

China

Neutral (no change)

Highlighted Companies

Bank of China ADD, TP HK\$4.20, HK\$2.55 close

We like Bank of China's (BOC) exposure to a rising US rate hike cycle via its HK subsidiary. We also like its inexpensive valuations (lowest FY22F P/BV ratio of the big four banks) and its high FY22F dividend yield (highest of big four banks).

China Merchants Bank ADD, TP HK\$84.10, HK\$30.10 close

China Merchants Bank (CMB) is our top sector pick. We believe its ROE and better-than-peers net profit will be sustained, driven by its retail banking operations. We think continued rising ROE under the new president could be a re-rating catalyst.

Ping An Bank ADD, TP Rmb22.70, Rmb11.34 close

Ping An Bank (PAB) is a key beneficiary of the ongoing recovery in credit card asset quality. It could also benefit noticeably from any loss of market share by fintech players given the stricter fintech regulatory environment.

Summary Valuation Metrics

P/E (x)	Dec-22F	Dec-23F	Dec-24F
Bank of China	3.08	2.80	2.52
China Merchants Bank	5.10	4.30	3.61
Ping An Bank	5.58	4.71	3.90
P/BV (x)	Dec-22F	Dec-23F	Dec-24F
Bank of China	0.33	0.31	0.28
China Merchants Bank	0.84	0.73	0.64
Ping An Bank	0.61	0.55	0.49
Dividend Yield	Dec-22F	Dec-23F	Dec-24F
Bank of China	10.25%	11.28%	12.53%
China Merchants Bank	6.47%	7.68%	9.15%
Ping An Bank	2.37%	2.81%	3.39%

Analyst(s)



Michael CHANG, CFA

T (852) 2539 1323

E michael.chang@cgs-cimb.com

Laura LI Zhiyi

T (852) 2532 1127 **E** laura.li@cgs-cimb.com

Banks

Easy to offer water; hard to make one drink

- While Sep system corporate loan growth accelerated yoy to a six-year high, we wonder whether corporates are actually spending the borrowed funds.
- Corporate time deposit growth is accelerating, especially among the big four banks (the main driver of loan growth) that tend to lend more to large SOEs.
- Requiring banks to lend to higher-risk sectors may accentuate this trend, as we think loans go to large safer firms that are less likely to need these funds.
- This could exacerbate net interest margin compression, with provisioning buffer drawdowns needed to ensure stable profitability. Retain Sector Neutral.

Strong Sep loans driven by corporate loan growth (a 6-year high)

Sep 2022's new Rmb loans were Rmb2.47tr (Bloomberg consensus Rmb1.8tr), with corporate loans the key driver. Sep Rmb loan growth yoy was 11.2% (Aug: 10.8%), with Sep corporate loans (including bills) growth at 13.4% (Aug: 12.8%) and the highest since Feb 2016's 13.5% yoy (Fig 9). Excluding bills, Sep corporate loan growth yoy was 11.7% (Aug: 10.7%). Household loan growth continued to be weak in Sep at 7.2% yoy (Aug: 7.4%), with Sep household short term loan growth yoy at 7.6% (Aug 7.9%) and Sep household long term loan growth yoy at 7% (Aug 7.3%) (Fig 7).

You can lead someone to water, but you cannot make them drink

A concern is that small banks have been increasingly filling up their loans with banks bills (Fig 5). Big four banks on the other hand, that lend more to large state-owned enterprises (SOE) than small banks and has been driving loan growth (Fig 10), are seeing much faster corporate time deposit growth (Fig 1). We had alluded to this twin phenomenon in *Plenty of money but where to invest?* dated 13 Sep 2022. We think this signals corporates are unwilling to invest the borrowed funds to grow their businesses and would rather place these funds in a time deposit, even if time deposit rates fall (see *Deposit rate cuts: History shows little benefit*, dated 16 Sep 2022).

Property credit quotas = higher corporate time deposit growth?

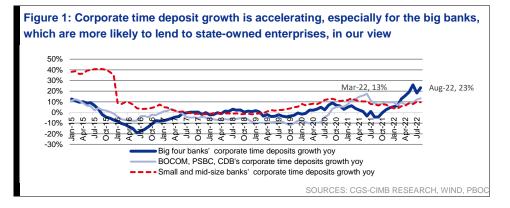
Bloomberg reported on 30 Sep 2022 that China's financial regulators told China's big six banks to each extend at least Rmb100bn (total of Rmb600bn), in the form of mortgages, loans to property developers and corporate bonds in the final four months of 2022. We estimate this Rmb600bn equates to 1.1% of total system financing to these property segments in Sep 2022 (Fig 27). We believe it is likely this credit is extended to large property developers and think corporate time deposit growth could continue accelerating.

Underlying credit demand improving qoq, except for property

Interestingly, PBOC survey data indicates there was an improvement in 3Q22 underlying corporate credit demand qoq, except to the property developer sector (Fig 29).

Retain sector Neutral rating; top picks: CMB, PAB & BOC

We value the banks using a stress-test-adjusted GGM (Fig 34). Upside/downside risks: better-/worse-than-expected economy and an increase/decrease in policy risks.





Company	Ticker	Rating	Mkt cap	Price	Target	Upside/	P/B\	/ (x)	P/E	(x)	P/PPC)P (x)	Dividen	d yield	ROE	(%)
			(US\$ bn)	(Lcy)	price (Lcy)	Downside	FY22F	FY23F	FY22F	FY23F	FY22F	FY23F	FY22F	FY23F	FY22F	FY23F
ICBC	1398 HK	Add	204.6	3.61	5.90	63%	0.34	0.31	3.0	2.7	1.7	1.5	10.4	11.3	12.0	12.1
CCB	0939 HK	Add	144.6	4.41	8.00	81%	0.34	0.31	2.9	2.6	1.6	1.4	10.6	11.5	12.3	12.3
BOC	3988 HK	Add	117.3	2.55	4.20	65%	0.31	0.28	2.8	2.6	1.6	1.4	11.1	12.2	11.2	11.3
ABC	1288 HK	Add	136.9	2.31	4.40	90%	0.31	0.28	2.8	2.5	1.4	1.3	11.5	12.6	11.5	11.6
BOCOM	3328 HK	Hold	43.4	4.05	5.30	31%	0.30	0.27	2.8	2.6	1.4	1.3	11.3	12.4	10.9	11.1
CMB	3968 HK	Add	109.7	30.10	84.10	179%	0.77	0.68	4.7	4.0	2.8	2.5	7.0	8.3	17.4	18.2
CITIC	0998 HK	Add	27.6	3.10	4.80	55%	0.23	0.21	2.2	1.9	0.8	0.8	12.7	14.4	10.9	11.4
MSB	1988 HK	Hold	19.3	2.27	2.50	10%	0.16	0.16	2.5	2.1	0.8	0.7	12.1	14.0	6.8	7.5
CQRCB	3618 HK	Add	5.3	2.55	4.10	61%	0.22	0.21	2.2	1.9	1.0	0.9	13.7	15.6	10.6	11.1
H-share weighted																
average							0.38	0.34	3.1	2.8	1.7	1.5	10.5	11.6	12.4	12.6
ICBC - A	601398 CH	Add	204.6	4.35	5.10	17%	0.49	0.45	4.2	3.9	2.4	2.2	7.3	7.9	12.0	12.1
CCB - A	601939 CH	Add	144.6	5.55	7.10	28%	0.51	0.47	4.3	4.0	2.4	2.2	7.1	7.7	12.3	12.3
BOC - A	601988 CH	Add	117.3	3.05	3.80	25%	0.43	0.40	4.0	3.7	2.2	2.1	7.8	8.6	11.2	11.3
ABC - A	601288 CH	Add	136.9	2.86	3.90	36%	0.45	0.41	4.1	3.7	2.0	1.9	7.8	8.5	11.5	11.6
BOCOM - A	601328 CH	Hold	43.4	4.61	4.80	4%	0.40	0.37	3.8	3.5	2.0	1.8	8.4	9.2	10.9	11.1
CMB - A	600036 CH	Add	109.7	29.89	71.50	139%	0.91	0.80	5.5	4.7	3.3	2.9	6.0	7.1	17.4	18.2
CITIC - A	601998 CH	Add	27.6	4.63	4.90	6%	0.41	0.38	3.9	3.5	1.5	1.4	7.2	8.1	10.9	11.4
MSB - A	600016 CH	Reduce	19.3	3.40	2.50	-29%	0.29	0.28	4.4	3.8	1.4	1.3	6.8	7.9	6.8	7.5
PAB - A	000001 CH	Add	31.0	11.34	22.70	100%	0.61	0.55	5.6	4.7	1.7	1.5	2.4	2.8	11.5	12.3
CQRCB - A	601077 CH	Add	5.3	3.62	4.50	24%	0.38	0.35	3.7	3.2	1.7	1.6	8.1	9.3	10.6	11.1
A-share weighted																
average							0.54	0.49	4.5	4.0	2.3	2.1	6.9	7.7	12.5	12.8
Combined sector																
weighted average							0.46	0.42	3.8	3.4	2.0	1.8	8.7	9.6	12.5	12.7
-																

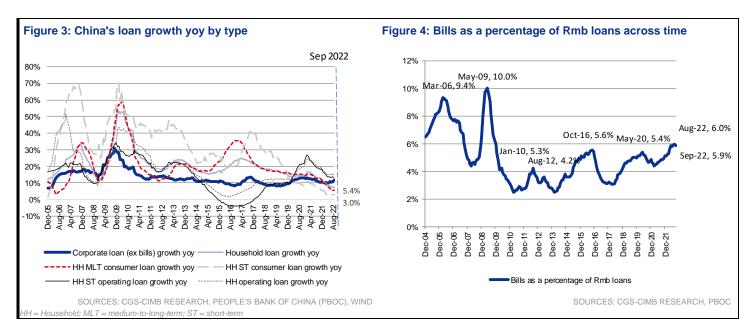
SOURCES: CGS-CIMB RESEARCH ESTIMATES, BLOOMBERG

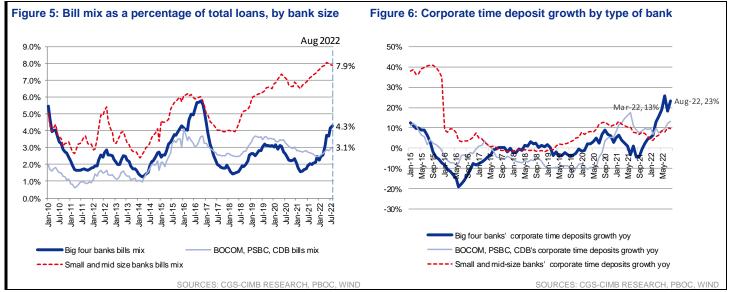
"ICBC: INDUSTRIAL AND COMMERCIAL BANK OF CHINA; CCB: CHINA CONSTRUCTION BANK; BOC: BANK OF CHINA; ABC: AGRICULTURAL BANK OF CHINA; BOCOM: BANK OF COMMUNICATIONS; CMB: CHINA MERCHANTS BANK; CITIC: CHINA CITIC BANK; MSB: CHINA MINSHENG BANK; CQRCB: CHONGQING RURAL COMMERCIAL BANK

DATA AS OF 13 OCT 2022



Easy to offer water; hard to make one drink

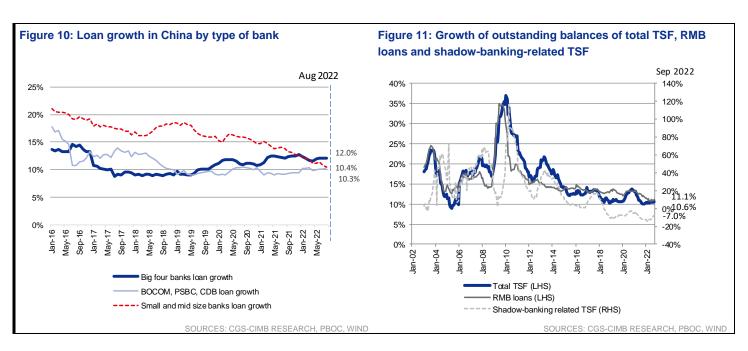


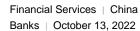




	Total domestic Co Rmb loans	rporate loan (ex bills)	Household loans	Household short-term loans	Household medium-to-long-term loans	Bills
Aug-21	12.1%	11.6%	13.7%	12.0%	14.4%	8.6%
Sep-21	11.9%	11.1%	13.2%	11.7%	13.8%	13.9%
Oct-21	11.9%	10.9%	13.1%	11.7%	13.7%	16.9%
Nov-21	11.7%	10.5%	12.9%	11.0%	13.7%	17.8%
Dec-21	11.5%	10.5%	12.5%	10.4%	13.4%	17.9%
Jan-22	11.5%	10.7%	11.6%	10.2%	12.1%	22.1%
Feb-22	11.3%	10.1%	10.8%	10.3%	11.0%	28.7%
Mar-22	11.4%	10.3%	10.1%	9.1%	10.4%	35.3%
Apr-22	10.8%	9.9%	8.9%	7.7%	9.2%	37.1%
May-22	10.9%	10.0%	8.3%	7.6%	8.5%	43.1%
Jun-22	11.2%	10.8%	8.1%	7.9%	8.2%	39.4%
Jul-22	10.9%	10.5%	7.7%	7.7%	7.7%	40.2%
Aug-22	10.8%	10.7%	7.4%	7.9%	7.3%	37.6%
Sep-22	11.2%	11.7%	7.2%	7.6%	7.0%	34.7%

Figure 8: Recent periods of acceleration in corporate loan Figure 9: Corporate loan growth in Sep 2022 is the highest in growth coinciding with an acceleration in corporate time deposit more than six years growth 18% 16% 35% 14% 12% 25% 10% Jun-12, 15.9% Jan-16, 13.9% 8% 15% 6% 10% 4% Jul-19 Oct-19 Oct-20 Corporate loan growth yoy (includes bils) —— Corporate time deposit growth yoy Corporate Ioan (include bills) growth yoy Corporate Ioan (ex bills) growth yoy SOURCES: CGS-CIMB RESEARCH, PBOC, WIND SOURCES: CGS-CIMB RESEARCH, PBOC, WIND







Jun-09, 4.34%

4.0%

Figure 12: Loan yields in China for mortgages and general corporate loans

8.5%
8.0%
7.5%
7.0%
6.5%
5.0%

Jun-22, 4.76%
Jun-22, 4.62%

Dec-16, 4.52%

Mortgage loan yield

SOURCES: CGS-CIMB RESEARCH, PEOPLE'S BANK OF CHINA (PBOC)

Jul-09
Peb-10
Sep-10
Sep-10
Jun-12
Jun-12
Jun-13
Jun-15
Dec-15
Jul-16
Sep-17
Se

General corporate loan yield

Figure 13: Mortgage rates for primary mortgages and secondary mortgages Sep-22 8.0% 7.5% 7.0% 6.5% 6.0% 5.5% Oct-21, 5.73% 5.0% 4.91% Dec-21, 5.64% Mar-22, 5.34% 4 5% Apr-22, 5.17% May-22, 4.91% Jun-22, 4.42% 4.15% 4.0% Jan-22 Jul-22, 4.35% Jan-14 Jan-15 Jan-16 Jan-17 Jan-18 Jan-19 Jan-20 Jan-21 Aug-22, 4.32%

Mortgage rate (secondary)

SOURCES: CGS-CIMB RESEARCH, RONG260, BEIKE RESEARCH INSTITUTE, BLOOMBERG

Mortgage rate (primary)

Figure	14: Pro	perty	develo	per mi	x of to	tal loai	าร		
	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	1H22
ICBC	4.8%	4.7%	4.9%	5.2%	5.5%	5.4%	5.1%	4.5%	4.2%
CCB	6.1%	5.0%	3.8%	4.0%	4.6%	4.4%	4.7%	4.5%	3.8%
ABC	7.3%	6.2%	5.3%	5.3%	5.2%	5.3%	5.3%	5.1%	4.5%
BOC	8.4%	8.3%	7.5%	8.4%	7.8%	8.0%	8.0%	7.7%	7.7%
восом	6.0%	6.1%	5.0%	4.2%	4.5%	5.0%	6.0%	6.4%	7.0%
CMB	7.2%	7.5%	7.0%	7.3%	8.0%	8.2%	8.3%	7.8%	7.4%
CITIC	8.2%	10.1%	10.2%	10.4%	8.9%	7.2%	7.1%	6.5%	6.5%
MSB	13.1%	11.9%	9.2%	9.1%	12.7%	13.7%	11.4%	8.9%	8.5%
PAB	9.6%	10.9%	9.9%	9.0%	8.8%	9.8%	10.2%	9.4%	9.9%
CQRCB	5.7%	6.6%	4.7%	3.2%	2.2%	1.8%	1.2%	0.8%	0.7%
Big four banks average	6.5%	5.9%	5.3%	5.6%	5.7%	5.7%	5.7%	5.4%	4.9%
Mid-size banks average	8.3%	8.6%	7.6%	7.4%	8.1%	8.1%	7.9%	7.3%	7.3%
Sector average	6.9%	6.5%	5.8%	6.0%	6.2%	6.2%	6.2%	5.8%	5.4%
			SC	URCES:	CGS-CIM	B RESEA	RCH, CON	//PANY RI	EPORTS

	FY15	FY16	FY17	FY18	FY19	FY20	FY21	1H22
CBC	6.2%	14.1%	15.2%	14.9%	6.8%	5.5%	-2.7%	-5.4%
CCB	-9.1%	-14.2%	16.4%	20.7%	4.6%	19.7%	6.2%	-10.5%
ABC	-6.7%	-6.9%	12.3%	8.0%	13.9%	13.2%	9.8%	-6.8%
3OC	6.4%	-1.2%	9.3%	11.6%	13.9%	9.1%	6.6%	7.0%
ВОСОМ	9.4%	-10.1%	-8.5%	15.9%	22.1%	31.6%	20.6%	29.2%
CMB	18.4%	6.8%	14.7%	21.3%	16.4%	6.1%	2.8%	-1.8%
CITIC	41.9%	15.1%	13.5%	-6.0%	-7.7%	-0.5%	-1.0%	-1.7%
/ISB	3.0%	-7.0%	12.9%	51.5%	22.8%	-7.8%	-17.9%	-13.8%
AB	34.3%	10.5%	4.2%	15.1%	29.9%	18.9%	6.2%	2.2%
QRCB	27.4%	-20.1%	-24.2%	-22.9%	-2.8%	-29.3%	-17.4%	-17.2%
ig four anks	-0.5%	-1.8%	12.9%	13.5%	9.9%	11.1%	4.8%	-3.0%
id-size anks	18.7%	2.5%	8.3%	18.5%	15.4%	6.8%	1.0%	2.7%
otal	4.8%	-0.5%	11.3%	14.9%	11.6%	9.6%	3.6%	-1.3%

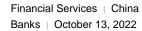




Figure 16: NPL ratios of loans to selected industries (FY21 vs. 1H22)

_		EVO				4110	•	
	Wholesale	FY2 Property	Manufac.	Personal	Wholesale	1H2 Property	Manufac.	Personal
	and retail	dev.		business loans	and retail	dev.		business
ICBC	8.3%	4.8%	3.7%	1.0%	5.4%	5.5%	3.4%	0.9%
CCB	2.0%	1.9%	4.2%	0.7%	1.8%	3.0%	3.5%	0.6%
вос	3.7%	3.4%	4.4%	0.6%	2.7%	4.0%	3.4%	0.6%
ABC	1.9%	5.1%	3.6%	n.a	1.8%	5.7%	2.7%	n.a
восом	4.8%	1.4%	3.9%	0.7%	4.8%	1.4%	3.5%	0.7%
CMB	2.5%	1.4%	2.1%	0.6%	1.8%	2.8%	1.6%	0.6%
CITIC	4.0%	3.6%	3.1%	n.a	3.2%	2.9%	2.4%	n.a
MSB	2.6%	2.7%	1.9%	2.1%	2.6%	3.0%	2.6%	1.8%
PAB	9.9%	0.0%	1.4%	0.7%	4.8%	0.0%	1.6%	1.5%
CQRCB	0.6%	0.2%	0.8%	n.a	0.4%	0.8%	0.6%	n.a
Big four banks average	4.2%	3.8%	4.0%	0.6%	3.0%	4.5%	3.3%	0.6%
Mid-size banks average	2.6%	2.1%	2.1%	1.3%	2.1%	2.5%	1.9%	1.1%
Sector average	3.9%	3.4%	3.6%	0.6%	2.9%	4.1%	3.0%	0.6%

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS

*Sector average data refers to the weighted average data of banks under our coverage; Property dev. = Property developers; Manufac. = Manufacturers

Figure 17: NPL ratio (prop	erty dev	eloper)							
%	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	1H22
ICBC	0.8	1.5	2.2	2.7	1.7	1.7	2.3	4.8	5.5
ССВ	1.1	1.2	2.5	2.2	1.7	0.9	1.3	1.9	3.0
ABC	1.0	1.8	2.5	1.1	1.4	1.5	1.8	3.4	4.0
BOC	0.5	0.9	0.9	1.4	0.9	0.5	4.7	5.1	5.7
ВОСОМ	n.a.	n.a.	n.a.	n.a.	0.5	0.3	1.4	1.3	1.9
СМВ	0.3	0.6	1.0	1.3	1.0	0.4	0.3	1.4	2.8
CITIC	0.1	0.1	0.1	0.3	0.4	1.2	3.4	3.6	2.9
MSB	0.2	0.1	0.3	0.2	0.3	0.3	0.7	2.7	3.0
CQRCB	0.0	0.1	0.1	-	0.7	8.6	-	-	-
PAB	-	-	0.1	0.8	1.6	1.2	0.2	0.2	0.8
Big four banks	0.8	1.3	1.9	1.8	1.4	1.1	2.7	3.9	4.7
Mid size banks	0.1	0.1	0.2	0.3	0.5	0.5	1.4	1.9	2.4
All banks under our coverage	0.6	1.0	1.4	1.4	1.2	1.0	2.2	3.2	3.9
			SC	URCES: (CGS-CIME	B RESEAF	RCH, CON	IPANY RE	PORTS

Figure 18: the China		rcent	age o	f loan	s cor	mprisi	ing m	ortga	ges f	or	Figure 19: coverage		age g	rowt	h rate	of t	he Cł	nina k	anks	unde	er ou	r
(%)	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	1H22	(%)	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	1H22
ICBC	17.3	18.8	21.1	24.8	27.7	29.8	30.8	30.8	30.8	28.9	ICBC	13	28	20	22	29	22	17	13	11	11	7
CCB	22.1	24.0	26.7	30.8	33.0	35.1	35.6	34.7	34.0	31.9	ССВ	16	23	20	23	30	17	14	11	10	10	6
BOC	19.8	20.0	22.4	26.4	28.1	29.7	30.6	31.2	30.8	28.9	BOC	11	12	12	21	29	16	14	14	11	9	6
ABC	17.9	19.1	21.6	26.3	29.2	30.7	31.2	30.7	31.9	28.4	ABC	18	23	20	24	33	22	17	14	12	12	8
BOCOM	14.0	15.4	16.2	18.8	19.6	20.8	21.4	22.1	22.7	21.6	BOCOM	14	26	15	4	27	16	12	13	14	15	10
CMB	12.2	13.1	17.7	22.3	23.4	23.6	24.7	25.3	24.7	23.4	CMB	4	-20	23	52	46	14	11	19	15	8	4
CITIC	11.4	10.6	10.6	15.1	15.8	17.8	19.4	20.5	20.0	19.6	CITIC	9	13	5	16	61	17	27	21	18	6	3
MSB	3.9	3.8	5.6	12.0	12.5	11.0	12.0	13.4	14.7	14.1	MSB	-14	-13	12	64	159	19	-4	25	23	16	7
PAB	7.7	5.4	3.8	5.8	9.0	9.1	8.6	9.0	9.1	8.8	PAB	-7	-8	-15	-17	85	79	19	6	24	17	9
CQRCB	22.5	19.0	16.4	14.5	14.8	15.8	16.7	18.0	17.3	16.1	CQRCB	14	32	-1	-4	-1	15	20	21	25	11	0
Big four	19.2	20.5	22.9	27.1	29.5	31.4	32.1	31.9	31.9	29.5	Big-four	14	21	18	22	30	19	15	13	11	11	7
Mid-size	10.9	11.1	12.4	16.3	17.3	17.8	18.6	19.4	19.5	18.8	Mid-size	6	4	13	21	51	18	13	17	17	11	7
Total	17.4	18.3	20.5	24.4	26.4	27.9	28.6	28.7	28.7	26.8	Total	13	19	17	22	33	19	15	13	12	11	7
			SOU	RCES: (CGS-CIN	/IB RES	EARCH,	COMP	ANY RE	PORTS		·			SOURC	E: CG	S-CIMB	RESEA	ARCH, C	COMPA	NY REF	PORT





Figure 20: Mortgage NPL ratios of the China banks Figure 21: Mix of credit card loans in total loans (%) (%) 1H17 2H17 1H18 2H18 1H19 2H19 1H20 2H20 1H21 2H21 1H22 **ICBC** n.a. n.a. n.a. 0.23 0.29 0.28 0.24 0.24 FY11 FY12 FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20 FY21 1H22 (%) CCB 0.28 0.24 0.25 0.24 0.27 0.24 0.25 0.19 0.20 0.20 0.25 ICBC 2.8 3.1 3.3 3.5 3.5 3.8 4.1 4.0 3.7 3.3 2.9 BOC 0.36 0.35 0.33 0.32 0.31 0.29 0.34 0.32 0.31 0.27 0.36 CCB 1.6 2.4 3.2 3.5 3.8 3.8 4.4 4.8 5.0 5.0 4.8 4.5 ABC 0.36 0.36 0.29 0.31 0.26 0.30 0.32 0.38 0.32 0.36 0.36 BOC 1.5 2.3 2.9 3.2 2.9 3.0 3.4 3.6 3.7 3.5 3.2 3.0 **BOCOM** 0.00 n.a. n.a. n.a. n.a. 0.36 0.40 0.37 0.34 0.34 0.37 ABC 1.8 2.3 2.7 2.8 2.5 2.5 3.0 3.2 3.6 3.6 3.7 3.5 CMB 0.33 0.28 0.34 0.27 0.25 0.25 0.25 0.29 0.25 0.28 0.27 **BOCOM** 4.0 5.0 6.5 7.3 7.5 9.0 10.4 8.8 7.5 6.8 CITIC n.a. CMB 4.5 5.6 7.1 8.7 11.1 12.5 13.8 14.6 14.9 14.8 15.1 14.4 MSB 0.21 0.22 0.22 0.26 0.33 n.a. n.a. n.a. n.a. n.a. n.a. CITIC 2.2 3.3 4.5 5.8 7.0 8.3 10.4 12.8 12.9 10.9 10.9 10.3 PAB 0.09 0.08 0.09 0.09 0.15 0.30 0.42 0.31 0.31 0.34 0.30 4.8 MSB 8.3 8.4 10.5 12.9 12.2 12.0 11.7 7.2 8.1 **CQRCB** 0.73 0.61 0.43 0.40 0.33 0.32 0.31 0.28 0.51 6.9 10.2 10.0 12.1 12.3 17.8 23.7 23.3 19.8 20.3 18.5 PAB 4.0 0.28 0.28 Bia four 0.33 0.31 0.29 0.26 0.30 0.29 0.26 0.26 0.32 **CQRCB** 0.0 0.7 1.0 1.6 2.4 1.7 1.2 1.0 1.0 1.0 1.7 banks Big four 1.8 2.5 3.0 3.2 3.2 3.2 3.7 4.0 4.1 3.9 3.8 3.5 Mid-size 0.31 0.29 0.24 0.31 0.23 0.31 0.28 0.33 0.30 0.31 0.26 4.6 9.5 11.6 13.8 13.4 12.3 12.3 11.5 banks Mid-size 3.3 6.2 7.5 8.7 Sector Total 2.2 3.0 3.7 4.2 4.5 4.7 5.6 6.4 6.4 6.0 weighted average SOURCE: CGS-CIMB RESEARCH, COMPANY REPORTS SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS

Figure :					grow	th rat	e of t	he Ch	nina b	anks		Figure 2 coverag		dit card	d NPL i
													FY14	FY15	FY16
(%)	FY12	FY13		FY15	FY16		FY18	FY19	FY20	FY21	1H22	ICBC	n.a.	n.a.	n.a.
ICBC	38	25	19	15	8	18	17	8	1	2	-6	ССВ	0.83%	1.06%	0.97%
CCB	79	50	22	18	13	27	15	14	11	9	9	ВОС	2.06%	3.37%	3.45%
ВОС	65	38	21	0	12	24	14	12	5	2	1	ABC	1.73%	2.73%	2.88%
ABC	49	30	15	0	9	31	20	25	14	16	6	ВОСОМ	1.68%	1.82%	1.95%
BOCOM	61	38	36	21	13	30	27	-7	-1	6	4	CMB	0.94%	1.37%	1.40%
CMB	45	46	42	42	31	20	17	17	11	13	7	CITIC	n.a.	n.a.	1.48%
CITIC	69	60	46	39	35	40	33	16	-6	9	2	MSB	n.a.	n.a.	n.a.
MSB	72	71	30	16	21	42	34	13	4	2	2	PAB	2.77%		1.43%
PAB	101	75	19	44	23	68	56	14	-2	17	8	CQRCB	n.a.	n.a.	
CQRCB	n.a.	72	85	64	-20	-17	-6	14	11	83	65	Big four		2.13%	
Big four	54	35	19	10	11	24	16	14	7	7	3	banks		2	2
Mid-size	63	53	35	32	24	36	31	10	2	10	5	Mid-size	1.29%	1.42%	1.57%
Total	57	41	26	19	17	30	24	12	4	8	4	banks			
												Total	1.38%	1.77%	1.85%

SOURCE: CGS-CIMB RESEARCH, COMPANY REPORT

	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	1H22
ICBC	n.a.	n.a.	n.a.	n.a.	n.a.	2.21%	1.89%	1.90%	2.24%
CCB	0.83%	1.06%	0.97%	0.89%	0.97%	1.03%	1.40%	1.33%	1.44%
BOC	2.06%	3.37%	3.45%	2.54%	2.34%	2.22%	2.50%	2.05%	1.92%
ABC	1.73%	2.73%	2.88%	1.99%	1.66%	1.57%	1.55%	0.99%	1.24%
BOCOM	1.68%	1.82%	1.95%	1.84%	1.52%	2.38%	2.27%	2.20%	2.66%
CMB	0.94%	1.37%	1.40%	1.11%	1.11%	1.35%	1.66%	1.65%	1.67%
CITIC	n.a.	n.a.	1.48%	1.24%	1.85%	1.74%	2.38%	1.83%	1.92%
MSB	n.a.	n.a.	n.a.	n.a.	2.15%	2.48%	3.28%	2.95%	2.95%
PAB	2.77%	2.50%	1.43%	1.18%	1.32%	1.66%	2.16%	2.11%	2.15%
CQRCB	n.a.	n.a.	3.63%	2.75%	n.a.	n.a.	2.16%	2.07%	1.98%
Big four banks	1.45%	2.13%	2.15%	1.63%	1.53%	1.70%	1.77%	1.52%	1.67%
Mid-size banks	1.29%	1.42%	1.57%	1.34%	1.43%	1.86%	2.28%	2.08%	2.18%
Total	1.38%	1.77%	1.85%	1.48%	1.47%	1.78%	2.03%	1.81%	1.94%
			SOL	JRCES: C	GS-CIMB	RESEAR	CH, COM	PANY RE	PORTS

ratio of the listed banks under our

Figure 24: Property developer	loans of	China's	big six banks	Figure 25: Mortgages of China	a's big six b	anks	
Rmb bn	FY21	1H22	1H22 growth hoh	Rmb bn	FY21	1H22	1H22 growth hoh
ICBC	932	942	1%	ICBC	6,033	6,449	7%
CCB	838	763	-9%	CCB	6,106	6,479	6%
ABC	876	843	-4%	ABC	4,932	5,344	8%
BOC	687	735	7%	BOC	4,316	4,352	1%
ВОСОМ	420	494	18%	ВОСОМ	1,387	1,528	10%
PSBC	139	178	28%	PSBC	2,169	2,229	3%
Total	3,892	3,954	2%	Total	24,945	26,382	6%
System property developer loans	12,010	12 490	4%	System mortgages	38,300	38,900	2%
Big six banks as a ratio of system property developer loans	32%	32%	170	Big six banks as a ratio of system mortgages	65%	68%	
	ES: CGS-CIM	B RESEAR	CH, COMPANY REPORTS	SOUR	CES: CGS-CIMB I	RESEARCH,	COMPANY REPORTS
Note that the figure for BOC is for the mainland	d China busine	ss only		Note that the figure for BOC is for the mainland	d China business	only	

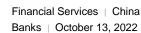




Figure 26: Property developer loans and mortgages of China's big six banks in mainland China

Rmb bn	FY21	1H22	1H22 growth hoh	Rmb100bn as a percentage of combined 1H22 mortgage & property developer loans
ICBC	6,966	7,391	6%	1.4%
CCB	6,944	7,242	4%	1.4%
ABC	5,809	6,187	7%	1.6%
BOC	5,004	5,086	2%	2.0%
BOCOM	1,807	2,022	12%	4.9%
PSBC	2,308	2,407	4%	4.2%
Total	28,837	30,336	5%	0.3%
System mortgages and property developer loans	50,310	51,390	2%	
Big six banks as a ratio of system mortgages & property developer loans	57%	59%		

Figure 27: Impact that a Rmb600bn credit quota requirement has on system credit for property developers and mortgages

(Rmb bn)	3Q22
Property developer loans (system)*	12,490
Mortgages (system)*	39,265
Property developer bonds (onshore) (system)	1,790
Total (system)	53,545
Ratio that Rmb600bn is of 3Q22 system credit to property developers &	1.1%

mortgages

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS

Note that the figure for BOC is for the mainland China business only

SOURCES: CGS-CIMB RESEARCH ESTIMATES, COMPANY REPORTS, WIND

Figure 28: Underlying loan demand had fallen significantly in 2Q22, with a slight bounce qoq in 3Q22

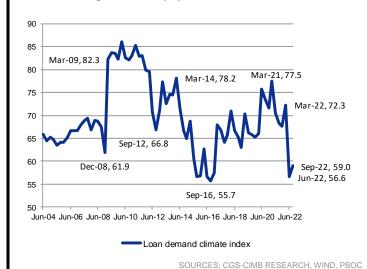


Figure 29: Loan demand climate index (LDCI) by industry across time

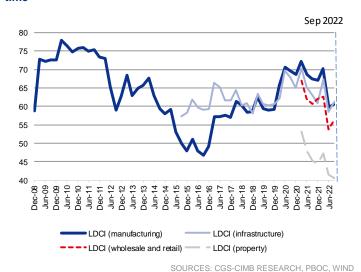


Figure 30: Trends in PBOC's loan demand climate index (LDCI) by industry since Mar 2021 (rebased to a base of 100 as of Mar 2021)

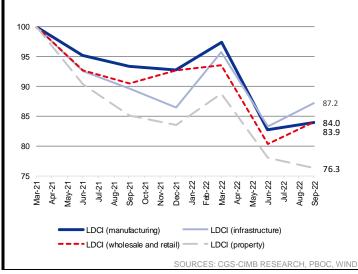
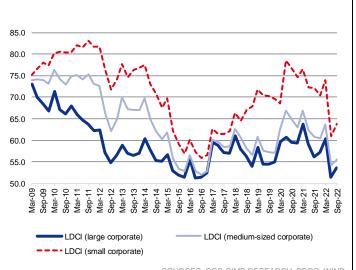
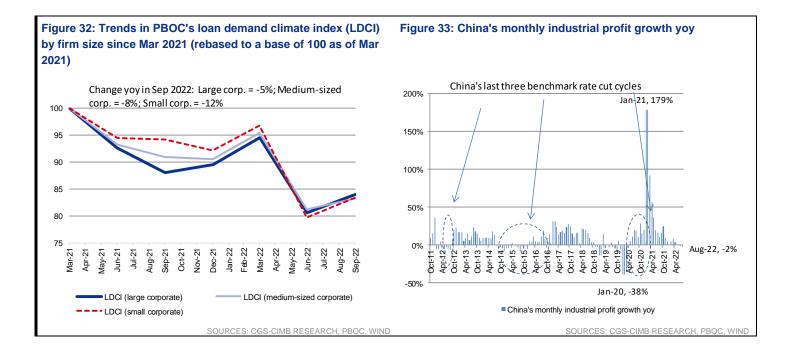


Figure 31: Loan demand climate indices are at or near a post-2008 record low



^{**} we have estimated 3Q22 system data for property developer loans and mortgages as 3Q22 data has not yet been disclosed





Valuation and risks

We value the H-share China banks using a stress-test-adjusted GGM. For A-share banks, we value them using a weighted average valuation approach, which takes into account a fundamentally derived, stress-test-adjusted GGM (50%) and their historical average A-H share valuation gap since Jan 11 (50%). We list our key valuation assumptions in Fig 34.

Company	Ticker	TP (HK\$) Rating	Valuation methodology	Risks
ICBC	1398 HK	5.90 Add	Stress-test-adjusted GGM , assuming COE of 10.0% and a 'g' of 3%, which implies a target P/BV of 0.56x and a sustainable ROE of 6.9%	Lower-than-expected change in NIM, worse-than-expected asset quality
ССВ	939 HK	8.00 Add	Stress-test-adjusted GGM, assuming COE of 10.0% and a 'g' of 3%, which implies a target P/BV of 0.62x and a sustainable ROE of 7.3%	Lower-than-expected change in NIM, worse-than-expected asset quality
BOC	3988 HK	4.20 Add	Stress-test-adjusted GGM, assuming COE of 10.4% and a 'g' of 3%, which implies a target P/BV of 0.50x and a sustainable ROE of 6.7%	Slower-than-expected US rate rises; Risks with One Belt One Road
ABC	1288 HK	4.40 Add	Stress-test-adjusted GGM, assuming COE of 11.4% and a 'g' of 3%, which implies a target P/BV of 0.58x and a sustainable ROE of 7.8%	Worse-than-expected asset quality, especially in the county areas; Downward NIM pressure
ВОСОМ	3328 HK	5.30 Add	Stress-test-adjusted GGM, assuming COE of 11.3% and a 'g' of 3%, which implies a target P/BV of 0.39x and a sustainable ROE of 6.2%	Better/ worse-than-expected progress with SOE reform, better/ worse-than-expected asset quality
CMB	3968 HK	84.10 Add	Stress-test-adjusted GGM, assuming COE of 9.4% and a 'g' of 3%, which implies a target P/BV of 2.15x and a sustainable ROE of 16.8%	Worse-than-expected change in NIM, Worse-than-expected asset quality
CITIC	998 HK	4.80 Add	Stress-test-adjusted GGM, assuming COE of 15.0% and a 'g' of 3%, which implies a target P/BV of 0.40x and a sustainable ROE of 7.8%	Better/worse-than-expected change in NIM, better/worse-than-expected asset quality
MSB	1988 HK	2.60 Hold	Stress-test-adjusted GGM, assuming COE of 14.5% and a 'g' of 3%, which implies a target P/BV of 0.20x and a sustainable ROE of 5.3%	Worse-than-expected asset quality; Unexpected change in strategy under new management and major shareholder
CQRCB	3618 HK	4.10 Add	Stress-test-adjusted GGM, assuming COE of 14.6% and a 'g' of 3%, which implies a target P/BV of 0.40x and a sustainable ROE of 7.6%	Lower-than-expected change in NIM, Worse-than- expected slowdown of Chongqing's economic growth leading to worse asset quality
PAB	000001 CH	Rmb22.70 Add	Stress-test-adjusted GGM, assuming COE of 9.8% and a 'g' of 3%, which implies a target P/BV of 1.23x and a sustainable ROE of 11.4%	Worse-than-expected change in NIM, Worse-than-expected asset quality

Sector downside risks include a worse-than-expected economic slowdown in China. This could result in higher-than-expected asset quality pressure, as well as greater-than-expected loan prime rate (LPR) cuts, which could also depress net interest margins. We discussed the impact of a slower China economy in detail in *Levers at work*, dated 19 Mar 2020, where we argued that provisioning coverage ratios and non-performing loan (NPL) recognition ratios represented potential levers that can cushion a slowdown in net profit growth.



Another downside risk is that the larger banks may face greater-than-expected policy risks with respect to lending in the event of a significant economic slowdown. Such policy-directed lending could result in asset quality problems for these banks further down the road, in our view.

A sector upside risk is a substantial improvement in the Covid-19 situation, which could then lead to improved consumer confidence, a stronger economy and, consequently, reduced asset quality pressures.

ESG in a nutshell



We view China banks as having medium ESG risk. The Refinitiv combined ESG scores in 2020 of the China banks under our coverage ranged from B to C. We see relative strength in Social scores being offset by weaker Governance scores (which we think is in part due to the government being the majority shareholder of most of the China banks under our coverage) and somewhat neutral Environmental scores. We view the China banks as good corporate citizens with a strong sense of social responsibility, and an important provider of inclusive finance. Given President Xi's announcement in Apr 2021 that China's coal consumption will decline starting no later than 2026 and given China's pledge to hit peak emissions by 2030 and achieve carbon neutrality by 2060, the China banks have been actively developing and rolling out green finance solutions. These can be positive on the ESG scores of China banks going forward. Having said that, the road to more environmentally friendly lending could be rocky, given that policymakers do at times direct banks to lend more to certain sectors. For example, the China banks were told by policymakers in early-Oct 2021 to ramp up funding to coal and energy companies to ease China's power shortages.

Keep your eye on

The pace at which green finance solutions are rolled out by the China banks, as well as the extent to which China banks ramped up lending to coal and energy companies in late-2021 to help ease China's power shortages. Note that the central bank, the People's Bank of China (PBOC), said in early-Jun 2021 that it would implement mandatory disclosure requirements on climate-related impact for the banks and had issued a 'Banking Sector Financial Institution Green Finance Assessment Plan (银行业金融机构绿色金融评价方案), with both qualitative and quantitative metrics used to assess the China banks' green finance initiatives.

Implications

More lending to coal and energy companies in the near term could be negative for ESG scores via an arguably worse Environmental score. However, this could be temporary, and we do expect loan growth to these companies to slow once China's power shortages ease.

ESG highlights

Our top ESG pick for the China banks is CCB. Refinitiv assigned a combined ESG score of B to CCB in 2020, which is the highest combined ESG in 2020 of the China banks under our coverage.

Implications

We do think that investors have historically focused very heavily on concerns over governance of the China banks (given their largely state-owned nature), which could see conflicts with the interests of minority shareholders. We also think that investors may not have adequately factored in these banks' shift to offer more green finance solutions to help China achieve its 2030 and 2060 carbon goals. This should lead to improved ESG scores across time and better valuations.

Trends

One of the key ESG focus areas for banks is to increase green financing, especially since policymakers have been more vocal in 2021 about their environmental goals and the explicit timelines (2030 and 2060) that have been announced.

Implications

The banks have been increasing their disclosures on how they are complying with national objectives to increase green financing.

SOURCES: CGS-CIMB RESEARCH, REFINITIV



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

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.

as solicit such investment, advisory or other services from any entity mentioned in this report.

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 September 30, 2022 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) Agricultural Bank of China, China Construction Bank, ICBC
- (ii) Analyst Disclosure: As of October 13, 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.

None of the analyst(s) or the associates serve as an officer of the listed corporation mentioned in this report.

CIMB does not have an officer serving in any of the listed corporation mentioned in this report

CIMB does not receive any compensation or other benefits from any of the listed corporation mentioned, relating to the production of research reports.

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 in turn is a 50:50 joint venture company of CGIFHL and CIMBG. The details of the group of companies of CGS-CIMB can be found at www.cgs-cimb.com, 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 report after the date of this report. CGS-CIMB Malaysia may act or acts as a market maker in the capital market products of the following companies: (Malaysia Market Maker Company List - Click here)

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 2001. Accordingly, it is exempted from the requirement to hold a financial adviser's licence under the Financial Advisers Act, 2001 ("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, 10 Marina Boulevard, Marina Bay Financial Centre Tower 2, #09-01, Singapore 018983 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 34 of the FAA (obligation to disclose product information);
- (b) Section 36 (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 45 (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 36 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 36 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.

CGS-CIMB Singapore does not make a market on other specified products 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.

Corporate Governance Report (CGR): (Thai CGR and Anti-Corruption of Thai Listed Companies - Click here)

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 30 June 2022			
643 companies under coverage for quarter ended on 30 June 2022			
	Rating Distribution (%)	Investment Banking clients (%)	
Add	68.4%	0.8%	
Hold	24.6%	0.0%	
Reduce	7.0%	0.2%	



Recommendation Framework

Stock Ratings Definition:

The stock's total return is expected to exceed 10% over the next 12 months. Add

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.

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.

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.

An Underweight rating means investors should be positioned with a below-market weight in this country relative to benchmark. Underweight

#03c