51
Proceeds From Issue Of Shares	0	0	336	0	0
Shares Repurchased	0	0	0	0	0
Dividends Paid	-3,409	0	0	0	0
Preferred Dividends					
Other Financing Cashflow	-659	-626	1,043	95	42
Cash Flow From Financing	-8,243	-387	1,337	39	-9
Total Cash Generated	-780	-2,122	-60	-178	279
Free Cashflow To Equity	3,287	-1,496	-1,438	-272	237
Free Cashflow To Firm	7,462	-1,735	-1,397	-216	288

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS

BY THE NUMBERS... cont'd

Balance Sheet

(RMm)	Dec-19A	Dec-20A	Dec-21F	Dec-22F	Dec-23F
Total Cash And Equivalents	2,588	541	481	303	582
Total Debtors	1,674	896	428	689	1,089
Inventories	146	141	141	141	141
Total Other Current Assets	884	733	733	733	733
Total Current Assets	5,292	2,310	1,783	1,867	2,545
Fixed Assets	1,202	1,120	1,121	1,109	1,087
Total Investments	703	542	482	452	472
Intangible Assets	635	641	641	641	641
Total Other Non-Current Assets	17,762	15,354	13,615	11,773	9,931
Total Non-current Assets	20,302	17,656	15,858	13,974	12,130
Short-term Debt	342	787	787	787	787
Current Portion of Long-Term Debt	2,272	3,533	2,588	2,694	2,805
Total Creditors	3,357	3,224	2,908	3,300	3,000
Other Current Liabilities	1,164	621	621	621	621
Total Current Liabilities	7,135	8,164	6,904	7,402	7,212
Total Long-term Debt	87	496	454	398	347
Hybrid Debt - Debt Component			836	836	836
Total Other Non-Current Liabilities	15,462	14,890	16,343	16,642	16,831
Total Non-current Liabilities	15,549	15,386	17,634	17,877	18,014
Total Provisions	0	0	0	0	0
Total Liabilities	22,684	23,551	24,537	25,279	25,226
Shareholders' Equity	4,498	-1,233	-3,745	-5,586	-6,200
Minority Interests	-1,588	-2,351	-3,151	-3,851	-4,351
Total Equity	2,911	-3,585	-6,897	-9,438	-10,551

Key Ratios

	Dec-19A	Dec-20A	Dec-21F	Dec-22F	Dec-23F
Revenue Growth	16%	(74%)	(58%)	325%	80%
Operating EBITDA Growth	155%	(186%)	(21%)	(86%)	N/A
Operating EBITDA Margin	17%	(56%)	(106%)	(3%)	11%
Net Cash Per Share (RM)	-3.08	-4.03	-3.81	-3.94	-3.93
BVPS (RM)	1.35	-0.37	-0.96	-1.43	-1.59
Gross Interest Cover	0.08	-6.09	-6.16	-3.55	-1.42
Effective Tax Rate	0%	0%	0%	0%	0%
Net Dividend Payout Ratio	NA	NA	NA	NA	NA
Accounts Receivables Days	44.4	113.0	158.4	30.5	28.9
Inventory Days	4.49	10.73	19.01	8.88	5.76
Accounts Payables Days	85.0	165.3	319.3	157.0	91.7
ROIC (%)	0.5%	(16.2%)	(16.9%)	(12.5%)	(5.9%)
ROCE (%)	1.0%	(28.5%)	(35.8%)	(29.9%)	(14.9%)
Return On Average Assets	(0.6%)	(16.7%)	(18.5%)	(12.4%)	(4.3%)

Key Drivers

	Dec-19A	Dec-20A	Dec-21F	Dec-22F	Dec-23F
Available Seat Kilometres (m)	74,643.0	19,110.0	7,166.1	34,096.4	62,803.3
Revenue Passenger Kilometres (m)	63,382.0	14,481.0	5,774.5	27,437.5	52,348.9
Passenger load factor (%)	84.9%	75.8%	80.6%	80.5%	83.4%
Paseenger yield (sen/RPK)	18.6	21.2	21.2	20.1	19.1

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS

DISCLAIMER

The content of this report (including the views and opinions expressed therein, and the information comprised therein) has been prepared by and belongs to CGS-CIMB. Reports relating to a specific geographical area are produced and distributed by the corresponding CGS-CIMB entity as listed in the table below.

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.

By accepting this report, the recipient hereof represents and warrants that he is entitled to receive such report in accordance with the restrictions set forth below and agrees to be bound by the limitations contained herein (including the "Restrictions on Distributions" set out below). Any failure to comply with these limitations may constitute a violation of law. This publication is being supplied to you strictly on the basis that it will remain confidential. No part of this report may be (i) copied, photocopied, duplicated, stored or reproduced in any form by any means; or (ii) redistributed or passed on, directly or indirectly, to any other person in whole or in part, for any purpose without the prior written consent of CGS-CIMB.

The information contained in this research report is prepared from data believed to be correct and reliable at the time of issue of this report. CGS-CIMB may or may not issue regular reports on the subject matter of this report at any frequency and may cease to do so or change the periodicity of reports at any time. CGS-CIMB has no obligation to update this report in the event of a material change to the information contained in this report. CGS-CIMB does not accept any obligation to (i) check or ensure that the contents of this report remain current, reliable or relevant, (ii) ensure that the content of this report constitutes all the information a prospective investor may require, (iii) ensure the adequacy, accuracy, completeness, reliability or fairness of any views, opinions and information, and accordingly, CGS-CIMB, its affiliates and related persons including China Galaxy International Financial Holdings Limited ("CGIFHL") and CIMB Group Sdn. Bhd. ("CIMBG") and their respective related corporations (and their respective directors, associates, connected persons and/or employees) shall not be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof. In particular, CGS-CIMB disclaims all responsibility and liability for the views and opinions set out in this report.

Unless otherwise specified, this report is based upon sources which CGS-CIMB considers to be reasonable. Such sources will, unless otherwise specified, for market data, be market data and prices available from the main stock exchange or market where the relevant security is listed, or, where appropriate, any other market. Information on the accounts and business of company(ies) will generally be based on published statements of the company(ies), information disseminated by regulatory information services, other publicly available information and information resulting from our research.

Whilst every effort is made to ensure that statements of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable as of the date of the document in which they are contained and must not be construed as a representation that the matters referred to therein will occur. Past performance is not a reliable indicator of future performance. The value of investments may go down as well as up and those investing may, depending on the investments in question, lose more than the initial investment. No report shall constitute an offer or an invitation by or on behalf of CGS-CIMB or any of its affiliates (including CGIFHL, CIMBG and their respective related corporations) to any person to buy or sell any investments.

CGS-CIMB, its affiliates and related corporations (including CGIFHL, CIMBG and their respective related corporations) and/or their respective directors, associates, connected parties and/or employees may own or have positions in securities of the company(ies) covered in this research report or any securities related thereto and may from time to time add to or dispose of, or may be materially interested in, any such securities. Further, CGS-CIMB, its affiliates and their respective related corporations (including CGIFHL, CIMBG and their respective related corporations) do and seek to do business with the company(ies) covered in this research report and may from time to time act as market maker or have assumed an underwriting commitment in securities of such company(ies), may sell them to or buy them from customers on a principal basis and may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) as well as solicit such investment, advisory or other services from any entity mentioned in this report.

CGS-CIMB or its affiliates (including CGIFHL, CIMBG and their respective related corporations) may enter into an agreement with the company(ies) covered in this report relating to the production of research reports. CGS-CIMB may disclose the contents of this report to the company(ies) covered by it and may have amended the contents of this report following such disclosure.

The analyst responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and autonomously. No part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations(s) or view(s) in this report. The analyst(s) who prepared this research report is prohibited from receiving any compensation, incentive or bonus based on specific investment banking transactions or for providing a specific recommendation for, or view of, a particular company. Information barriers and other arrangements may be established where necessary to prevent conflicts of interests arising. However, the analyst(s) may receive compensation that is based on his/their coverage of company(ies) in the performance of his/their duties or the performance of his/their recommendations and the research personnel involved in the preparation of this report may also participate in the solicitation of the businesses as described above. In reviewing this research report, an investor should be aware that any or all of the foregoing, among other things, may give rise to real or potential conflicts of interest. Additional information is, subject to the duties of confidentiality, available on request.

Reports relating to a specific geographical area are produced by the corresponding CGS-CIMB entity as listed in the table below. The term "CGS-CIMB" shall denote, where appropriate, the relevant entity distributing or disseminating the report in the particular jurisdiction referenced below, or, in every other case except as otherwise stated herein, CGS-CIMB Securities International Pte. Ltd. and its affiliates, subsidiaries and related corporations.

Country	CGS-CIMB Entity	Regulated by
Hong Kong	CGS-CIMB Securities (Hong Kong) Limited	Securities and Futures Commission Hong Kong
India	CGS-CIMB Securities (India) Private Limited	Securities and Exchange Board of India (SEBI)
Indonesia	PT CGS-CIMB Sekuritas Indonesia	Financial Services Authority of Indonesia
Malaysia	CGS-CIMB Securities Sdn. Bhd.	Securities Commission Malaysia
Singapore	CGS-CIMB Securities (Singapore) Pte. Ltd.	Monetary Authority of Singapore
South Korea	CGS-CIMB Securities (Hong Kong) Limited, Korea Branch	Financial Services Commission and Financial Supervisory Service
Thailand	CGS-CIMB Securities (Thailand) Co. Ltd.	Securities and Exchange Commission Thailand

Other Significant Financial Interests:

(i) As of December 31, 2021 CGS-CIMB has a proprietary position in the securities (which may include but not be limited to shares, warrants, call warrants and/or any other derivatives) in the following company or companies covered or recommended in this report:

(a) -

(ii) Analyst Disclosure: As of January 21, 2022, the analyst(s) who prepared this report, and the associate(s), has / have an interest in the securities (which may include but not be limited to shares, warrants, call warrants and/or any other derivatives) in the following company or companies covered or recommended in this report:

(a) -

This report does not purport to contain all the information that a prospective investor may require. Neither CGS-CIMB nor any of its affiliates (including CGIFHL, CIMBG and their related corporations) make any guarantee, representation or warranty, express or implied, as to the adequacy, accuracy, completeness, reliability or fairness of any such information and opinion contained in this report. Neither CGS-CIMB nor any of its affiliates nor their related persons (including CGIFHL, CIMBG and their related corporations) shall be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof.

This report is general in nature and has been prepared for information purposes only. It is intended for circulation amongst CGS-CIMB's clients generally and does not have regard to the specific investment objectives, financial situation and the particular needs of any specific person who may receive this report. The information and opinions in this report are not and should not be construed or considered as an offer, recommendation or solicitation to buy or sell the subject securities, related investments or other financial instruments or any derivative instrument, or any rights pertaining thereto.

Investors are advised to make their own independent evaluation of the information contained in this research report, consider their own individual investment objectives, financial situation and particular needs and consult their own professional and financial advisers as to the legal, business, financial, tax and other aspects before participating in any transaction in respect of the securities of company(ies) covered in this research report.

The securities of such company(ies) may not be eligible for sale in all jurisdictions or to all categories of investors.

Restrictions on Distributions

Australia: Despite anything in this report to the contrary, this research is provided in Australia by CGS-CIMB Securities (Singapore) Pte. Ltd. and CGS-CIMB Securities (Hong Kong) Limited. This research is only available in Australia to persons who are "wholesale clients" (within the meaning of the Corporations Act 2001 (Cth) and is supplied solely for the use of such wholesale clients and shall not be distributed or passed on to any other person. You represent and warrant that if you are in Australia, you are a "wholesale client". This research is of a general nature only and has been prepared without taking into account the objectives, financial situation or needs of the individual recipient. CGS-CIMB Securities (Singapore) Pte. Ltd. and CGS-CIMB Securities (Hong Kong) Limited do not hold, and are not required to hold an Australian financial services license. CGS-CIMB Securities (Singapore) Pte. Ltd. and CGS-CIMB Securities (Hong Kong) Limited rely on "passporting" exemptions for entities appropriately licensed by the Monetary Authority of Singapore (under ASIC Class Order 03/1102) and the Securities and Futures Commission in Hong Kong (under ASIC Class Order 03/1103).

Canada: This research report has not been prepared in accordance with the disclosure requirements of Dealer Member Rule 3400 – Research Restrictions and Disclosure Requirements of the Investment Industry Regulatory Organization of Canada. For any research report distributed by CIBC, further disclosures related to CIBC conflicts of interest can be found at <https://researchcentral.cibcwm.com>.

China: For the purpose of this report, the People's Republic of China ("PRC") does not include the Hong Kong Special Administrative Region, the Macau Special Administrative Region or Taiwan. The distributor of this report has not been approved or licensed by the China Securities Regulatory Commission or any other relevant regulatory authority or governmental agency in the PRC. This report contains only marketing information. The distribution of this report is not an offer to buy or sell to any person within or outside PRC or a solicitation to any person within or outside of PRC to buy or sell any instruments described herein. This report is being issued outside the PRC to a limited number of institutional investors and may not be provided to any person other than the original recipient and may not be reproduced or used for any other purpose.

France: Only qualified investors within the meaning of French law shall have access to this report. This report shall not be considered as an offer to subscribe to, or used in connection with, any offer for subscription or sale or marketing or direct or indirect distribution of financial instruments and it is not intended as a solicitation for the purchase of any financial instrument.

Germany: This report is only directed at persons who are professional investors as defined in sec 31a(2) of the German Securities Trading Act (WpHG). This publication constitutes research of a non-binding nature on the market situation and the investment instruments cited here at the time of the publication of the information.

The current prices/yields in this issue are based upon closing prices from Bloomberg as of the day preceding publication. Please note that neither the German Federal Financial Supervisory Agency (BaFin), nor any other supervisory authority exercises any control over the content of this report.

Hong Kong: This report is issued and distributed in Hong Kong by CGS-CIMB Securities (Hong Kong) Limited ("CHK") which is licensed in Hong Kong by the Securities and Futures Commission for Type 1 (dealing in securities) and Type 4 (advising on securities) activities. Any investors wishing to purchase or otherwise deal in the securities covered in this report should contact the Head of Sales at CGS-CIMB Securities (Hong Kong) Limited. The views and opinions in this research report are our own as of the date hereof and are subject to change. If the Financial Services and Markets

Act of the United Kingdom or the rules of the Financial Conduct Authority apply to a recipient, our obligations owed to such recipient therein are unaffected. CHK has no obligation to update its opinion or the information in this research report.

This publication is strictly confidential and is for private circulation only to clients of CHK.

CHK does not make a market on other securities mentioned in the report.

India: This report is issued and distributed in India by CGS-CIMB Securities (India) Private Limited (“CGS-CIMB India”). CGS-CIMB India is a subsidiary of CGS-CIMB Securities International Pte. Ltd. which is in turn is a 50:50 joint venture company of CGIFHL and CIMBG. The details of the members of the group of companies of CGS-CIMB can be found at www.cgs-cimb.com, CGIFHL at www.chinastock.com.hk/en/ACG/ContactUs/index.aspx and CIMBG at www.cimb.com/en/who-we-are.html. CGS-CIMB India is registered with the National Stock Exchange of India Limited and BSE Limited as a trading and clearing member (Merchant Banking Number: INM000012037) under the Securities and Exchange Board of India (Stock Brokers and Sub-Brokers) Regulations, 1992. In accordance with the provisions of Regulation 4(g) of the Securities and Exchange Board of India (Investment Advisers) Regulations, 2013, CGS-CIMB India is not required to seek registration with the Securities and Exchange Board of India (“SEBI”) as an Investment Adviser. CGS-CIMB India is registered with SEBI (SEBI Registration Number: INZ000209135) as a Research Analyst (INH000000669) pursuant to the SEBI (Research Analysts) Regulations, 2014 (“Regulations”).

This report does not take into account the particular investment objectives, financial situations, or needs of the recipients. It is not intended for and does not deal with prohibitions on investment due to law/jurisdiction issues etc. which may exist for certain persons/entities. Recipients should rely on their own investigations and take their own professional advice before investment.

The report is not a “prospectus” as defined under Indian Law, including the Companies Act, 2013, and is not, and shall not be, approved by, or filed or registered with, any Indian regulator, including any Registrar of Companies in India, SEBI, any Indian stock exchange, or the Reserve Bank of India. No offer, or invitation to offer, or solicitation of subscription with respect to any such securities listed or proposed to be listed in India is being made, or intended to be made, to the public, or to any member or section of the public in India, through or pursuant to this report.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of CGS-CIMB India and they have received compensation based upon various factors, including quality, accuracy and value of research, firm profitability or revenues, client feedback and competitive factors. Research analysts', strategists' or economists' compensation is not linked to investment banking or capital markets transactions performed or proposed to be performed by CGS-CIMB India or its affiliates.

CGS-CIMB India does not have actual / beneficial ownership of 1% or more securities of the subject company in this research report, at the end of the month immediately preceding the date of publication of this research report. However, since affiliates of CGS-CIMB India are engaged in the financial services business, they might have in their normal course of business financial interests or actual / beneficial ownership of one per cent or more in various companies including the subject company in this research report.

CGS-CIMB India or its associates, may: (a) from time to time, have long or short position in, and buy or sell the securities of the subject company in this research report; or (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the subject company in this research report or act as an advisor or lender/borrower to such company or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions.

CGS-CIMB India, its associates and the analyst engaged in preparation of this research report have not received any compensation for investment banking, merchant banking or brokerage services from the subject company mentioned in the research report in the past 12 months.

CGS-CIMB India, its associates and the analyst engaged in preparation of this research report have not managed or co-managed public offering of securities for the subject company mentioned in the research report in the past 12 months. The analyst from CGS-CIMB India engaged in preparation of this research report or his/her relative (a) do not have any financial interests in the subject company mentioned in this research report; (b) do not own 1% or more of the equity securities of the subject company mentioned in the research report as of the last day of the month preceding the publication of the research report; (c) do not have any material conflict of interest at the time of publication of the research report.

Indonesia: This report is issued and distributed by PT CGS-CIMB Sekuritas Indonesia (“CGS-CIMB Indonesia”). The views and opinions in this research report are our own as of the date hereof and are subject to change. CGS-CIMB Indonesia has no obligation to update its opinion or the information in this research report. This report is for private circulation only to clients of CGS-CIMB Indonesia. Neither this report nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens wherever they are domiciled or to Indonesian residents except in compliance with applicable Indonesian capital market laws and regulations.

This research report is not an offer of securities in Indonesia. The securities referred to in this research report have not been registered with the Financial Services Authority (Otoritas Jasa Keuangan) pursuant to relevant capital market laws and regulations, and may not be offered or sold within the territory of the Republic of Indonesia or to Indonesian citizens through a public offering or in circumstances which constitute an offer within the meaning of the Indonesian capital market law and regulations.

Ireland: CGS-CIMB is not an investment firm authorised in the Republic of Ireland and no part of this document should be construed as CGS-CIMB acting as, or otherwise claiming or representing to be, an investment firm authorised in the Republic of Ireland.

Malaysia: This report is distributed in Malaysia by CGS-CIMB Securities Sdn. Bhd. (“CGS-CIMB Malaysia”) solely for the benefit of and for the exclusive use of our clients. Recipients of this report are to contact CGS-CIMB Malaysia, at Level 29, Menara Bumiputra-Commerce, No. 11, Jalan Raja Laut, 50350 Kuala Lumpur, Malaysia, in respect of any matters arising from or in connection with this report. CGS-CIMB Malaysia has no obligation to update, revise or reaffirm its opinion or the information in this research reports after the date of this report.

New Zealand: In New Zealand, this report is for distribution only to persons who are wholesale clients pursuant to section 5C of the Financial Advisers Act 2008.

Singapore: This report is issued and distributed by CGS-CIMB Securities (Singapore) Pte Ltd (“CGS-CIMB Singapore”). CGS-CIMB Singapore is a capital markets services licensee under the Securities and Futures Act (Chapter 289). Accordingly, it is exempted from the requirement to hold a financial adviser's licence under the Financial Advisers Act, Cap 110 (“FAA”) for advising on investment products, by issuing or promulgating research analyses or research reports, whether in electronic, print or other form. CGS-CIMB Singapore is subject to the applicable rules under the FAA unless it is able to avail itself to any prescribed exemptions.

Recipients of this report are to contact CGS-CIMB Singapore, 50 Raffles Place, #16-02 Singapore Land Tower, Singapore in respect of any matters

arising from, or in connection with this report. CGS-CIMB Singapore has no obligation to update its opinion or the information in this research report. This publication is strictly confidential and is for private circulation only. If you have not been sent this report by CGS-CIMB Singapore directly, you may not rely, use or disclose to anyone else this report or its contents.

If the recipient of this research report is not an accredited investor, expert investor or institutional investor, CGS-CIMB Singapore accepts legal responsibility for the contents of the report without any disclaimer limiting or otherwise curtailing such legal responsibility. If the recipient is an accredited investor, expert investor or institutional investor, the recipient is deemed to acknowledge that CGS-CIMB Singapore is exempt from certain requirements under the FAA and its attendant regulations, and as such, is exempt from complying with the following:

- (a) Section 25 of the FAA (obligation to disclose product information);
- (b) Section 27 (duty not to make recommendation with respect to any investment product without having a reasonable basis where you may be reasonably expected to rely on the recommendation) of the FAA;
- (c) MAS Notice on Information to Clients and Product Information Disclosure [Notice No. FAA-N03];
- (d) MAS Notice on Recommendation on Investment Products [Notice No. FAA-N16];
- (e) Section 36 (obligation on disclosure of interest in specified products), and
- (f) any other laws, regulations, notices, directive, guidelines, circulars and practice notes which are relates to the above, to the extent permitted by applicable laws, as may be amended from time to time, and any other laws, regulations, notices, directive, guidelines, circulars, and practice notes as we may notify you from time to time. In addition, the recipient who is an accredited investor, expert investor or institutional investor acknowledges that as CGS-CIMB Singapore is exempt from Section 27 of the FAA, the recipient will also not be able to file a civil claim against CGS-CIMB Singapore for any loss or damage arising from the recipient's reliance on any recommendation made by CGS-CIMB Singapore which would otherwise be a right that is available to the recipient under Section 27 of the FAA. .

CGS-CIMB Singapore, its affiliates and related corporations, their directors, associates, connected parties and/or employees may own or have positions in specified products of the company(ies) covered in this research report or any specified products related thereto and may from time to time add to or dispose of, or may be materially interested in, any such specified products. Further, CGS-CIMB Singapore, its affiliates and its related corporations do and seek to do business with the company(ies) covered in this research report and may from time to time act as market maker or have assumed an underwriting commitment in specified products of such company(ies), may sell them to or buy them from customers on a principal basis and may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) as well as solicit such investment, advisory or other services from any entity mentioned in this report.

As of January 21, 2022, CGS-CIMB Singapore does not have a proprietary position in the recommended specified products in this report.

CGS-CIMB Singapore does not make a market on the securities mentioned in the report.

South Korea: This report is issued and distributed in South Korea by CGS-CIMB Securities (Hong Kong) Limited, Korea Branch ("CGS-CIMB Korea") which is licensed as a cash equity broker, and regulated by the Financial Services Commission and Financial Supervisory Service of Korea. In South Korea, this report is for distribution only to professional investors under Article 9(5) of the Financial Investment Services and Capital Market Act of Korea ("FSCMA").

Spain: This document is a research report and it is addressed to institutional investors only. The research report is of a general nature and not personalised and does not constitute investment advice so, as the case may be, the recipient must seek proper advice before adopting any investment decision. This document does not constitute a public offering of securities.

CGS-CIMB is not registered with the Spanish Comision Nacional del Mercado de Valores to provide investment services.

Sweden: This report contains only marketing information and has not been approved by the Swedish Financial Supervisory Authority. The distribution of this report is not an offer to sell to any person in Sweden or a solicitation to any person in Sweden to buy any instruments described herein and may not be forwarded to the public in Sweden.

Switzerland: This report has not been prepared in accordance with the recognized self-regulatory minimal standards for research reports of banks issued by the Swiss Bankers' Association (Directives on the Independence of Financial Research).

Thailand: This report is issued and distributed by CGS-CIMB Securities (Thailand) Co. Ltd. ("CGS-CIMB Thailand") based upon sources believed to be reliable (but their accuracy, completeness or correctness is not guaranteed). The statements or expressions of opinion herein were arrived at after due and careful consideration for use as information for investment. Such opinions are subject to change without notice and CGS-CIMB Thailand has no obligation to update its opinion or the information in this research report.

CGS-CIMB Thailand may act or acts as Market Maker, and issuer and offeror of Derivative Warrants and Structured Note which may have the following securities as its underlying securities. Investors should carefully read and study the details of the derivative warrants in the prospectus before making investment decisions.

AAV, ACE, ADVANC, AEONTS, AMATA, AOT, AP, BAM, BANPU, BBL, BCH, BCP, BCPG, BDMS, BEC, BEM, BGRIM, BH, BJC, BTS, CBG, CENTEL, CHG, CK, CKP, COM7, CPALL, CPF, CPN, CRC, DELTA, DOHOME, DTAC, EA, EGCO, ESSO, GLOBAL, GPSC, GULF, GUNKUL, HANA, HMPRO, ICHI, INTUCH, IRPC, IVL, JAS, JMART, JMT, KBANK, KCE, KKP, KTB, KTC, LH, MAJOR, MEGA, MINT, MTC, NRF, OR, ORI, OSP, PLANB, PRM, PSL, PTG, PTL, PTT, PTTEP, PTTGC, QH, RATCH, RBF, RS, SAWAD, SCB, SCC, SCGP, SINGER, SPALI, SPRC, STA, STEC, STGT, SUPER, SYNEX, TASCO, TCAP, THANI, TISCO, TKN, TOP, TQM, TRUE, TTB, TU, TVO, VGI, WHA

Corporate Governance Report:

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 result may be changed after that date. CGS-CIMB Thailand does not confirm nor certify the accuracy of such survey result.

Score Range:	90 - 100	80 – 89	70 - 79	Below 70	No Survey Result
Description:	Excellent	Very Good	Good	N/A	N/A

United Arab Emirates: The distributor of this report has not been approved or licensed by the UAE Central Bank or any other relevant licensing

authorities or governmental agencies in the United Arab Emirates. This report is strictly private and confidential and has not been reviewed by, deposited or registered with UAE Central Bank or any other licensing authority or governmental agencies in the United Arab Emirates. This report is being issued outside the United Arab Emirates to a limited number of institutional investors and must not be provided to any person other than the original recipient and may not be reproduced or used for any other purpose. Further, the information contained in this report is not intended to lead to the sale of investments under any subscription agreement or the conclusion of any other contract of whatsoever nature within the territory of the United Arab Emirates.

United Kingdom and European Economic Area (EEA): In the United Kingdom and European Economic Area, this material is also being distributed by CGS-CIMB Securities (UK) Limited (“CGS-CIMB UK”). CGS-CIMB UK is authorized and regulated by the Financial Conduct Authority and its registered office is at 53 New Broad Street, London EC2M 1JJ. The material distributed by CGS-CIMB UK has been prepared in accordance with CGS-CIMB’s policies for managing conflicts of interest arising as a result of publication and distribution of this material. This material is for distribution only to, and is solely directed at, selected persons on the basis that those persons: (a) are eligible counterparties and professional clients of CGS-CIMB UK; (b) have professional experience in matters relating to investments falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended, the “Order”), (c) fall within Article 49(2)(a) to (d) (“high net worth companies, unincorporated associations etc”) of the Order; (d) are outside the United Kingdom subject to relevant regulation in each jurisdiction, material(all such persons together being referred to as “relevant persons”). This material is directed only at relevant persons and must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this material relates is available only to relevant persons and will be engaged in only with relevant persons.

This material is categorised as non-independent for the purposes of CGS-CIMB UK and therefore does not provide an impartial or objective assessment of the subject matter and does not constitute independent research. Consequently, this material has not been prepared in accordance with legal requirements designed to promote the independence of research and will not be subject to any prohibition on dealing ahead of the dissemination of research. Therefore, this material is considered a marketing communication.

United States: This research report is distributed in the United States of America by CGS-CIMB Securities (USA) Inc, a U.S. registered broker-dealer and an affiliate of CGS-CIMB Securities Sdn. Bhd., CGS-CIMB Securities (Singapore) Pte Ltd, PT CGS-CIMB Sekuritas Indonesia, CGS-CIMB Securities (Thailand) Co. Ltd, CGS-CIMB Securities (Hong Kong) Limited and CGS-CIMB Securities (India) Private Limited, and is distributed solely to persons who qualify as “U.S. Institutional Investors” as defined in Rule 15a-6 under the Securities and Exchange Act of 1934. This communication is only for Institutional Investors whose ordinary business activities involve investing in shares, bonds, and associated securities and/or derivative securities and who have professional experience in such investments. Any person who is not a U.S. Institutional Investor or Major Institutional Investor must not rely on this communication. The delivery of this research report to any person in the United States of America is not a recommendation to effect any transactions in the securities discussed herein, or an endorsement of any opinion expressed herein. CGS-CIMB Securities (USA) Inc, is a FINRA/SIPC member and takes responsibility for the content of this report. For further information or to place an order in any of the above-mentioned securities please contact a registered representative of CGS-CIMB Securities (USA) Inc.

CGS-CIMB Securities (USA) Inc. does not make a market on other securities mentioned in the report.

CGS-CIMB Securities (USA) Inc. has not managed or co-managed a public offering of any of the securities mentioned in the past 12 months.

CGS-CIMB Securities (USA) Inc. has not received compensation for investment banking services from any of the company mentioned in the past 12 months.

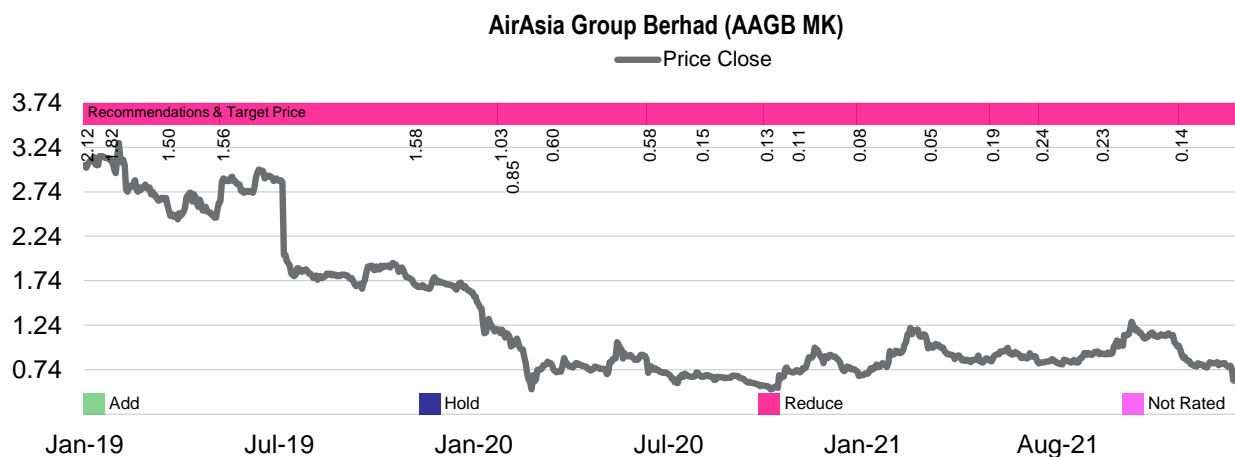
CGS-CIMB Securities (USA) Inc. neither expects to receive nor intends to seek compensation for investment banking services from any of the company mentioned within the next 3 months.

United States Third-Party Disclaimer: If this report is distributed in the United States of America by Raymond James & Associates, Inc (“RJA”), this report is third-party research prepared for and distributed in the United States of America by RJA pursuant to an arrangement between RJA and CGS-CIMB Securities International Pte. Ltd. (“CGS-CIMB”). CGS-CIMB is not an affiliate of RJA. This report is distributed solely to persons who qualify as “U.S. Institutional Investors” or as “Major U.S. Institutional Investors” as defined in Rule 15a-6 under the Securities and Exchange Act of 1934, as amended. This communication is only for U.S. Institutional Investors or Major U.S. Institutional Investor whose ordinary business activities involve investing in shares, bonds, and associated securities and/or derivative securities and who have professional experience in such investments. Any person who is not a U.S. Institutional Investor or Major U.S. Institutional Investor must not rely on this communication. The delivery of this report to any person in the U.S. is not a recommendation to effect any transactions in the securities discussed herein, or an endorsement of any opinion expressed herein. If you are receiving this report in the U.S from RJA, a FINRA/SIPC member, it takes responsibility for the content of this report. For further information or to place an order in any of the above-mentioned securities please contact a registered representative of CGS-CIMB Securities (USA) Inc. or RJA. <https://raymondjames.com/InternationalEquityDisclosures>

Other jurisdictions: In any other jurisdictions, except if otherwise restricted by laws or regulations, this report is only for distribution to professional, institutional or sophisticated investors as defined in the laws and regulations of such jurisdictions.

Distribution of stock ratings and investment banking clients for quarter ended on 31 December 2021		
619 companies under coverage for quarter ended on 31 December 2021		
	Rating Distribution (%)	Investment Banking clients (%)
Add	71.1%	1.5%
Hold	21.8%	0.0%
Reduce	7.1%	0.0%

Spitzer Chart for stock being researched (2 year data)



Corporate Governance Report of Thai Listed Companies (CGR). CG Rating by the Thai Institute of Directors Association (Thai IOD) in 2021, Anti-Corruption 2021

ADVANC – Excellent, Certified, **AMATA** – Excellent, Certified, **ANAN** – Excellent, n/a, **AOT** – Excellent, n/a, **AP** – Excellent, Certified, **ASP** – Excellent, n/a, **AWC** – Excellent, Declared, **AU** – Good, n/a, **BAM** – Very Good, Certified, **BAY** – Excellent, Certified, **BBL** – Excellent, Certified, **BCH** – Very Good, Certified, **BCP** - Excellent, Certified, **BCPG** – Excellent, Certified, **BDMS** – Excellent, n/a, **BEAUTY** – Good, n/a, **BEM** – Excellent, n/a **BH** - Good, n/a, **BJC** – Very Good, n/a, **BLA** – Very Good, Certified, **BTS** - Excellent, Certified, **CBG** – Very Good, n/a, **CCET** – n/a, n/a, **CENTEL** – Excellent, Certified, **CHAYO** – Very Good, n/a, **CHG** – Very Good, n/a, **CK** – Excellent, n/a, **COM7** – Excellent, Certified, **CPALL** – Excellent, Certified, **CPF** – Excellent, Certified, **CPN** - Excellent, Certified, **CPNREIT** – n/a, n/a, **CRC** – Excellent, Declared, **DELTA** - Excellent, Certified, **DDD** – Excellent, n/a, **DIF** – n/a, n/a, **DOHOME** – Very Good, Declared, **DREIT** – n/a, n/a, **DTAC** – Excellent, Certified, **ECL** – Excellent, Certified, **EGCO** - Excellent, Certified, **EPG** – Excellent, Certified, **ERW** – Very Good, Certified, **GFPT** - Excellent, Certified, **GGC** – Excellent, Certified, **GLOBAL** – Excellent, n/a, **HANA** - Excellent, Certified, **HMPRO** - Excellent, Certified, **HUMAN** – Good, n/a, **ICHI** – Excellent, Certified, **III** – Excellent, Declared, **INTUCH** - Excellent, Certified, **IRPC** – Excellent, Certified, **ITD** – Very Good, n/a, **IVL** - Excellent, Certified, **JASIF** – n/a, n/a, **JKN** – n/a, Certified, **JMT** – Very Good, n/a, **KBANK** - Excellent, Certified, **KCE** - Excellent, Certified, **KEX** – Very Good, Declared, **KKP** – Excellent, Certified, **KSL** – Excellent, Certified, **KTB** - Excellent, Certified, **KTC** – Excellent, Certified, **LH** - Excellent, n/a, **LPN** – Excellent, Certified, **M** – Very Good, Certified, **MAKRO** – Excellent, Certified, **MC** – Excellent, Certified, **MEGA** – Very Good, n/a, **MINT** - Excellent, Certified, **MTC** – Excellent, Certified, **NETBAY** – Very Good, n/a, **NRF** – Very Good, Declared, **OR** – Excellent, n/a, **ORI** – Excellent, Certified, **OSP** – Excellent, n/a, **PLANB** – Excellent, Certified, **PRINC** – Very Good, Certified, **PR9** – Excellent, Declared, **PSH** – Excellent, Certified, **PTT** - Excellent, Certified, **PTTEP** - Excellent, n/a, **PTTGC** - Excellent, Certified, **QH** – Excellent, Certified, **RAM** – n/a, n/a, **RBF** – Very Good, n/a, **RS** – Excellent, Declared, **RSP** – Good, n/a, **S** – Excellent, n/a, **SAK** – Very Good, Declared, **SAPPE** – Very Good, Certified, **SAWAD** – Very Good, n/a, **SCB** - Excellent, Certified, **SCC** – Excellent, Certified, **SCGP** – Excellent, Declared, **SECURE** – n/a, n/a, **SHR** – Excellent, n/a, **SIRI** – Excellent, Certified, **SPA** – Very Good, n/a, **SPALI** - Excellent, Certified, **SPRC** – Excellent, Certified, **SSP** - Good, Certified, **STEC** – Excellent, n/a, **SVI** – Excellent, Certified, **SYNEX** – Very Good, Certified, **TCAP** – Excellent, Certified, **THANI** – Excellent, Certified, **TIDLOR** – n/a, Certified **TISCO** - Excellent, Certified, **TKN** – Very Good, n/a, **TOP** - Excellent, Certified, **TRUE** – Excellent, Certified, **TTB** - Excellent, Certified, **TU** – Excellent, Certified, **TVO** – Excellent, Certified, **VGI** – Excellent, Certified, **WHA** – Excellent, Certified, **WHART** – n/a, n/a, **WICE** – Excellent, Certified, **WORK** – Good, n/a.

- CG Score 2021 from Thai Institute of Directors Association (IOD)

- Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of August 5, 2021) are categorised into: companies that have declared their intention to join CAC, and companies certified by CAC.

Recommendation Framework	
Stock Ratings	Definition:
Add	The stock's total return is expected to exceed 10% over the next 12 months.
Hold	The stock's total return is expected to be between 0% and positive 10% over the next 12 months.
Reduce	The stock's total return is expected to fall below 0% or more over the next 12 months.
<i>The total expected return of a stock is defined as the sum of the: (i) percentage difference between the target price and the current price and (ii) the forward net dividend yields of the stock. Stock price targets have an investment horizon of 12 months.</i>	
Sector Ratings	Definition:
Overweight	An Overweight rating means stocks in the sector have, on a market cap-weighted basis, a positive absolute recommendation.
Neutral	A Neutral rating means stocks in the sector have, on a market cap-weighted basis, a neutral absolute recommendation.
Underweight	An Underweight rating means stocks in the sector have, on a market cap-weighted basis, a negative absolute recommendation.
Country Ratings	Definition:
Overweight	An Overweight rating means investors should be positioned with an above-market weight in this country relative to benchmark.
Neutral	A Neutral rating means investors should be positioned with a neutral weight in this country relative to benchmark.
Underweight	An Underweight rating means investors should be positioned with a below-market weight in this country relative to benchmark.

