China / Hong Kong Industry Focus

China Banking Sector

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DBS Group Research . Equity

14 Oct 2022

How would property sector impact China banks?

- Property sector performance is the main investor concern vis-à-vis banking sector YTD
- Expect loan growth and asset quality to remain weak in short term
- Expect no large changes in banks' property exposure strategy at the time being, as the NPL impact is controllable
- Negatives are largely priced in while we expect short-term volatility, long-term top pick remains PSBC (1658 HK)

Property exposure is the main concern for China banks YTD.

The China banking sector shows a high correlation of 0.82 with property sector performance YTD. Looking forward, our expectations are 1) a low to mid-single-digit y-o-y growth in property-related loans, while mortgage growth may see some recovery with lower pricing; 2) the mortgage NPL ratio in 2H22 is likely to be in line with the trend in 1H22, as indicated by the leading indicators (e.g. delinquency ratio of MBS' underlying assets); and 3) a significant drop in the mortgage rate after a 35bps decline in the five-year LPR.

Expect stable strategy to tackle property. From the banks' perspective, we don't expect a sharp change in their property exposure, though they are becoming more selective in issuing developer loans. Our key findings are that 1) property loans will remain an important part of the banks' loan book in the long run; 2) the NPL ratio impact, if SOE banks have to follow government guidance to support more property developers, is controllable at 0-4bps; and 3) mortgage remains a preferred product to banks. A 50bps mortgage rate cut may result in a 10bps NIM decline on average, but it could still be a good profit contributor if growth could recover to a high single-digit level, even if the higher NPL ratio is considered.

Impact priced in, but short-term volatility would remain. We estimate the implied ROE from the current valuation of 0.35x FY23F P/B to be c.5.3%, which is around the US banks' post-crisis ROE level during 2009-2011. We believe the negatives are largely in the price, though more upsides could materialise only after clearer signals of recovery of the China property sector and economy. Our top pick remains PSBC (1658 HK) for the mid-long term.

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Recommendation & valuation

Company	Currency	Price Local\$	Target Price Local\$	Recom	Mkt Cap US\$bn	PE 23F X
<u>ABC</u> (1288 HK)	HKD	2.31	3.10	HOLD	136	3.0
<u>ABC-A</u> (601288 CH)	CNY	2.86	3.20	HOLD	136	4.1
BOC (3988 HK)	HKD	2.55	3.85	BUY	117	3.1
BOC-A (601988 CH)	CNY	3.05	3.40	HOLD	117	4.0
BOCOM (3328 HK)	HKD	4.05	5.70	BUY	43	3.0
BOCOM-A (601328 CH)	CNY	4.61	5.20	BUY	43	3.8
<u>CCB</u> (939 HK)	HKD	4.41	8.00	BUY	142	3.0
<u>CCB-A</u> (601939 CH)	CNY	5.50	7.00	BUY	142	4.1
<u>CMB</u> (3968 HK)	HKD	30.10	63.70	BUY	104	4.5
<u>CMB-A</u> (600036 CH)	CNY	29.89	51.80	BUY	104	4.9
ICBC (1398 HK)	HKD	3.61	6.10	BUY	203	3.1
ICBC-A (601398 CH)	CNY	4.35	5.40	BUY	203	4.1
CITIC (998 HK)	HKD	3.10	3.60	HOLD	28	2.3
<u>CITIC-A</u> (601998 CH)	CNY	4.63	4.40	HOLD	28	3.8
<u>PAB</u> (000001 CH)	CNY	11.34	15.90	BUY	31	4.6
<u>CEB</u> (6818 HK)	HKD	2.10	2.40	HOLD	22	2.4
<u>CEB-A</u> (601818 CH)	CNY	2.81	2.40	HOLD	22	3.6
PSBC (1658 HK)	HKD	4.04	7.40	BUY	52	3.7
PSBC-A (601658 CH)	CNY	4.17	6.80	BUY	52	4.2

Based on closing prices as at 13 Oct 22

Source: Thomson Reuters, DBS Bank (Hong Kong) Limited ("DBS HK")





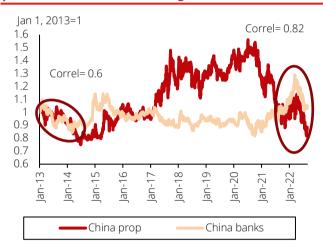




Property sector remains the key concern YTD

Property sector remains key area to watch for bank investors. Through empirical study, we found that the China property and China banking sector performances are highly correlated during a downturn cycle of China property (Fig 1). The correlation reached c.0.82 YTD. So, it is understandable that investors are more concerned about banks' asset quality during economic downturns and watch more for revenue growth during economic upward cycles.

Fig 1: China banks and China property share performance vs. HSI shows high correlation YTD



Source: Bloomberg Finance L.P., DBS HK

Banks' exposure to the China property sector includes loans (developer loans and mortgage) as well as off-balance sheet items (wealth management products and property trust). The market is not as optimistic as it was before about the property market recovery after the mortgage boycott in July. Thus, the negative impacts on banks when the property sector is in trouble include 1) lower loan growth; 2) worsening asset quality from property-related loans; and 3) lower wealth management exposure to the sector.

Property loan growth slowing down, especially mortgages.

By the end of 1H22, the outstanding balance of property-related loans was c.Rmb52.2tn, or 25.7% of total loans in China, compared with 27.5% of total loans by the end of 2021 (Fig 2). Mortgages showed a more significant decline in y-o-y growth and as a percentage of total loans than developer loans.

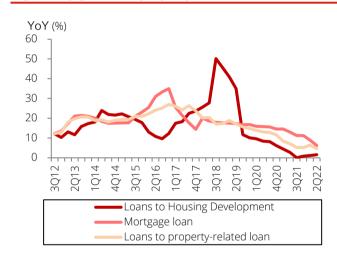
As property loan-related growth is correlated with residential property sales (Fig 4) and the DBS house view expects flattish y-o-y sales in 2023, we expect the overall property loan growth to remain at a low single digit in 2023.

Fig 2: Lower proportion of property-related loans

	Outstanding balance (Rmb tr)		As of	total	yoy growth (%)	
	2021	2Q22	2021	2Q22	2021	2Q22
Total property loan	52.17	53.11	27.5	25.7	5.2	4.6
Property developer loan	12.01	12.49	6.3	6.1	0.8	1.5
Mortgage	38.32	38.86	20.2	18.8	11.3	6.2

Source: PBOC, DBS HK

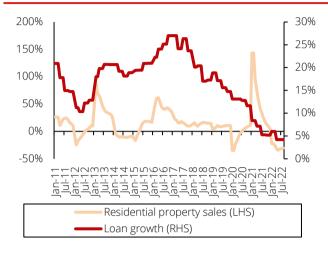
Fig 3: Y-o-y growth in property-related loans



Source: PBOC, DBS HK



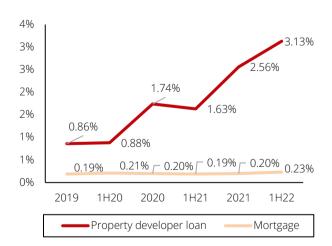
Fig 4: Residential property sales vs. property loan growth



Source: PBOC,CEIC, DBS HK

Credit risk remains the concern. The average NPL ratio of the banks under our coverage in the China property sector showed an increasing trend in 1H22 while the asset quality in other industries is largely stable or improving (Fig 5). The average NPL ratio of developer loans increased from 2.56% in FY21 to 3.13% in 1H22. The NPL ratio of mortgages, which has been stable in recent years, even during the COVID-19 outbreaks in 1H22, reached a new high of 0.23% in 1H22.

Fig 5: Deteriorating asset quality in China property



Source: Companies, DBS HK

There might be more developers facing liquidity problems. Some of the risky names which may be faced with trouble in bond repayments in the near term include CIFI, China SCE, Sino Ocean, and Agile, according to the DBS property team.

Most China banks have less than 0.5% of corporate loan exposure to these names, while CITIC Bank has a slightly higher exposure of 0.6% to those names (Fig 6). Looking ahead, we expect the credit risk in the property sector to remain a concern for banks until the liquidity problem of developers is really solved.

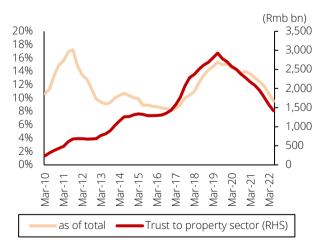
Fig 6: Banks' exposure to risky developers

(Rmb bn)	CIFI (FY21)	Sino Ocean (1H21)	Agile (3Q20)	Total
ABC	5.3		5.3	10.6
BOC	1.8		2.3	4.2
BOCOM	5.3	1.1		6.4
CCB	7.4		2.6	10.0
CEB	1.0	1.4	1.3	3.7
Industrial Bank	4.9			4.9
CITIC	6.1	6.4	1.9	14.4
CMB	6.1		1.9	8.1
China Minsheng	3.7		0.2	4.0
PSBC	0.5			0.5
ICBC	2.1		2.0	4.1
PAB	1.2		0.2	1.4

Source: Companies, DBS HK

Declines in off-balance sheet exposure. By the end of 1H22, property trusts declined by 51.7% from the peak in 1H19 to Rmb1.4tn (Fig 7). Trusts as a percentage of the total also dropped from the peak of 15.4% to 9.5%.

Fig 7: Property trust as of total trust



Source: CEIC, DBS HK

Banks' off-balance sheet exposure usually includes wealth management funds, entrusted loans, agency distribution of trust schemes under active management by cooperative

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institutions, debt financing with the bank as the lead underwriter, etc. Banks do not bear credit risks on these products, but their fee income would be negatively impacted if the volume declines significantly. Not all banks disclose off-balance sheet exposure to the China property sector, and we use CMB (3968 HK) and PAB (000001 CH) here as examples (Fig 8).

By the end of 1H22, both banks' off-balance sheet exposure to the China property sector dropped by c.23%-24% compared to FY21's level. Off-balance sheet exposure in terms of property-related corporate loans was c.80% for CMB and c.18% for PAB. Considering that CMB has the leading position and a much higher-than-peer portion of revenue coming from wealth management fees, PAB's number would be closer to the average. The total off-balance sheet exposure of all banks to the China property sector is estimated to be Rmb1.9-3.1tn by the end of 1H22 if we assume it makes up 15%-25% of property-related corporate loans.

Fig 8: Banks' off-balance sheet exposure to property

	СМЕ	3	PAB		
	1H22 number (Rmb bn)	h-o-h growth (%)	1H22 number (Rmb bn)	h-o-h growth (%)	
Off balance sheet items	316.4	(23.22)	52.6	(23.7)	
Credit risk bearing items	493.7	(3.48)	298.0	0.6	
- of which Property corporate loan	397.2	(1.11)	298.0	0.6	
Off-balance sheet items/property loans	79.6%		17.6%		

Source: CEIC, DBS HK

Most banks are below the property exposure benchmark

now. Not surprisingly, all banks saw lower exposure to property-related loans in 1H22 compared with FY21, especially with a lower growth in mortgage. All banks except for CMB are within the limit for mortgage exposure now. Among all the SOE banks, PSBC (1658 HK) and CCB (939 HK) have the highest exposure to mortgages and CMB has the highest exposure among all joint-stock banks.

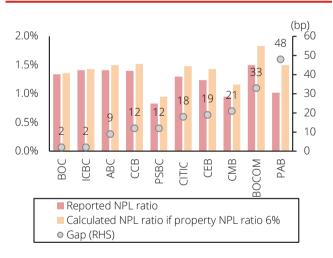
In terms of asset quality, BOC (3988 HK) and ICBC (1398 HK) have the highest NPL ratios for property-related corporate

loans of 5.5% or more in 1H22, while CMB, CEB (6818 HK), and CCB saw the largest increase, of more than 100bps, in their NPL ratios.

Hidden NPL? HK and international banks also have exposure to the China property sector (Fig 11). The exposure is limited to less than 7% of their total loans, based on data of the three HK-listed banks that we analysed. We saw a declining trend in the loan outstanding balance in this sector in 1H22 while the NPL ratio has been increasing significantly. They reported 5-6.5% of NPL ratio in China property sector in 1H22, which was in general higher than their China peers who reported 3.1% NPL ratio on average. One of the possible explanations is that compared with HK/ foreign banks, China banks have better understanding of China property market and have more resources to choose qualified developers and projects.

But what if this is due to different NPL reporting standard? We have recalculated China banks' NPL ratio using 6% of NPL ratio in China property sector (Fig 9).

Fig 9: NPL impact if 6% NPL ratio in property sector



Source: CEIC, DBS HK

In this case, the NPL impact would be the lowest for BOC and ICBC, which have already reported >5.5% NPL ratio. Big Four have lower impact than the rest. PSBC also has lower impact due to its relatively lower exposure to property corporate loan, while BOCOM and PAB would have the highest impact of 33/48bps of NPL ratio increment as their current reporting NPL ratio in property sector was significantly lower than the sector average.



Fig 10: China banks' exposure to China property sector

Ticker	1288	3988	3328	998	939	6818	3968	1398	1658	000001
Bank	ABC	вос	BoComm	CITIC	CCB	CEB	СМВ	ICBC	PSBC	PAB
Real estate loan as a % of total loan	4.5	4.3	7.2	5.8	4.1	5.3	6.7	3.2	2.2	9.2
h-o-h change %	(0.4)	(0.0)	0.8	(0.0)	0.2	(0.6)	(0.5)	(0.2)	0.0	(0.2)
Mortgage loan as a % of total loan	28.5	25.7	21.6	19.6	31.9	16.7	23.4	28.9	31.9	8.7
h-o-h change %	(2.0)	(1.9)	(1.1)	(0.4)	(2.2)	(0.7)	(1.2)	(2.1)	(1.7)	(0.3)
Mortgage loan ratio cap	32.5	32.5	32.5	20.0	32.5	20.0	20.0	32.5	32.5	20.0
Property-related loan as a % of total loan	33.0	30.0	28.7	25.4	35.9	22.0	30.1	32.0	34.1	18.0
h-o-h change %	(4.1)	(3.6)	(2.7)	(2.6)	(4.4)	(5.3)	(5.2)	(3.8)	(3.6)	(2.1)
Property-related loan cap	40.0	40.0	40.0	27.5	40.0	27.5	27.5	40.0	40.0	27.5
Real estate loan NPL	4.0	5.7	1.3	2.9	3.0	2.6	2.8	5.5	1.0	0.8
h-o-h change (bp)	58.0	62.0	6.0	(74.0)	113.0	133.0	141.0	68.0	99.0	0.0
Mortgage loan NPL	0.4	0.4			0.3		0.3		0.5	0.2
h-o-h change (bp)	0.0	9.0			5.0		(1.0)		9.0	0.0

Source: Companies, DBS HK

Fig 11: HK banks' exposure to China property sector

	Exposure to C corporate		As of total lo	oan	NPL ratio in Chi	na CRE
	FY21	1H22	FY21	1H22	FY21	1H22
HSBC	USD 21.3bn	USD 19.8bn	2.0%	1.9%	2.9%	5.0%
Standard Chartered	USD 4bn	USD 3.7bn	1.2%	1.3%	n.a	6.4%
Hang Seng Bank	HKD 75bn	HKD 66bn	7.5%	6.7%	4.0%	6.1%

Source: Companies, DBS HK

Developer loans: What's the current strategy?

Not expecting sharp y-o-y decline in property loan exposure, though the percentage does drop...We see less than 1ppt reduction of loan exposure to property-related corporate loans in 1H22 vs. FY21 and expect the trend to carry on into the future, according to our conversations with the banks. On one hand, it is likely that the property loan exposure will continue to see some decline, as banks are turning their focus to sectors like premium manufacturing, new infrastructure, new finance, etc., which show higher-than-average y-o-y growth, and remain cautious on the property sector. On the other hand, banks are still supporting reasonable financing demands from qualified developers, as guided by the government. In the mid to long term, the property sector would remain one of the key

segments of the China economy and is likely to remain an important part of the banks' balance sheets.

We have made a five-year estimation based on China banks' exposure to property (including both corporate loans and mortgage). Our assumption is a 3% CAGR for property sector loan growth in the next five years, which we believe is a conservative assumption, as it might be just in line or lower than China's GDP growth. Our assumptions on the CAGR of other sector loans for the next five years are lower than their y-o-y growth in 1H22 with increasing scale.

Under such assumptions (Fig 12), property sector loans as a % of total loans would decline from 25.7% in 1H22 to 17.8% in 2027, and our key takeaways are that 1) the property sector would remain an important part of the banks' balance sheets if there is low single-digit y-o-y growth

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in the next few years; 2) the average decline in property exposure as a % of total loans was c.1.5ppt each year, and we don't expect sharp declines on a y-o-y basis; and 3) the overall loan growth CAGR is 10.9% for the next few years, under our assumptions. The loan book can maintain reasonable growth, even if the property sector is slowing down.

Fig 12: Property remains important in the long run

	1H22 Rmb loan	1H22 y-o-y	5-yr growth CAGR	2027F Loan
Rmb tr	balance	growth	assumption	balance
Total	206.35		10.9%	345.8
Property	53.1	4.2%	3%	61.6
Industrial mid-long term loan	15.3	21.2%	18%	34.9
Infrastructure mid- long term loan	31.0	12.5%	10%	50.0
Inclusive financing	29.9	20.8%	15%	60.2
Green financing	19.6	40.4%	30%	72.6
Others	57.5		3%	66.7
Property loan as of total	25.7%			17.8%

Source: PBOC, DBS HK

...while banks are being more selective in choosing clients.

Though the overall exposure is not likely to see a sharp decline, we expect banks to be more selective when issuing corporate loans to property developers. Preference would be for those with stable operating cash flow and SOE developers with higher asset quality might be preferred to POE developers.

SOE banks may take more responsibility. There are recent media reports that six SOE banks are required by the PBOC to inject a total of Rmb600bn into the property sector over the last few months of this year, in the form of developer loans, secured loans, or by purchasing bonds issued by property developers. The banks have not yet confirmed this news through official channels.

A major investor concern would be a higher NPL ratio if banks are asked to support the property sector. We have made an estimation based on the six SOE banks' 1H22 number (Fig 13). The Rmb100bn accounts for 0.8%-4% of their total corporate loan book in 1H22, while property loans accounted for 5.3%-11.3% of total corporate loans. Using the NPL ratio for the property sector and all other sectors' average NPL ratio as the baseline of our assumptions, if the total corporate loan amount is unchanged and Rmb 100bn is shifted to the property sector from other sectors, we estimate the NPL ratio would increase by 0-4bps from the overall corporate loan NPL ratio in 1H22. We believe the impact would not be significant, especially if property loans are priced higher than the average rate of corporate loans.

Among the Big Six, CCB would be least impacted, in our estimation, as 1) Rmb 100bn would account for a small portion of its corporate loans and 2) its NPL ratio in the property sector is not in the higher end. In contrast, BOC would see the highest impact of 4bps on its NPL ratio, given it has the highest NPL ratio in the property sector of 5.7% in 1H22.

Fig 13: NPL ratio impact if SOE banks have to support the property sector

Six SOE banks	Total corporate loan 1H22 (Rmb bn)		as of total	100bn as of total corporate loan	Property	All other sectors avg NPL ratio	Corporate loan NPL ratio	
ABC	10,255	843	8.2%	1.0%	4.0%	2.0%	2.14%	2.16%
CCB	10,597	763	7.2%	0.9%	3.0%	2.1%	2.15%	2.15%
BOC	8,434	735	8.7%	1.2%	5.7%	1.7%	2.03%	2.07%
ICBC	13,310	708	5.3%	0.8%	5.5%	1.8%	2.03%	2.06%
BOCOM	4,369	494	11.3%	2.3%	1.3%	1.9%	1.86%	1.84%
PSBC	2,519	178	7.1%	4.0%	1.0%	0.5%	0.56%	0.58%

Source: Companies, DBS HK

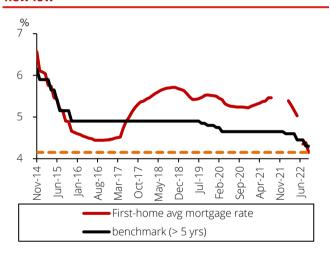




Mortgage: Can banks balance price, volume growth, and credit cost?

Mortgage rate declining sharply. According to a Beike Research report, the mainstream first-home mortgage rate in 103 cities was 4.15% and that of the second house was 4.91% (Fig 14). First-home average mortgage rates have dropped by more than 1% YTD. Both have reached a historically low level in the past eight years. This is in line with the declining LPR trend, which saw the LPR drop by 35bps YTD. At the end of Sep 2022, PBOC and CBIRC had also granted local governments of eligible cities the discretion to periodically adjust their first-home mortgage rate floors up to end-2022.

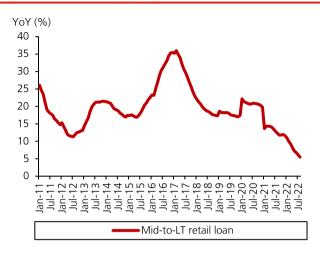
Fig 14: First-home average mortgage rate reaching new low



Source: Wind, DBS HK

Mortgage demand remains weak in 3Q22. Using mid to long-term retail loans as a proxy to mortgages, the y-o-y growth dropped from a double digit in FY21 to a mid-to-high single digit YTD (Fig 15). It further dropped to 5.5% in Aug. We see some marginal recovery in terms of lower drop in new increment in Sep. Residential mid to long term loan increased by Rmb 345bn. The increment is Rmb 120bn lower than the same period last year. With further cuts in mortgage pricing and the policies to stabilise the property market gradually taking effect, we expect some marginal recovery in 4Q22 and 2023, though it's unlikely that the property market and mortgage demand would recover to the previous year's level.

Fig 15: Weaker mortgage growth in 3Q22



Source: PBOC, DBS HK

Slight deterioration in asset quality in 3Q22. The delinquency ratio is a leading indicator of the NPL ratio. The monthly disclosure of the delinquency ratio of underlying assets of the MBSs issued by each bank offers a higher frequency monitor of the asset quality of mortgages.

Here we use PSBC, CCB, and CMB, which have the largest exposure to mortgages, as examples (Fig 16). As the delinquency ratio is an accumulated number (e.g. higher delinquency ratio for a longer period of the same product), we chose MBSs that have a similar duration from effective date to comparison period for an apple-to-apple comparison. For example, the PSBC 2022 Batch 1 MBS was issued in Jan 2022, and was issued by around 7 months in Sep 2022. The comparison we choose is PSBC 2019 Batch 1, which was issued in Dec 2019 and was issued by around 8 months in Sep 2020. We then compare the delinquency ratio of these two products in Sep 22 and Sep 20 respectively, to eliminate the impact on from seasonality and different duration from issuance date.

We found that the Aug-Sep delinquency ratio is higher in 2022 for most of the MBSs compared with the same period in previous years. The average gap between the >90 days delinquency ratio in Sep 2022 vs. that of previous years is 2bps, which is in line with 1H22's mortgage NPL ratio performance of 3bps NPL ratio increment h-o-h.

Following the weak asset quality in 1H22, we did not see a recovery in 3Q22. The uncertainties for the economic and property sector recovery, as well as the mortgage boycott in Jul, are likely to have a continuous negative impact on the NPL ratio in 2H22.



Fig 16: Higher mortgage delinquency ratio in 3Q22 indicated in the MBSs

				Deli	nquency rate			
MBS	Effective rate	Period	1-30 days	30-60 days	60-90 days	90-180days	Default	Total
PSBC 2022 Batch 1	1/27/2022	2022/8/26-2022/9/26	0.16%	0.06%	0.02%	0.04%	0.10%	0.38%
PSBC 2019 Batch 1	12/17/2019	2020/8/26-2020/9/26	0.12%	0.03%	0.01%	0.05%	0.15%	0.36%
CMB 2021 Batch 4	9/30/2021	2022/8/19-2022/9/19	0.08%	0.08%	0.06%	0.03%	0.01%	0.26%
CMB 2021 Batch 3	9/14/2021	2022/8/19-2022/9/19	0.06%	0.06%	0.09%	0.10%	0.07%	0.38%
CMB 2020 Batch 4	9/25/2020	2021/8/19-2021/9/19	0.00%	0.05%	0.00%	0.01%	0.00%	0.06%
CMB 2019 Batch 3	10/30/2019	2020/8/19-2020/9/19	0.07%	0.05%	0.02%	0.01%	0.03%	0.18%
CCB 2021 Batch 15	11/18/2021	2022/8/26-2022/9/26	0.22%	0.03%	0.04%	0.06%	0.09%	0.44%
CCB 2021 Batch 1	1/21/2021	2022/8/26-2022/9/26	0.32%	0.06%	0.08%	0.09%	0.32%	0.87%
CCB 2020 Batch 14	12/10/2020	2021/8/26-2021/9/26	0.28%	0.08%	0.11%	0.26%	0.13%	0.13%

Source: China Bond, DBS HK

How mortgage growth, rate, and asset quality affect banks NII growth and profitability? We have done a sensitivity analysis on how the mortgage rate and growth change would affect banks' NIM and NII growth. The table below (Fig 17) is based on the total mortgage loan book, NII, and interest-earning assets as of FY21 of the 10 China banks under our coverage, which is used as a proxy for the China banking sector. A similar analysis was done for each individual bank as well.

Key assumptions for FY22F are 1) mortgage growth of 8% yo-y: Assuming marginal recovery from c.6.2% y-o-y in 1H22 with stimulus policies in place; 2) Mortgage rate drop of 50bps: Based on a 35bps drop in the five-year LPR YTD and lower first-home mortgage rate; and 3) a 3bps increase in the NPL ratio: In line with the 1H22 trend when the NPL ratio increased by 3bps to 0.23%, as our estimations from the delinquency ratio are showing a trend in 3Q22 that is similar to that of 1H22. We assume a provision coverage of 200%, which was in line with China banks' overall provision coverage ratio for FY21, as reported by CBIRC.

Under these assumptions, our key findings are:

1) NIM sensitivity: The impact on NIM would be mainly from the repricing of existing mortgage loans. Using the FY21 data as the baseline for the estimation, we estimate that a 10bps mortgage rate drop would bring a c.1.9bps negative impact on NIM, and a 50bps rate drop would drag down NIM by 9.8bps. For individual banks (Fig 18), SOE banks like the Big Four and PSBC have relatively higher NIM sensitivity, as they have a higher exposure to mortgages. Again, CMB

has the highest NIM sensitivity to mortgages among the joint-stock banks.

2) NII and PBT impact: Under such assumptions, we expect mortgages to bring a c.3.3% y-o-y NII growth and contribute 5.8% of FY21 PBT. The negative NIM impact could be offset by volume growth. Provision costs will also be slightly higher and the total contribution to PBT is estimated to be c.Rmb 89bn, or 4.8% of total FY21 PBT.

This PBT estimation only considers the credit costs on the cost side, while not considering other costs such as staff, admin, and due diligence costs. We think other costs are likely to increase at a lower rate than mortgage revenue growth due to economies of scale.

We have also done a sensitivity analysis by changing our key assumptions on mortgage loan growth and the change in the NPL ratio. Assuming other cost increments from the mortgage business come to 5% of PBT (a slightly lower assumption than the NII contribution to PBT of 5.8%), the mortgage business would be profitable in half of the assumed scenarios (marked in red), especially if the volume growth could recover to higher than 8% y-o-y with the sharp rate decline. Still, it remains a product preferred by banks, with a long duration and relatively lower NPL ratio compared with other consumer loans, especially as the interest rate is declining for all loans.

Downward revise of existing mortgage rate? There are market speculations recently that existing mortgage rate could be revised down to the latest policy rate if its rate is





higher than 5.88%. Banks have not confirmed this news from official channels but there was similar news in 2009 that banks offered 30% discount in existing mortgage rate.

If 60% of the existing mortgage (e.g. outstanding balance in 2015+ new issuance in 2018/19 as of total) saw 158bps (5.88% vs current LPR of 4.3%) of rate cut and the remaining

40% and new mortgage have 50bps of rate cut, the estimated NIM drop would be c.21-22bps and NII would drop by c.2.4% from FY21's level. However, the real impact might be smaller than this as 1) our NIM calculation did not consider the decline in funding costs; and 2) the real scale of mortgage being repriced might be lower than our rough estimation of 60%.

Fig 17: Mortgage vs. NIM and NII sensitivity analysis

RMB (bn) if otherwise stated

Mortgage loan book in FY21	29,100
NII in FY21	3,315
NIM	2.07%
Average interest earnings assets in FY21	160,054

Mortgage loan growth rate	8%
Increase in mortgage loans that are	
repriced at lower rate	2,328
NIM drop assumption	50bps
NII in FY22F	3,422.64

y-o-y growth	3.3%
Increase in NPL ratio in 2022	0.03%
Provision coverage assumption	200%
Provision cost change	19
PBT contribution	89.17
Total FY21 PBT	1851.74
Contribution in PBT	4.8%

Sensitivity analysis (new mortgage loans priced at lower rates)

rate decrease (bps)	Change in NII	Change in NII	New NIM	Increase in NIM (bps)
-10 -20 -30 -40	(2.33) (4.66) (6.98) (9.31)	-0.1% -0.1% -0.2% -0.3%	2.07% 2.07% 2.07% 2.07%	-0.1 -0.3 -0.4 -0.6
-50	(11.64)	-0.4%	2.06%	-0.7

Sensitivity analysis (existing mortgage loans priced at lower rate:

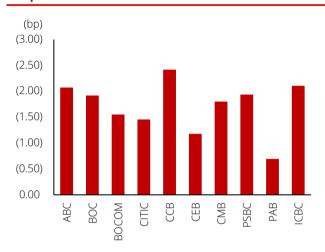
rate decrease (bps)	Change in NII	Change in NII	New NIM	Increase in NIM (bps)
-10	(29.10)	-0.9%	2.05%	-1.8
-20	(58.20)	-1.8%	2.03%	-3.6
-30	(87.30)	-2.6%	2.02%	-5.5
-40	(116.40)	-3.5%	2.00%	-7.3
-50	(145.50)	-4.4%	1.98%	-9.1

Sensitivity analysis on change in PBT:			Loan growth			
	4.8%	6%	7%	8%	9%	10%
	-0.03%	3.4%	5.1%	6.9%	8.6%	10.3%
	0.00%	2.4%	4.1%	5.8%	7.5%	9.3%
NPL ratio change	0.03%	1.4%	3.1%	4.8%	6.5%	8.2%
	0.06%	0.4%	2.1%	3.8%	5.5%	7.2%
	0.09%	-0.6%	1.1%	2.8%	4.5%	6.1%

Source: Companies, DBS HK



Fig 18: NIM sensitivity if mortgage rate drops by 10bps

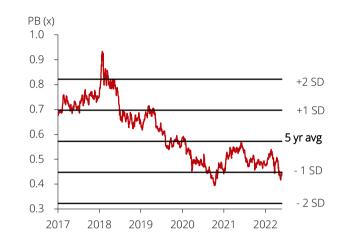


Source: Companies, DBS HK

Has the property market weakness been factored in the banks' valuation?

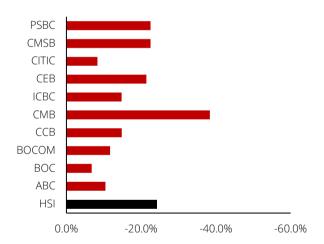
Trading below five-year average, -1SD now. The sector is now trading at an average of c.0.35x forward P/B, almost around it five-year low (Fig 19), while the five-year average is around c.0.57x P/B. Of course, most of the HK-listed sectors are trading around the five-year low now. Most of the China banks, except for CMB, are still outperforming the HSI YTD. But the question we want to answer here is, is there any chance that the sector would be re-rated to its five-year average, or would a lower valuation be the new normal? If the latter is true, has the current valuation already priced in the negatives?

Fig 19: Sector valuation almost around five-year low



Source: Bloomberg Finance L.P., DBS HK, Based on 7 Oct closing

Fig 20: China banks' stock performance YTD



Source: Bloomberg Finance L.P., DBS HK, Based on Oct 7 closing

We believe the negative impacts from the property sector are largely priced in now. The five-year average P/B was 0.57x and the average ROE of the banks we cover was c.12.4% for the past five years. With the assumption of a long-term ROE of 10% and terminal growth rate of 3%, we get an implied cost of equity (COE) of c.15%, derived from the past five-year trading P/B.

Using the same COE of 15% and a lower terminal growth of 0% to reflect the economic uncertainties, the ROE derived from the current valuation of 0.35x P/B is 5.3%, which, we

China Banking Sector



see, is already a very pessimistic assumption, as it's around or lower than the level at which the US banks (e.g. Citi, JP Morgan, and Wells Fargo) were trading during the post-crisis years of 2009-2011.

Based on our previous analysis that 1) the bank loan book could maintain a reasonable growth level, even with the property sector slowing down; 2) mortgage remains a profitable business for banks if growth could recover to the high single-digit level; and 3) the NPL impact is not significant, even if SOE banks have to support the property sector, we don't expect a high ROE drop, even in the long run

As mentioned, the banking sector's share performance YTD was largely correlated with the property sector's performance, which means that investors may neglect to consider banks' profitability arising from exposure to other industries, such as new infrastructure, green finance, premium manufacturing, etc., that have higher growth and a better asset quality than the property sector.

Fig 21: Implied ROE of 5.3% at current valuation

		ition from 5-yr aluation	Implication from current valuation			
P/B	0.57	5-yr average	0.35	current valuation		
ROE	10%	5-yr average at	5.3%	Derived from		
		12.4%		other parameters		
Cost of equity	15%	Derived from	15%	COE derived from		
		other parameters		5-yr average level		
Terminal growth	3%	Assumption	0%	Assumptions		

Source: Bloomberg Finance L.P., DBS HK

However, we maintain a neutral outlook on the share price in the short term. We see a long-term buying opportunity for China banks, but the short-term volatility may remain before we see more signals of a recovery of the China property sector and economy. Property sales showed limited improvement during the national holiday week.

In the near term, we prefer more defensive names like Big Four as 1) relatively lower valuation among peers and >10% dividend yield; 2) NPL impact controllable even if they are asked to inject more liquidity to developers; and 3) NPL risk in property sector has been largely exposed, especially for BOC and ICBC. Among the Big Four, we currently prefer BOC (3988 HK, BUY, TP HKD 3.85) as 1) its NIM sensitivity on mortgage rate change is the lowest among Big Four; and 2) its international exposure diversifies risks and could benefit more from USD interest rate upward cycle.

We maintain our preference on the oversold quality names such as PSBC (1658 HK) in the mid-long term with BUY and TP at HKD 7.4. Investors are worried about its mortgage exposure, but we found that its NIM impact from mortgages is no higher than that of the Big Four. Additionally, robust fee growth, especially in rural areas, would be a new growth driver.





Peers valuation

															FY21-23
			Target		Mkt		PE	PE	Yield	Yield	P/Bk	P/Bk	ROE	ROE	Earnings
		Price	_	Recom	Сар	Fiscal	22F	23F	22F	23F	22F	23F	22F	23F	CAGR
Company Name	Code	Local\$	Local\$		US\$m	Yr	х	х	%	%	х	х	%	%	%
H-share banks															
China Con.Bank 'H'*	939 HK	4.41	8.00	BUY	142,427	Dec	3.3	3.0	9.4	10.2	0.4	0.3	12.5	12.5	6.2
Bank Of China 'H'*	3988 HK	2.55	3.85	BUY	116,827	Dec	3.2	3.1	9.8	10.2	0.3	0.3	10.8	10.5	4.1
Agricultural Bk.Of Chin. 'H'*	1288 HK	2.31	3.10	HOLD	136,396	Dec	3.2	3.0	10.0	10.5	0.3	0.3	10.9	10.6	3.8
Bank Of Comms.'H'*	3328 HK	4.05	5.70	BUY	43,302	Dec	3.2	3.0	9.9	10.5	0.3	0.3	10.4	10.3	5.1
China Merchants Bank 'H'*	3968 HK	30.10	63.70	BUY	103,607	Dec	5.3	4.5	6.3	7.3	0.8	0.7	17.9	17.3	14.9
China Citic Bank 'H'*	998 HK	3.10	3.60	HOLD	27,868	Dec	2.5	2.3	11.2	12.2	0.2	0.2	11.0	11.3	6.3
China Everbright Bk.'H'*	6818 HK	2.10	2.40	HOLD	21,877	Dec	2.6	2.4	10.8	11.4	0.3	0.2	10.4	10.2	4.7
China Minsheng Banking 'H'	1988 HK	2.27	n.a.	NR	19,223	Dec	3.0	2.9	9.8	10.1	0.2	0.2	6.0	6.0	1.3
Chongqing Rur.Coml.Bk. 'H'	3618 HK	2.55	n.a.	NR	5,282	Dec	2.5	2.3	11.1	11.8	0.2	0.2	9.8	10.0	8.8
Postal Savings Boc.'H'*	1658 HK	4.04	7.40	BUY		Dec	4.3	3.7	7.5	8.6	0.5	0.5	12.1	12.9	14.1
Indl&Coml.Boc.'H'*	1398 HK	3.61	6.10		203,499	Dec	3.3	3.1	9.4	9.9	0.4	0.3	11.7	11.3	5.5
					,										
A-share banks															
China Con.Bank 'A'*	601939 CH	5.5	7.00	BUY	142,427	Dec	4.4	4.1	6.9	7.5	0.5	0.5	12.5	12.5	6.2
Bank Of China 'A'*	601988 CH	3.05	3.40		116,827	Dec	4.2	4.0	7.5	7.9	0.4	0.4	10.9	10.6	4.7
Agricultural Bank Of China 'A'*	601288 CH	2.86	3.20		136,396	Dec	4.3	4.1	7.4	7.8	0.5	0.4	10.9	10.6	3.8
Bank Of Comms.'A'*	601328 CH	4.61	5.20		43,302	Dec	4.0	3.8	8.0	8.4	0.4	0.4	10.4	10.3	5.1
China Merchants Bank 'A'*	600036 CH	29.89	51.80		103,607	Dec	5.7	4.9	5.8	6.7	0.9	0.8	17.9	17.3	14.9
China Citic Bank 'A'*	601998 CH	4.63	4.40	HOLD	27,868	Dec	4.2	3.8	6.9	7.4	0.4	0.3	11.0	11.3	6.3
China Everbright Bk.'A'*	601818 CH	2.81	2.40	HOLD	21,877	Dec	3.8	3.6	7.4	7.8	0.4	0.4	10.4	10.2	4.7
China Minsheng Banking 'A'	600016 CH	3.40	n.a.	NR	19,223	Dec	4.8	4.7	6.1	6.2	0.3	0.3	6.0	6.0	1.5
CQ Rural Commercial Bank 'A'	601077 CH	3.62	n.a.	NR	5,282	Dec	3.9	3.5	7.4	8.0	0.4	0.3	9.8	10.0	10.6
Postal Savings Bank Of China 'A'*	601658 CH	4.17	6.80	BUY	52,404	Dec	4.8	4.2	6.6	7.6	0.6	0.5	12.1	12.9	14.1
Bank Of Shai. 'A'	601229 CH	5.92	n.a.	NR	11,731	Dec	3.7	3.4	8.0	8.7	0.4	0.4	11.6	11.7	7.2
Ping An Bank 'A'*	000001 CH	11.34	15.90	BUY	30,694	Dec	5.6	4.6	2.3	2.8	0.6	0.5	11.5	12.7	20.1
Industrial & Coml.Bk.Of China 'A'*		4.35	5.40		203,499	Dec	4.3	4.1	7.1	7.5	0.5	0.4	11.7		5.5
Industrial & Comi. Bk. Of China A	001390 CIT	4.33	3.40	БОТ	203,433	Dec	4.5	4.1	7.1	7.5	0.5	0.4	11.7	11.5	٥.٥
HK banks															
Hang Seng Bank*	11 HK	117 40	150.00	BUY	28,596	Dec	17.7	11.6	3.9	6.1	1.2	1.2	6.9	10.3	18.6
Boc Hong Kong Holdings*	2388 HK	25.70	34.10	BUY	34,617	Dec	9.9	7.7	5.3	6.7	0.9	0.8	9.0	11.0	23.8
Bank Of East Asia	23 HK	8.28	n.a.	NR	2,843	Dec	6.6	4.9	8.5	9.4	0.2	0.2	3.1	4.3	2.6
Dah Sing Banking Gp.	2356 HK	5.13	n.a.	NR	919	Dec	3.2	3.6	8.8	8.4	0.2	0.2	9.0	7.1	9.5
שמוז אווק שמווגוווק שף.	25501110	5.15	n.a.	INIX	212	Dec	٥.۷	5.0	0.0	0.4	0.2	0.2	5.0	7.1	5.5
ASEAN banks															
Oversea-Chinese Bkg.	OCBC SP	11.59	15.00	BUY	36,574	Dec	9.1	8.0	5.1	5.7	1.0	0.9	10.7	11.6	16.1
United Overseas Bank	UOB SP	26.15	34.20	BUY	30,815	Dec	10.0	8.2	4.9	5.9	1.0	1.0	10.7	12.2	15.8
Rhb Bank Bhd	RHBBANK MK	5.49	6.00	BUY	4,928	Dec	8.7	7.1	6.1	7.2	0.8	0.7	9.0	10.5	10.3
Public Bank	PBK MK	4.17	4.45	HOLD			13.7		3.9	4.5	1.6		11.8	13.1	11.0
PUDIIC DALIK	PDN IVIN	4.17	4.45	ПОГР	17,249	Dec	15.7	11.0	5.9	4.5	1.0	1.5	11.0	13.1	11.0
Global banks															
Bank Of America	BAC US	31.69	n.a.	VID	254,637	Doc	10.0	8.6	2.8	3.0	1.0	0.9	10.6	11.3	(1.6)
Citigroup	C US	42.95			83,182	Dec		6.4	4.8	4.9	0.5	0.9	7.6	6.9	(20.0)
Jp Morgan Chase & Co.	JPM US	109.37	n.a.		321,225			8.8	3.7	3.8	1.2	1.1	12.5	13.2	(20.0)
Standard Chartered (Hkg)*		46.5	n.a.		17,148	Dec					0.3		5.2	6.0	33.6
, 0,	2888 HK		58.30					5.2	1.6	2.7		0.3			
HSBC Holdings*	5 HK	38.75	63.90	RUY	98,573	Dec	8.3	5.3	6.1	9.4	0.5	0.4	7.8	8.6	21.7

Source: Thomson Reuters, *DBS HK

China Banking Sector



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BUY (>15% total return over the next 12 months for small caps, >10% for large caps)

HOLD (-10% to +15% total return over the next 12 months for small caps, -10% to +10% for large caps)

FULLY VALUED (negative total return, i.e., > -10% over the next 12 months)

SELL (negative total return of > -20% over the next 3 months, with identifiable share price catalysts within this time frame)

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